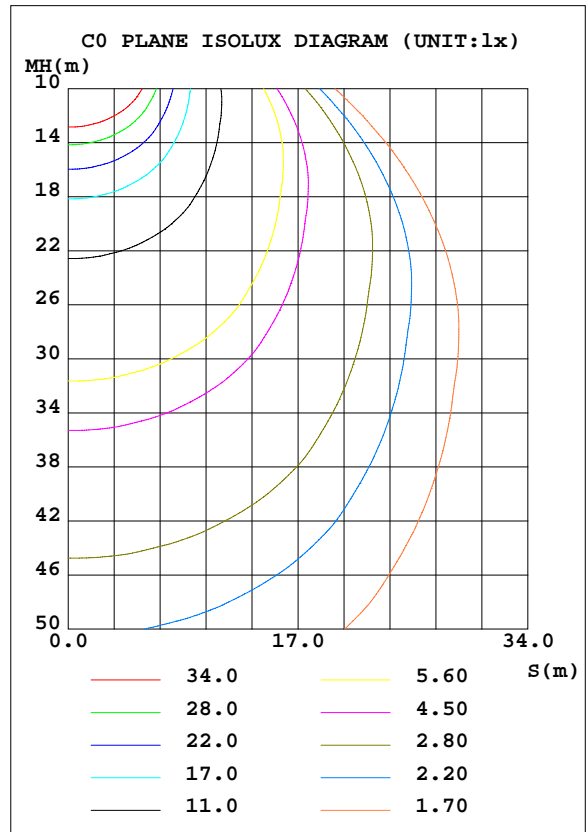
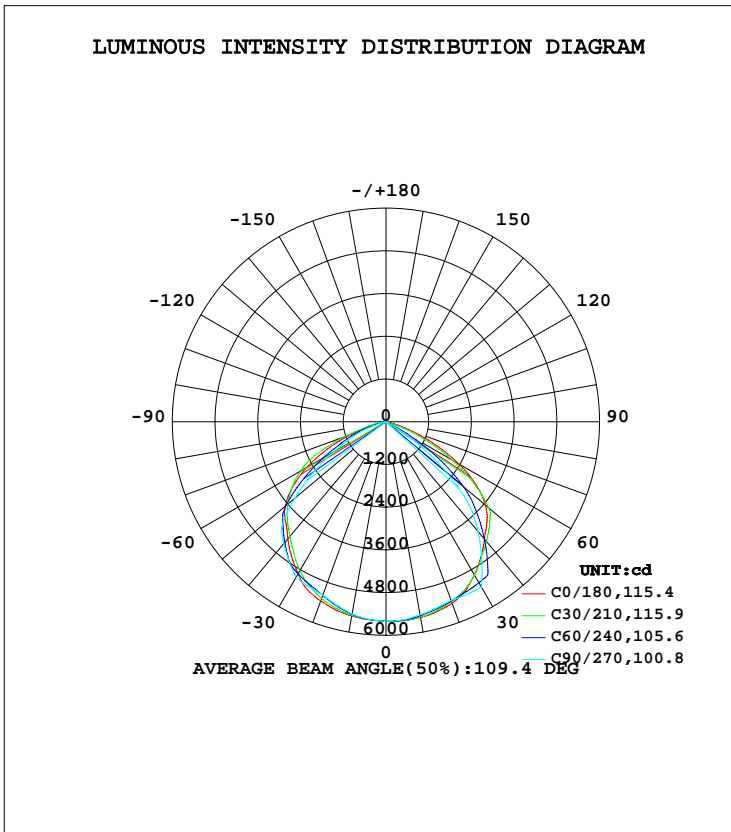


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.03 lm/W			
MODEL		I _{max} (cd)	5611	S/MH(C0/180)	1.30
NOMINAL POWER(W)	120	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	14210	η UP, DN(C0-180)	0.0,47.3
NOMINAL FLUX(lm)	14209.8	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,52.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	5611	5600	5584	5581	5584	5575	5569	5594	0- 5	133.8	133.8	0.94,0.94
10	5584	5549	5508	5521	5541	5501	5483	5530	5- 10	397.6	531.3	3.74,3.74
15	5521	5467	5423	5420	5471	5386	5334	5426	10- 15	650.0	1181	8.31,8.31
20	5429	5356	5338	5301	5361	5225	5184	5265	15- 20	885.1	2066	14.5,14.5
25	5257	5215	5352	5165	5212	5035	5117	5081	20- 25	1100	3167	22.3,22.3
30	4962	5069	5366	5030	4936	4844	5050	4877	25- 30	1291	4458	31.4,31.4
35	4646	4891	4691	4872	4620	4639	4759	4649	30- 35	1435	5893	41.5,41.5
40	4309	4603	4016	4621	4289	4376	4467	4380	35- 40	1507	7401	52.1,52.1
45	4008	3932	3300	4038	3984	4010	4121	4002	40- 45	1524	8925	62.8,62.8
50	3641	3253	2253	3496	3693	3651	3341	3597	45- 50	1476	10401	73.2,73.2
55	3086	2548	1165	2909	3205	3237	2507	3163	50- 55	1318	11719	82.5,82.5
60	2350	1573	76.77	1833	2576	2466	1673	2328	55- 60	1051	12770	89.9,89.9
65	1537	587.4	55.49	702.1	1811	1664	1133	1451	60- 65	723.0	13493	95,95
70	799.9	38.82	34.20	57.97	1056	980.8	592.9	766.2	65- 70	437.3	13930	98,98
75	238.3	20.83	14.85	33.47	444.5	464.2	105.2	365.1	70- 75	203.7	14134	99.5,99.5
80	18.74	6.657	10.92	13.31	37.51	39.94	38.70	37.22	75- 80	55.99	14190	99.9,99.9
85	9.095	7.877	8.929	10.94	10.18	25.41	24.82	24.02	80- 85	13.23	14203	100,100
90	9.608	9.139	6.934	8.615	7.068	11.10	10.95	11.12	85- 90	6.743	14210	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 8924.8 lm

%lum = 62.8%
%lamp = 62.8%

Conical surface Flux(120deg): 12770 lm

%lum = 89.9%
%lamp = 89.9%

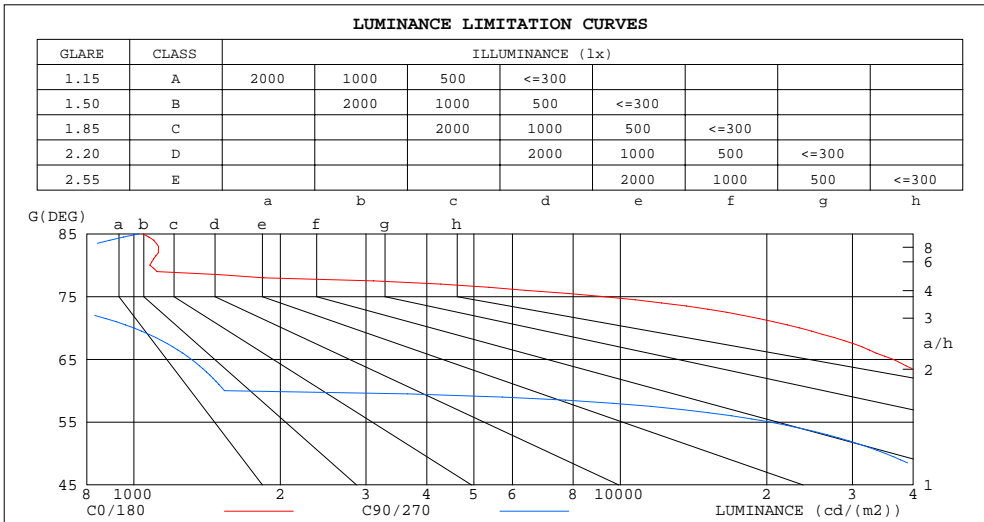
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-09-01

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1044	1024
80	1079	629
75	9207	574
70	23388	1000
65	36371	1313
60	47004	1535
55	53808	20311
50	56642	35054
45	56688	46671

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-01

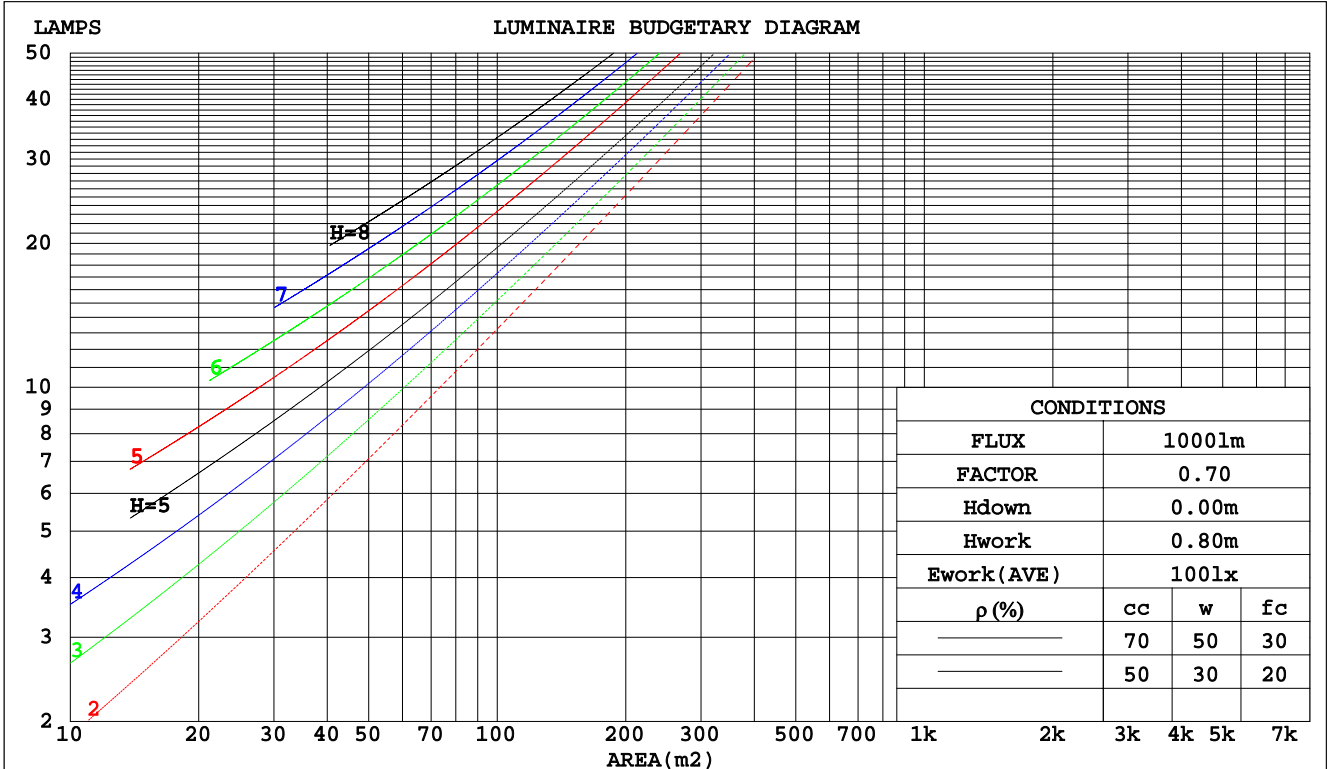
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm																

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.07	1.03	.00	1.04	1.01	.98	1.00	.98	.95	.96	.94	.92	.93	.91	.90	.88
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.77	.71	.83	.76	.70	.80	.74	.69	.77	.72	.68	.75	.70	.67	.65
4.0	.75	.67	.61	.74	.66	.61	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.67	.59	.53	.66	.58	.53	.64	.57	.52	.62	.56	.52	.61	.55	.51	.49
6.0	.61	.52	.46	.60	.52	.46	.58	.51	.46	.57	.50	.45	.55	.49	.45	.43
7.0	.55	.47	.41	.54	.47	.41	.53	.46	.41	.52	.45	.40	.50	.44	.40	.38
8.0	.50	.42	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
9.0	.46	.38	.33	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.31
10.0	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm															

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.255	.145	.046	.248	.142	.045	.235	.135	.043	.224	.129	.041	.213	.123	.040	
2.0	.251	.138	.042	.245	.135	.042	.234	.130	.040	.223	.125	.039	.214	.121	.038	
3.0	.239	.127	.038	.234	.125	.038	.224	.121	.037	.215	.118	.036	.206	.114	.035	
4.0	.226	.117	.035	.221	.116	.034	.212	.113	.034	.204	.110	.033	.197	.107	.033	
5.0	.212	.108	.031	.208	.107	.031	.200	.104	.031	.193	.102	.030	.186	.100	.030	
6.0	.200	.100	.029	.196	.099	.028	.189	.097	.028	.182	.095	.028	.176	.093	.028	
7.0	.188	.093	.026	.184	.092	.026	.178	.090	.026	.172	.088	.026	.167	.087	.025	
8.0	.177	.086	.024	.174	.086	.024	.168	.084	.024	.163	.082	.024	.158	.081	.024	
9.0	.167	.081	.023	.164	.080	.022	.159	.079	.022	.154	.077	.022	.150	.076	.022	
10.0	.157	.076	.021	.155	.075	.021	.151	.074	.021	.146	.073	.021	.142	.071	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.139	.151	.134	.119	.103	.092	.083	.059	.054	.048	.019	.017	.016	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.036	.018	.015	.012	
3.0	.159	.114	.079	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.130	.087	.054	.089	.061	.038	.052	.035	.022	.017	.012	.007	
5.0	.144	.090	.050	.124	.078	.043	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.137	.081	.041	.118	.071	.036	.082	.049	.025	.047	.029	.015	.015	.009	.005	
7.0	.131	.074	.035	.113	.065	.030	.078	.045	.021	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.030	.108	.060	.026	.075	.042	.018	.043	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.103	.055	.023	.071	.039	.016	.042	.023	.010	.013	.008	.003	
10.0	.114	.060	.023	.099	.052	.020	.068	.036	.014	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm										
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	26.9	28.3	27.1	28.5	28.7	23.2	24.6	23.5	24.8	25.0
3H	27.4	28.7	27.7	28.9	29.1	23.0	24.3	23.3	24.5	24.7
4H	27.3	28.6	27.7	28.8	29.1	22.9	24.1	23.2	24.4	24.6
6H	27.2	28.4	27.6	28.7	28.9	22.8	23.9	23.1	24.2	24.5
8H	27.2	28.3	27.5	28.6	28.9	22.7	23.8	23.1	24.1	24.4
12H	27.1	28.2	27.5	28.5	28.8	22.7	23.8	23.0	24.0	24.3
4H 2H	26.8	28.1	27.1	28.3	28.5	23.6	24.9	24.0	25.1	25.4
3H	27.4	28.4	27.7	28.7	29.0	23.4	24.5	23.8	24.8	25.1
4H	27.3	28.3	27.7	28.6	28.9	23.3	24.3	23.7	24.6	24.9
6H	27.3	28.1	27.6	28.4	28.8	23.3	24.1	23.7	24.4	24.8
8H	27.2	28.0	27.6	28.3	28.7	23.2	24.0	23.6	24.3	24.7
12H	27.2	27.9	27.6	28.3	28.7	23.2	23.9	23.6	24.3	24.7
8H 4H	27.2	28.0	27.6	28.3	28.7	23.3	24.0	23.7	24.4	24.8
6H	27.1	27.8	27.6	28.2	28.6	23.2	23.8	23.6	24.2	24.6
8H	27.1	27.6	27.5	28.1	28.5	23.1	23.7	23.6	24.1	24.6
12H	27.0	27.5	27.5	28.0	28.4	23.1	23.6	23.6	24.0	24.5
12H 4H	27.2	27.9	27.6	28.3	28.7	23.2	23.9	23.6	24.3	24.7
6H	27.1	27.6	27.5	28.1	28.5	23.1	23.7	23.6	24.1	24.6
8H	27.0	27.5	27.5	28.0	28.4	23.1	23.6	23.6	24.0	24.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.5					+ 1.8 / - 3.5				
1.5H	+ 0.8 / - 1.2					+ 0.8 / - 1.2				
2.0H	+ 1.0 / - 1.5					+ 2.9 / -18.4				

CIE Pub.117 Corrected 14210 lm Total Lamp Luminous Flux. (8log(F/F0) = 9.2)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm		

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	50	43	60	50	43	59	49	43	37
0.80	72	61	54	71	61	54	69	60	54	47
1.00	81	71	64	80	70	64	78	71	63	57
1.25	88	79	72	87	78	72	84	77	71	65
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	92	86	97	91	86	94	89	84	77
2.50	102	96	91	100	95	90	97	92	88	80
3.00	105	100	95	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	107	103	108	105	102	104	101	99	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

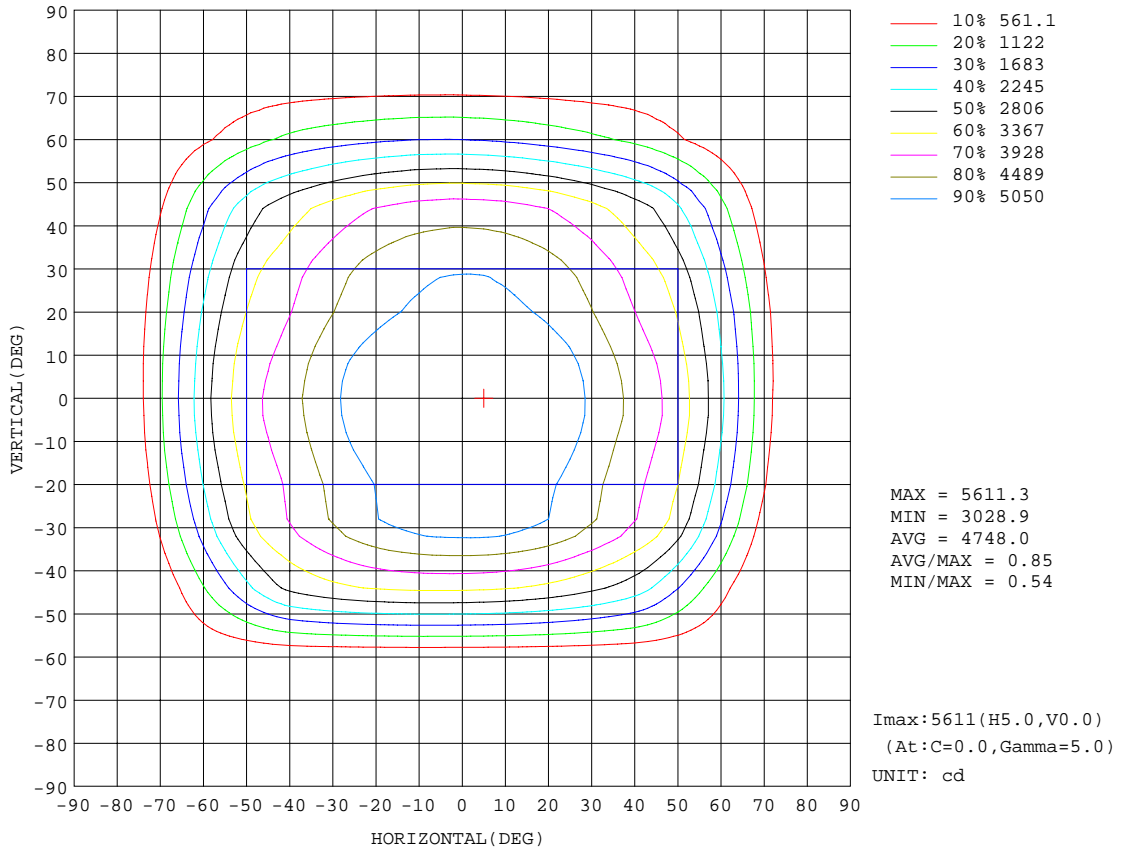
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

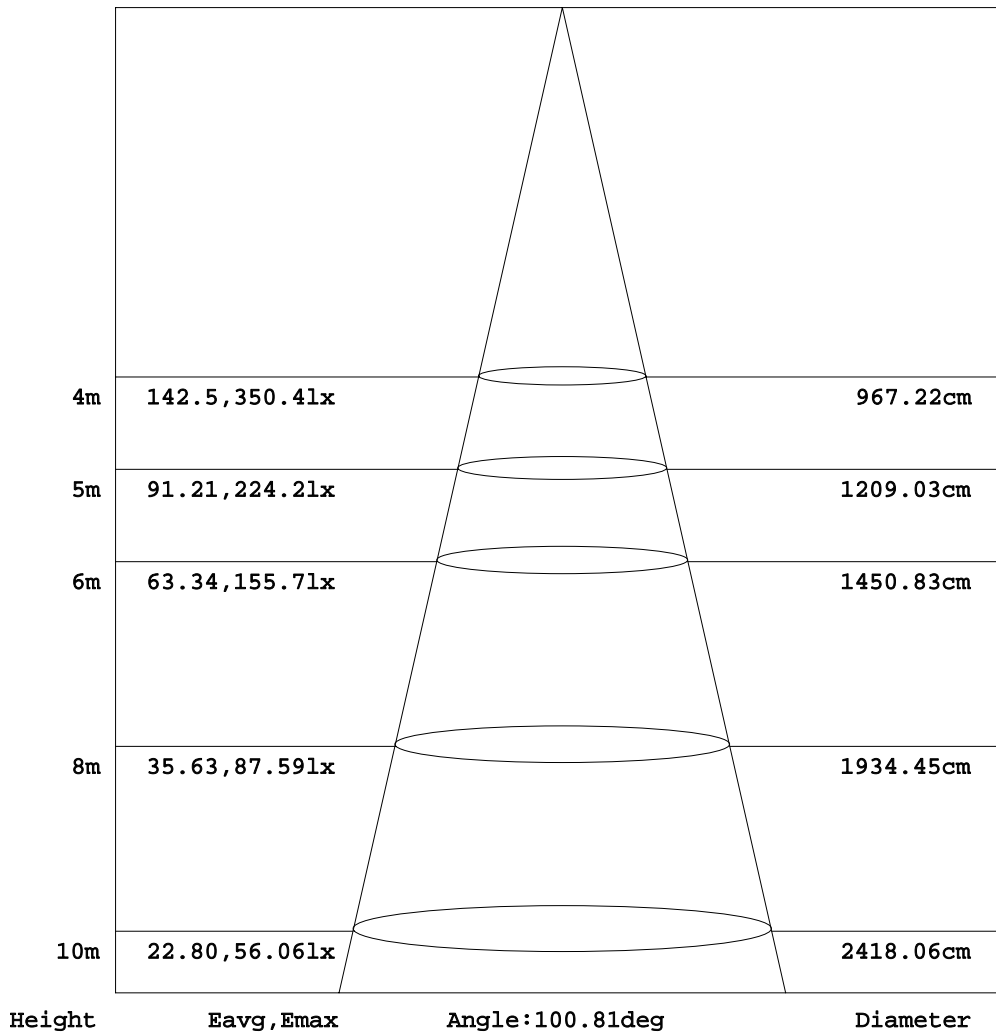
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm		

Flux out:10542 lm



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

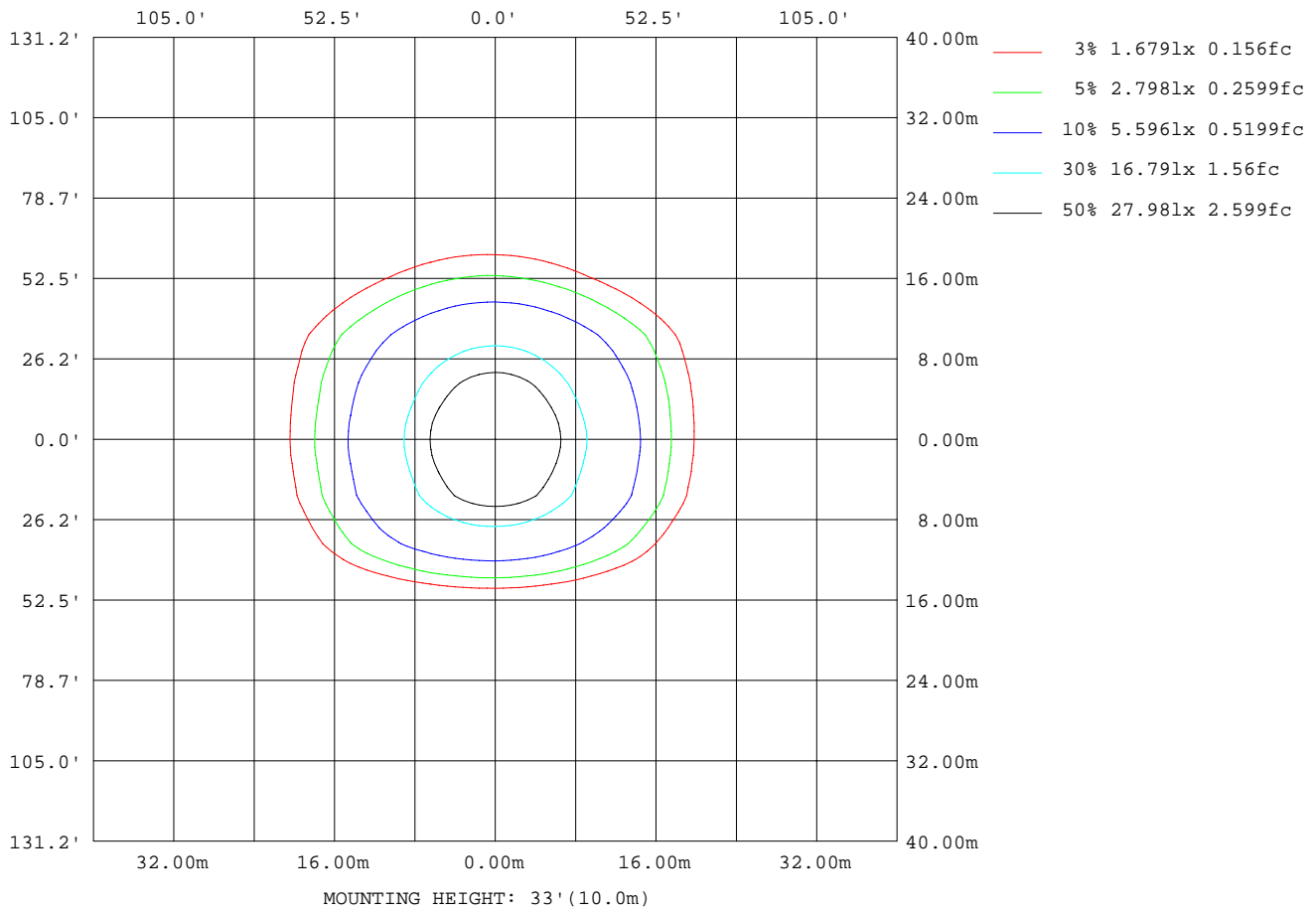
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm		

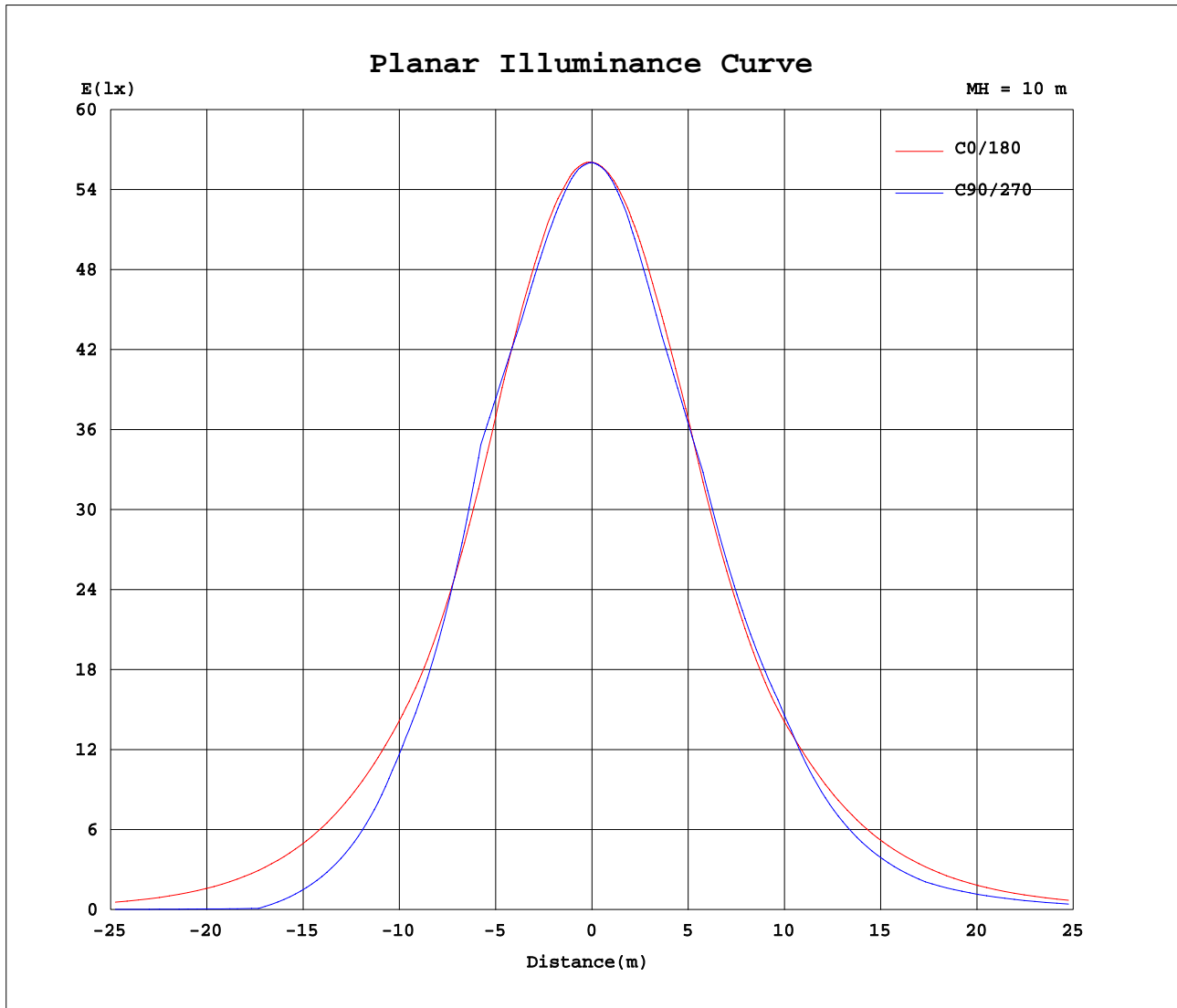
AvgL	cd/m2
L_0~180(65)av	39606
L_0~180(75)av	13191
L_0~180(85)av	1106
L_90~270(65)av	14063
L_90~270(75)av	2319
L_90~270(85)av	1936
L_45(65)av	26060
L_45(75)av	8535
L_45(85)av	1957

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm																			

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604
5	5611	5610	5608	5607	5606	5604	5603	5602	5601	5600	5599	5597	5594	5592	5589	5588	5586	5585	5584
10	5584	5581	5579	5578	5576	5574	5568	5563	5556	5549	5543	5538	5535	5530	5526	5523	5521	5514	5508
15	5521	5520	5520	5522	5516	5506	5492	5482	5474	5467	5459	5453	5447	5443	5443	5439	5434	5429	5423
20	5429	5426	5426	5419	5405	5392	5380	5366	5359	5356	5357	5360	5361	5358	5355	5354	5350	5342	5338
25	5257	5257	5260	5249	5232	5220	5213	5212	5213	5215	5226	5253	5284	5311	5329	5343	5356	5356	5352
30	4962	4965	4969	4960	4958	4959	4972	4990	5020	5069	5123	5174	5221	5268	5309	5337	5361	5371	5366
35	4646	4647	4639	4627	4627	4641	4667	4734	4811	4891	4978	5067	4990	4897	4828	4770	4730	4705	4691
40	4309	4309	4286	4277	4288	4315	4384	4480	4577	4603	4490	4390	4298	4214	4141	4084	4044	4023	4016
45	4008	4012	3981	3967	3974	4017	4112	4225	4069	3932	3803	3701	3607	3523	3452	3395	3336	3303	3300
50	3641	3649	3610	3614	3656	3727	3763	3558	3399	3253	3132	3012	2855	2672	2519	2399	2313	2263	2253
55	3086	3083	3058	3113	3159	3211	3008	2859	2722	2548	2291	2039	1814	1618	1455	1327	1234	1180	1165
60	2350	2334	2325	2359	2411	2270	2143	2043	1857	1573	1280	1015	775	566	392	255	156	96.2	76.8
65	1537	1522	1532	1529	1448	1345	1251	1102	875	587	282	59.6	58.0	55.7	55.3	54.7	55.3	55.0	55.5
70	800	772	741	692	616	596	492	280	38.9	38.8	38.7	38.5	37.0	35.2	34.7	34.0	34.1	33.8	34.2
75	238	188	157	88.6	155	113	24.1	23.4	22.5	20.8	19.3	17.7	16.0	14.8	14.2	14.3	14.4	14.5	14.8
80	18.7	18.3	18.4	17.3	15.3	13.8	11.9	9.58	7.77	6.66	6.96	7.33	7.91	8.77	9.58	10.1	10.4	10.6	10.9
85	9.10	10.6	9.95	9.30	7.46	7.24	7.37	7.61	7.79	7.88	7.90	7.91	8.00	8.26	8.52	8.67	8.72	8.76	8.93
90	9.61	10.4	10.1	9.70	9.24	9.11	9.24	9.37	9.33	9.14	8.87	8.54	8.16	7.80	7.50	7.25	7.06	6.92	6.93

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Temperature:25DEG	Humidity:65.0%
Operators:	Test Distance:7.850m [K=1.0000]
Test Date:2016-09-01	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm		

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604
5	5584	5585	5584	5583	5583	5583	5584	5583	5581	5580	5579	5579	5579	5580	5580	5582	5583	5584	5582
10	5507	5506	5508	5510	5510	5510	5513	5517	5521	5524	5527	5528	5531	5532	5533	5534	5537	5541	5536
15	5424	5425	5424	5421	5419	5416	5414	5416	5420	5427	5434	5441	5450	5456	5463	5464	5466	5471	5464
20	5341	5341	5335	5330	5317	5311	5310	5305	5301	5303	5306	5314	5324	5338	5350	5356	5357	5361	5352
25	5351	5340	5325	5296	5267	5236	5197	5169	5165	5160	5157	5156	5162	5177	5191	5201	5204	5212	5197
30	5361	5343	5320	5282	5238	5188	5139	5087	5030	4975	4948	4935	4931	4932	4931	4934	4931	4936	4925
35	4704	4732	4776	4831	4901	4983	5051	4960	4872	4791	4712	4649	4619	4606	4607	4611	4617	4620	4606
40	4034	4071	4124	4190	4271	4359	4446	4532	4621	4566	4467	4370	4288	4262	4261	4271	4284	4289	4268
45	3327	3387	3477	3557	3650	3750	3850	3945	4038	4136	4219	4105	4011	3943	3940	3963	3983	3984	3955
50	2283	2357	2472	2627	2825	3066	3264	3394	3496	3592	3692	3801	3757	3679	3658	3665	3688	3693	3662
55	1191	1261	1372	1525	1722	1966	2252	2582	2909	3077	3139	3218	3340	3277	3201	3176	3193	3205	3177
60	98.4	163	268	417	609	849	1135	1464	1833	2209	2469	2501	2559	2662	2573	2538	2552	2576	2553
65	56.7	59.4	60.9	62.9	65.1	68.0	75.5	336	702	1069	1382	1620	1708	1761	1823	1791	1796	1811	1824
70	35.2	37.2	38.7	40.3	43.0	45.6	52.1	56.0	58.0	57.7	362	669	866	936	988	1024	1043	1056	1085
75	15.5	16.5	17.4	18.3	20.5	23.2	27.3	30.8	33.5	34.7	37.8	52.9	182	306	280	353	395	445	484
80	11.4	11.9	12.2	12.3	12.5	12.8	13.0	13.2	13.3	14.7	17.6	24.1	18.7	19.1	31.7	25.0	26.0	37.5	79.5
85	9.24	9.61	9.83	9.92	10.1	10.3	10.5	10.8	10.9	10.8	10.4	9.93	9.28	8.81	10.3	10.8	10.7	10.2	14.3
90	7.09	7.34	7.47	7.49	7.59	7.78	8.05	8.39	8.62	8.64	8.62	8.41	8.15	8.02	8.31	8.63	8.88	7.07	7.02

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:25DEG Operators: Test Date:2016-09-01	γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350 Humidity:65.0% Test Distance:7.850m [K=1.0000] Remarks:
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm																	

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604
5	5580	5578	5577	5576	5575	5575	5575	5575	5575	5575	5574	5573	5573	5573	5573	5571	5569	5572	5575
10	5532	5529	5527	5525	5519	5514	5507	5501	5494	5489	5488	5488	5484	5483	5485	5484	5483	5488	5487
15	5459	5456	5448	5437	5423	5412	5400	5386	5373	5361	5353	5343	5339	5339	5335	5334	5334	5339	5344
20	5346	5335	5318	5304	5286	5260	5241	5225	5212	5203	5196	5188	5183	5184	5186	5183	5184	5192	5201
25	5186	5168	5151	5122	5088	5063	5047	5035	5029	5039	5057	5070	5082	5094	5106	5113	5117	5122	5122
30	4920	4909	4890	4859	4834	4812	4817	4844	4872	4904	4934	4966	4987	5012	5028	5042	5050	5050	5043
35	4591	4574	4537	4519	4511	4540	4590	4639	4692	4744	4752	4752	4751	4751	4751	4756	4759	4757	4758
40	4245	4210	4181	4163	4202	4261	4320	4376	4402	4413	4422	4433	4449	4453	4456	4466	4467	4459	4456
45	3925	3865	3838	3858	3916	3988	3992	4010	4038	4073	4096	4113	4134	4157	4131	4126	4121	4113	4125
50	3640	3592	3568	3574	3600	3605	3621	3651	3693	3713	3680	3578	3495	3439	3384	3356	3341	3337	3360
55	3161	3167	3205	3243	3224	3225	3256	3237	3117	2982	2863	2761	2676	2615	2561	2528	2507	2501	2515
60	2556	2595	2684	2718	2771	2808	2651	2466	2309	2173	2050	1946	1862	1791	1739	1700	1673	1664	1668
65	1864	1954	2014	2128	2128	1981	1825	1664	1512	1388	1326	1273	1235	1196	1172	1149	1133	1124	1118
70	1145	1229	1348	1355	1258	1117	1016	981	922	852	787	734	689	650	625	604	593	591	595
75	549	623	649	586	535	540	512	464	397	323	254	195	149	130	118	109	105	106	113
80	129	163	176	198	179	131	77.9	39.9	40.0	40.0	39.9	39.6	39.2	38.8	39.3	39.2	38.7	38.2	38.2
85	16.4	22.2	22.5	22.4	23.4	24.3	25.0	25.4	25.6	25.6	25.5	25.4	25.1	24.9	25.2	25.1	24.8	24.6	24.6
90	7.54	8.48	9.36	9.91	10.4	10.8	11.0	11.1	11.2	11.2	11.2	11.1	11.1	11.0	11.0	11.0	10.9	10.9	11.0

C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 5.0DEG γ Interval: 0.5DEG
 Test Speed: HIGH Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Temperature: 25DEG Humidity: 65.0%
 Operators: Test Distance: 7.850m [K=1.0000]
 Test Date: 2016-09-01 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.9811A P:117.4W PF:0.9929 Lamp Flux:14209.8x1 lm

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604	5604				
5	5578	5581	5584	5586	5589	5592	5594	5597	5599	5600	5601	5603	5605	5607	5609				
10	5490	5498	5507	5510	5515	5522	5530	5538	5546	5552	5559	5564	5568	5573	5578				
15	5355	5360	5367	5377	5392	5409	5426	5444	5456	5471	5487	5499	5508	5510	5514				
20	5207	5210	5219	5229	5238	5249	5265	5287	5311	5338	5356	5378	5401	5414	5420				
25	5112	5104	5096	5084	5072	5072	5081	5094	5112	5133	5166	5197	5219	5237	5245				
30	5019	5003	4981	4957	4931	4906	4877	4852	4851	4862	4875	4899	4920	4939	4949				
35	4754	4756	4761	4759	4759	4699	4649	4605	4563	4542	4541	4554	4584	4611	4633				
40	4453	4440	4428	4421	4404	4389	4380	4339	4273	4223	4199	4205	4226	4261	4292				
45	4145	4116	4093	4079	4045	4017	4002	3976	3978	3914	3876	3872	3899	3949	3992				
50	3399	3453	3534	3636	3675	3654	3597	3581	3568	3577	3563	3556	3565	3579	3619				
55	2546	2594	2673	2765	2888	3021	3163	3179	3155	3144	3156	3113	3084	3049	3065				
60	1694	1733	1808	1896	2018	2156	2328	2520	2672	2618	2549	2515	2441	2382	2352				
65	1122	1121	1137	1154	1172	1292	1451	1618	1773	1907	1875	1781	1706	1632	1565				
70	610	626	653	686	720	754	766	745	867	1002	1095	1084	979	904	843				
75	124	139	176	224	276	326	365	373	365	325	367	442	416	350	301				
80	38.4	38.6	38.7	38.7	38.5	38.0	37.2	62.4	92.7	109	99.8	70.9	74.4	42.3	23.0				
85	24.7	24.8	24.9	24.9	24.8	24.5	24.0	23.2	21.9	20.5	18.9	17.3	15.4	13.9	12.4				
90	11.0	11.1	11.1	11.2	11.2	11.2	11.1	11.0	10.6	10.2	9.64	8.95	8.23	7.85	7.85				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

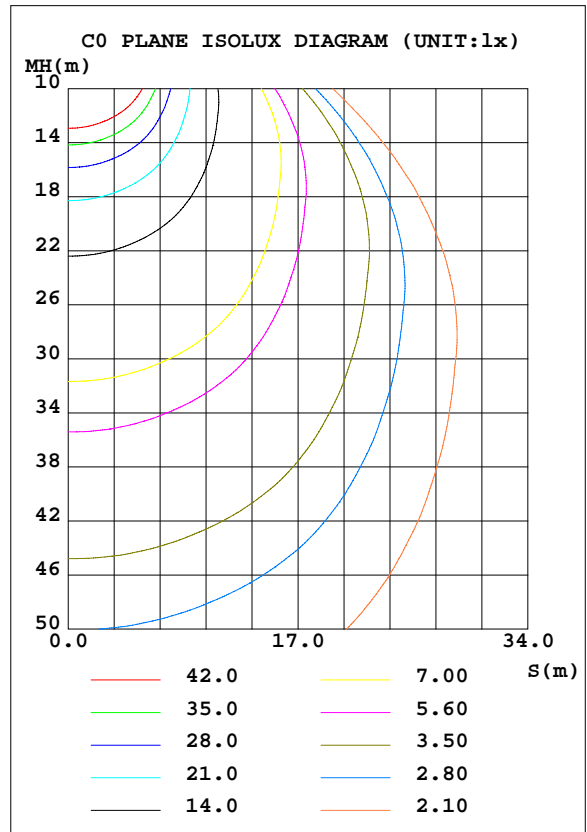
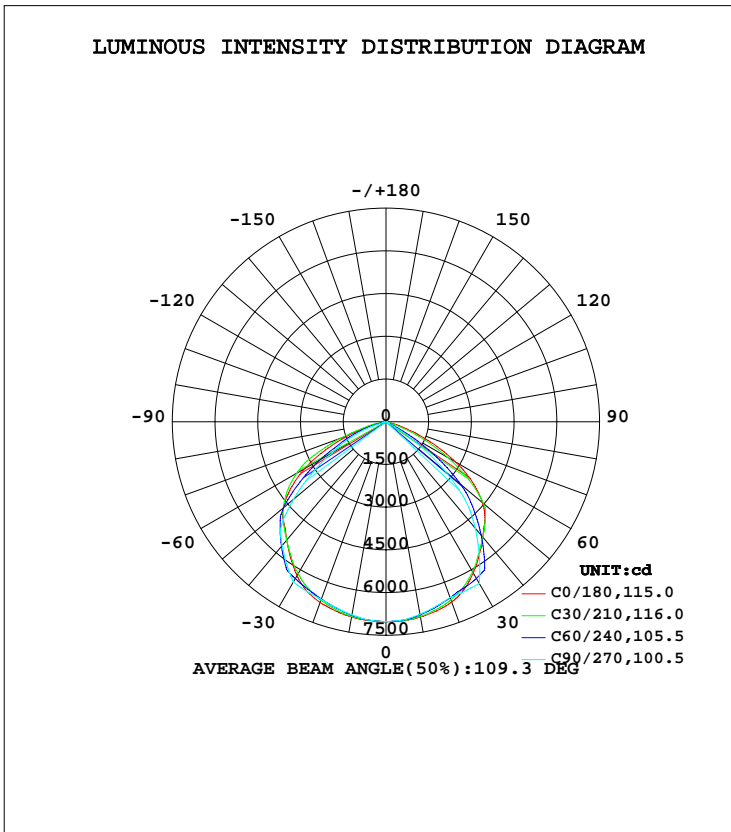
 γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 117.73 lm/W			
MODEL		I _{max} (cd)	7023	S/MH(C0/180)	1.31
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.35
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	17769	η UP, DN(C0-180)	0.0,46.3
NOMINAL FLUX(lm)	17769.3	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,53.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	7017	6998	6982	6987	7002	6991	6991	7005	0- 5	167.5	167.5	0.94,0.94
10	6963	6913	6868	6905	6958	6913	6887	6916	5- 10	497.7	665.2	3.74,3.74
15	6877	6773	6718	6773	6871	6790	6763	6797	10- 15	813.2	1478	8.32,8.32
20	6736	6605	6568	6586	6756	6630	6639	6645	15- 20	1108	2586	14.6,14.6
25	6488	6385	6560	6386	6569	6442	6572	6447	20- 25	1377	3963	22.3,22.3
30	6124	6169	6552	6207	6245	6236	6504	6209	25- 30	1616	5579	31.4,31.4
35	5709	5928	5711	6019	5839	6001	6089	5926	30- 35	1796	7375	41.5,41.5
40	5289	5542	4871	5708	5421	5695	5674	5571	35- 40	1883	9257	52.1,52.1
45	4914	4721	3984	4953	5068	5205	5198	5043	40- 45	1899	11156	62.8,62.8
50	4421	3899	2724	4249	4702	4724	4233	4509	45- 50	1835	12991	73.1,73.1
55	3712	3044	1417	3505	4082	4189	3208	3916	50- 55	1639	14630	82.3,82.3
60	2809	1881	109.2	2229	3298	3216	2182	2889	55- 60	1311	15940	89.7,89.7
65	1807	702.2	76.75	867.8	2338	2190	1480	1819	60- 65	909.6	16850	94.8,94.8
70	920.1	51.13	44.30	86.82	1392	1302	777.9	970.3	65- 70	554.0	17404	97.9,97.9
75	261.0	26.98	15.00	48.22	612.0	624.1	143.9	461.2	70- 75	262.0	17666	99.4,99.4
80	29.53	7.704	10.84	15.29	68.07	63.85	54.91	55.81	75- 80	75.76	17742	99.8,99.8
85	11.69	9.915	9.821	12.85	12.50	38.60	34.08	34.65	80- 85	18.61	17760	100,100
90	12.67	12.14	8.805	10.45	8.565	13.50	13.26	13.77	85- 90	8.863	17769	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 11156 lm

%lum = 62.8%
%lamp = 62.8%

Conical surface Flux(120deg): 15940 lm

%lum = 89.7%
%lamp = 89.7%

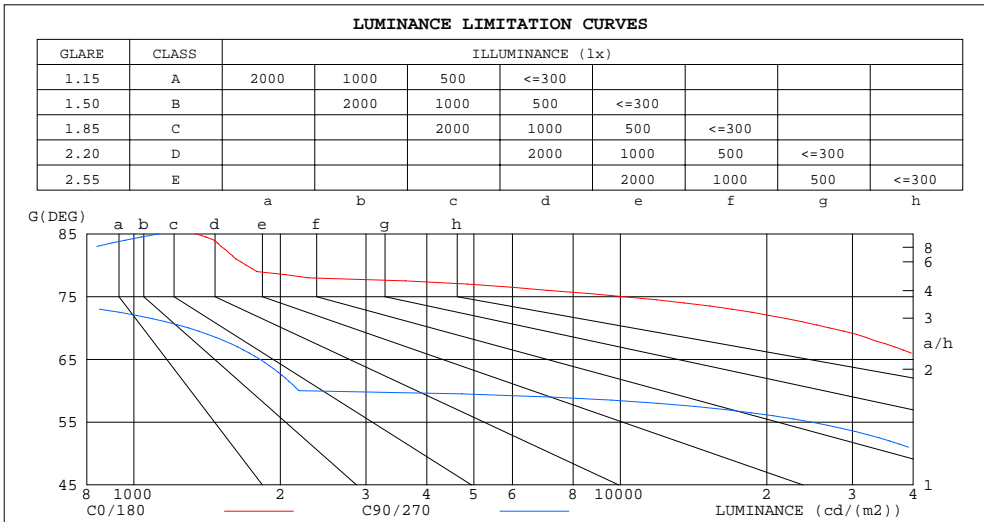
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-09-01

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1342	1127
80	1700	624
75	10083	579
70	26901	1295
65	42768	1816
60	56175	2184
55	64722	24696
50	68776	42375
45	69495	56348

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

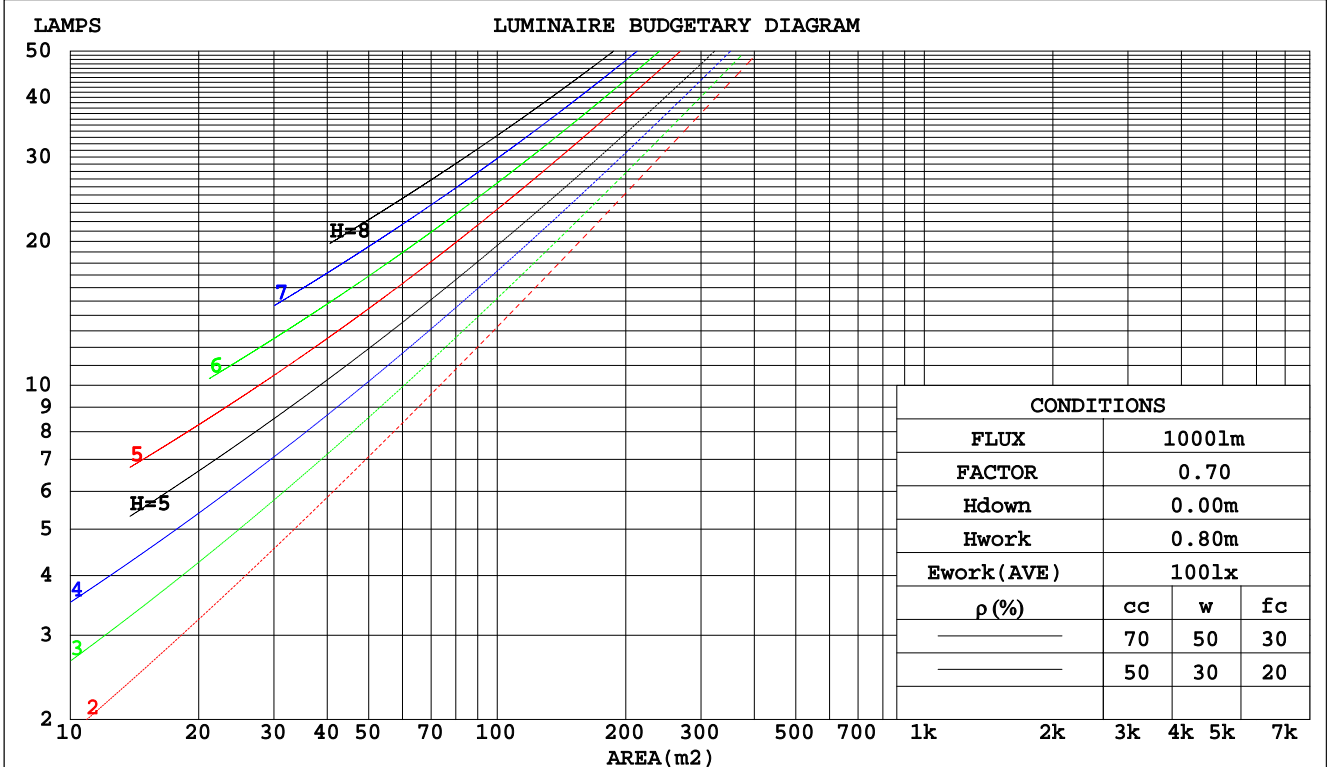
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm																

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.07	1.03	.00	1.04	1.01	.98	1.00	.98	.95	.96	.94	.92	.93	.91	.90	.88
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.77	.71	.83	.76	.70	.80	.74	.69	.77	.72	.68	.75	.70	.67	.65
4.0	.75	.67	.61	.74	.66	.60	.71	.65	.60	.69	.63	.59	.67	.62	.58	.56
5.0	.67	.59	.53	.66	.58	.53	.64	.57	.52	.62	.56	.51	.60	.55	.51	.49
6.0	.61	.52	.46	.60	.52	.46	.58	.51	.46	.56	.50	.45	.55	.49	.45	.43
7.0	.55	.47	.41	.54	.47	.41	.53	.46	.41	.52	.45	.40	.50	.44	.40	.38
8.0	.50	.42	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
9.0	.46	.38	.33	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.31
10.0	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm															

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.256	.146	.046	.249	.142	.045	.236	.135	.043	.224	.129	.041	.213	.124	.040	
2.0	.251	.138	.042	.245	.135	.042	.234	.130	.040	.224	.125	.039	.214	.121	.038	
3.0	.240	.128	.038	.234	.126	.038	.224	.122	.037	.215	.118	.036	.207	.114	.035	
4.0	.226	.118	.035	.221	.116	.034	.213	.113	.034	.204	.110	.033	.197	.107	.033	
5.0	.213	.108	.031	.208	.107	.031	.201	.104	.031	.193	.102	.030	.186	.100	.030	
6.0	.200	.100	.029	.196	.099	.028	.189	.097	.028	.182	.095	.028	.176	.093	.028	
7.0	.188	.093	.026	.184	.092	.026	.178	.090	.026	.172	.088	.026	.167	.087	.025	
8.0	.177	.086	.024	.174	.086	.024	.168	.084	.024	.163	.082	.024	.158	.081	.024	
9.0	.167	.081	.023	.164	.080	.022	.159	.079	.022	.154	.077	.022	.150	.076	.022	
10.0	.157	.076	.021	.155	.075	.021	.151	.074	.021	.146	.073	.021	.142	.071	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.139	.151	.134	.119	.103	.092	.083	.059	.054	.048	.019	.017	.016	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.036	.018	.015	.012	
3.0	.159	.114	.079	.136	.098	.068	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.151	.100	.062	.130	.087	.054	.089	.061	.038	.052	.035	.022	.017	.012	.007	
5.0	.144	.090	.050	.124	.078	.043	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.138	.081	.041	.118	.071	.036	.082	.049	.025	.047	.029	.015	.015	.009	.005	
7.0	.131	.074	.035	.113	.065	.030	.078	.045	.021	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.030	.108	.060	.026	.075	.042	.018	.043	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.103	.055	.023	.071	.039	.016	.042	.023	.010	.013	.008	.003	
10.0	.114	.060	.023	.099	.052	.020	.068	.036	.014	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm										
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	27.3	28.7	27.6	28.9	29.1	23.8	25.2	24.0	25.4	25.6
3H	27.8	29.1	28.1	29.3	29.5	23.5	24.8	23.8	25.1	25.3
4H	27.7	28.9	28.0	29.2	29.4	23.4	24.7	23.7	24.9	25.2
6H	27.6	28.8	27.9	29.0	29.3	23.3	24.5	23.7	24.7	25.0
8H	27.6	28.7	27.9	28.9	29.2	23.3	24.4	23.6	24.7	24.9
12H	27.5	28.6	27.9	28.9	29.1	23.2	24.3	23.6	24.6	24.9
4H 2H	27.3	28.5	27.6	28.7	29.0	24.2	25.4	24.5	25.6	25.9
3H	27.7	28.8	28.1	29.1	29.4	24.0	25.0	24.3	25.3	25.6
4H	27.7	28.7	28.1	29.0	29.3	23.9	24.8	24.2	25.1	25.5
6H	27.6	28.5	28.0	28.8	29.2	23.8	24.6	24.2	25.0	25.3
8H	27.6	28.3	28.0	28.7	29.1	23.7	24.5	24.1	24.9	25.2
12H	27.5	28.2	28.0	28.6	29.0	23.7	24.4	24.1	24.8	25.2
8H 4H	27.6	28.3	28.0	28.7	29.1	23.8	24.5	24.2	24.9	25.3
6H	27.5	28.1	27.9	28.5	28.9	23.7	24.3	24.1	24.7	25.1
8H	27.4	28.0	27.9	28.4	28.9	23.6	24.2	24.1	24.6	25.1
12H	27.4	27.9	27.9	28.3	28.8	23.6	24.1	24.1	24.5	25.0
12H 4H	27.5	28.2	27.9	28.6	29.0	23.7	24.4	24.1	24.8	25.2
6H	27.4	28.0	27.9	28.4	28.9	23.6	24.2	24.1	24.6	25.1
8H	27.4	27.9	27.9	28.3	28.8	23.6	24.1	24.1	24.5	25.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.5					+ 1.8 / - 3.5				
1.5H	+ 0.7 / - 1.1					+ 0.8 / - 1.2				
2.0H	+ 1.1 / - 1.6					+ 3.0 / -18.2				

CIE Pub.117 Corrected 17769 lm Total Lamp Luminous Flux. (8log(F/F0) = 10.0)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm		

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	50	43	60	50	43	59	49	43	37
0.80	72	61	54	71	61	54	69	60	54	47
1.00	81	71	64	80	70	64	78	71	63	57
1.25	88	79	72	87	78	72	84	77	71	65
1.50	93	84	78	91	83	78	88	82	77	70
2.00	99	92	86	97	91	86	94	89	84	77
2.50	102	96	91	100	94	90	97	92	88	80
3.00	105	100	95	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	107	103	108	105	102	104	101	99	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

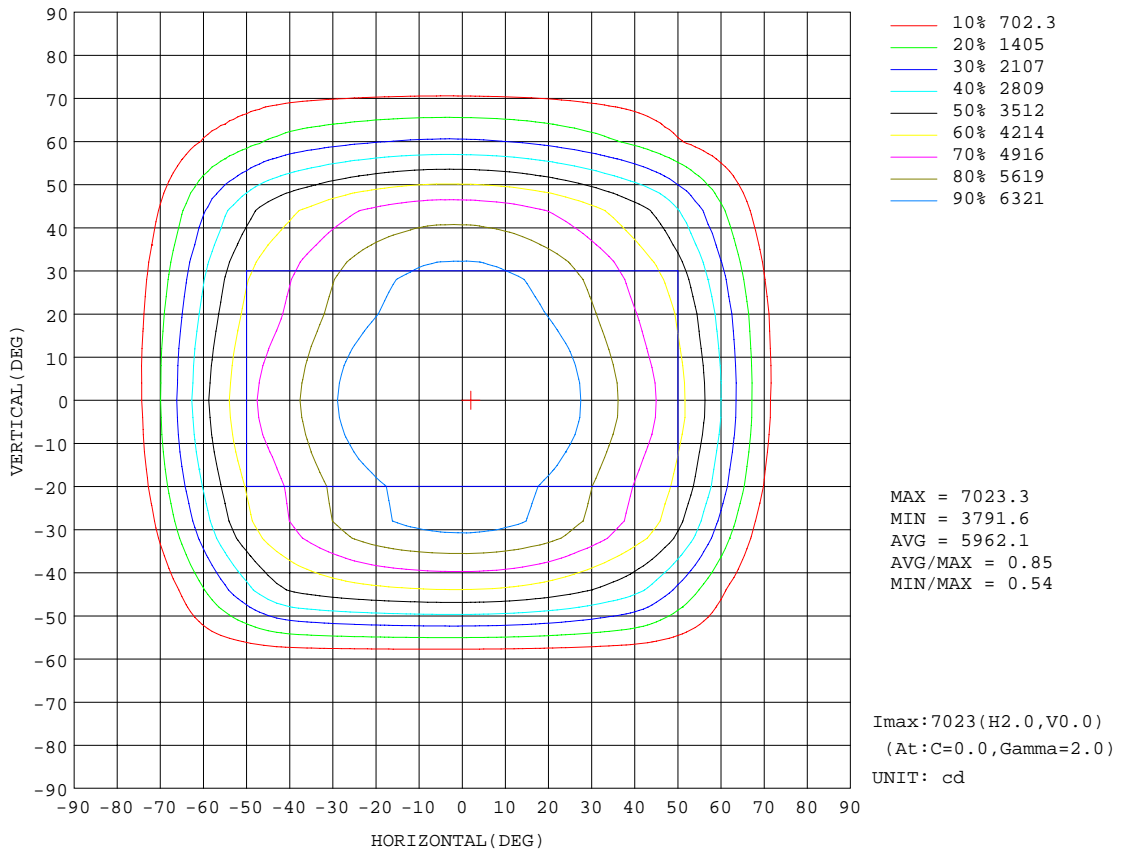
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-01

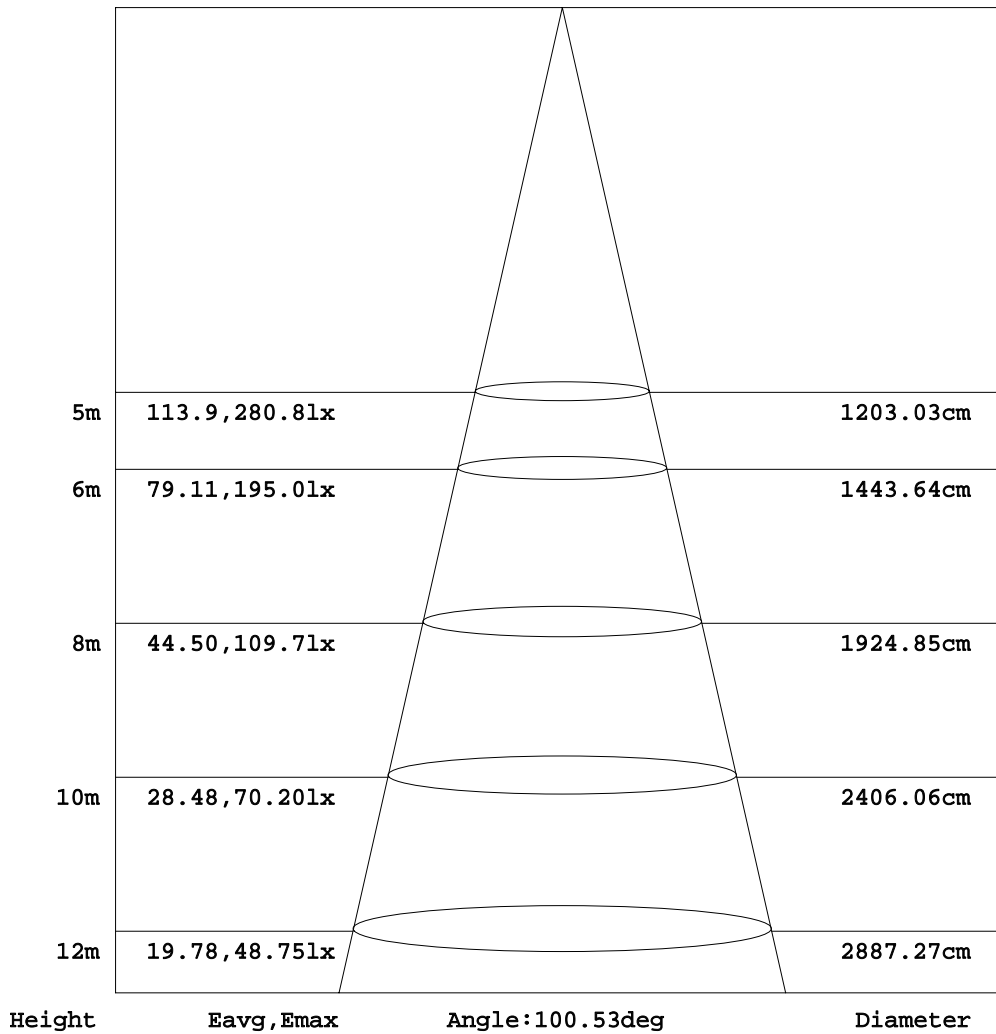
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm		

Flux out:13166 lm



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

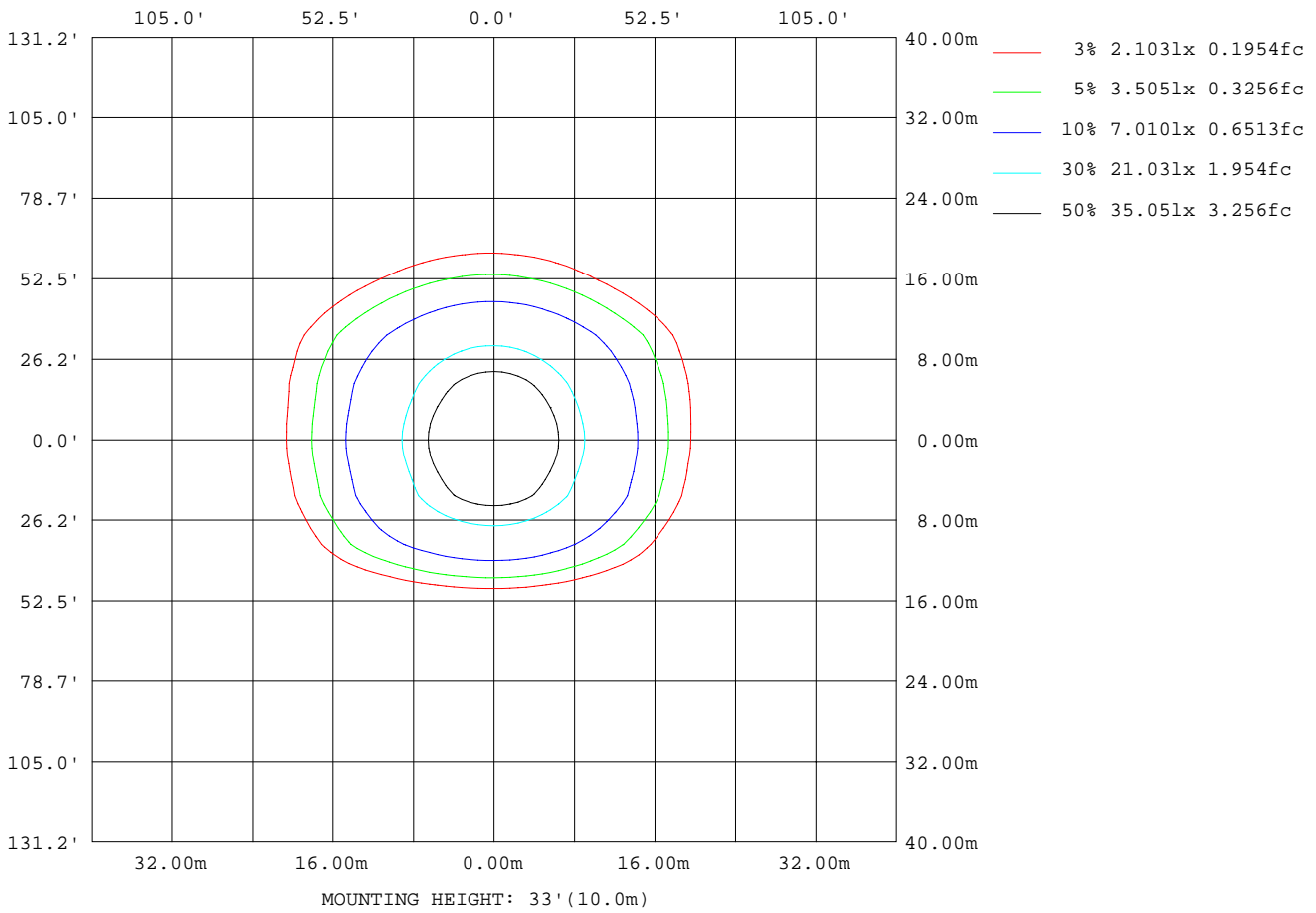
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm		

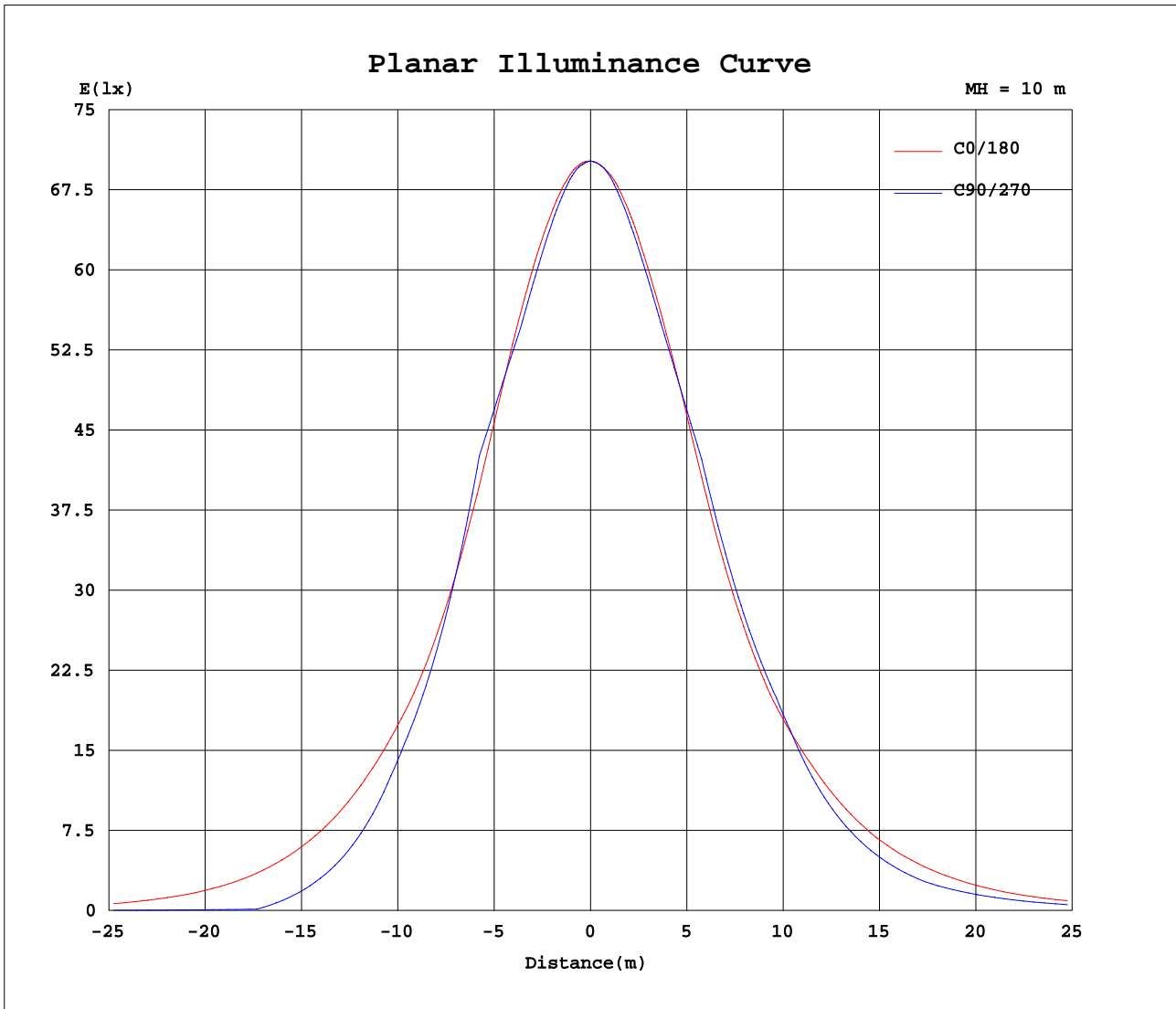
AvgL	cd/m2
L_0~180(65)av	49047
L_0~180(75)av	16864
L_0~180(85)av	1388
L_90~270(65)av	18419
L_90~270(75)av	3069
L_90~270(85)av	2519
L_45(65)av	33005
L_45(75)av	11210
L_45(85)av	2754

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-01

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm

Table--1

UNIT: cd

Table with columns C(DEG) and y (DEG) and numerical data values.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-09-01
gamma Range: 0 - 90DEG
gamma Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm

Table--2 UNIT: cd. Grid with C(DEG) and gamma (DEG) headers. Data points range from 7020 to 8.36.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-09-01

gamma Range: 0 - 90DEG
gamma Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm																	

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020
5	6999	6997	6995	6994	6993	6992	6991	6991	6992	6991	6990	6990	6990	6990	6990	6990	6991	6990	6990
10	6951	6950	6949	6945	6938	6932	6923	6913	6907	6902	6900	6893	6891	6892	6893	6892	6887	6883	6885
15	6860	6858	6849	6838	6824	6812	6800	6790	6781	6772	6766	6764	6765	6762	6764	6764	6763	6766	6770
20	6732	6720	6704	6688	6674	6657	6640	6630	6625	6627	6630	6627	6623	6631	6636	6636	6639	6651	6648
25	6544	6530	6507	6480	6457	6445	6440	6442	6444	6462	6489	6519	6535	6547	6564	6570	6572	6578	6566
30	6224	6216	6199	6178	6166	6169	6196	6236	6281	6326	6364	6402	6449	6473	6496	6504	6504	6503	6487
35	5809	5799	5782	5785	5802	5855	5921	6001	6088	6163	6153	6132	6124	6120	6111	6097	6089	6091	6082
40	5382	5359	5347	5355	5423	5520	5620	5695	5703	5711	5710	5706	5699	5704	5701	5684	5674	5670	5652
45	5004	4954	4942	4992	5078	5194	5190	5205	5223	5248	5259	5272	5275	5288	5257	5218	5198	5193	5189
50	4660	4633	4631	4669	4707	4692	4704	4724	4760	4775	4705	4575	4464	4380	4315	4262	4233	4232	4248
55	4042	4077	4181	4250	4227	4212	4234	4189	4024	3839	3685	3547	3437	3350	3284	3237	3208	3206	3224
60	3278	3365	3523	3557	3619	3666	3460	3216	2995	2818	2660	2518	2410	2321	2254	2210	2182	2181	2198
65	2415	2570	2661	2799	2786	2606	2400	2190	1989	1822	1731	1661	1606	1559	1522	1498	1480	1476	1481
70	1522	1652	1800	1822	1688	1492	1365	1302	1220	1121	1034	961	902	851	815	791	778	779	792
75	760	875	911	868	775	741	697	624	533	432	342	263	203	177	161	150	144	146	155
80	192	240	264	307	272	190	115	63.8	62.5	61.0	59.7	58.4	57.2	56.1	56.5	56.1	54.9	54.1	54.0
85	23.3	32.1	32.5	33.2	35.3	37.4	38.6	38.6	38.0	37.3	36.7	36.0	35.3	34.7	34.9	34.7	34.1	33.7	33.7
90	9.02	10.2	11.4	12.1	12.6	13.1	13.4	13.5	13.6	13.6	13.6	13.5	13.4	13.3	13.3	13.3	13.3	13.3	13.4

C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 5.0DEG γ Interval: 0.5DEG
 Test Speed: HIGH Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Temperature: 25DEG Humidity: 65.0%
 Operators: Test Distance: 7.850m [K=1.0000]
 Test Date: 2016-09-01 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:1.262A P:150.9W PF:0.9924 Lamp Flux:17769.3x1 lm																

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020	7020				
5	6992	6995	6998	7001	7004	7005	7005	7005	7006	7006	7007	7008	7010	7012	7015				
10	6890	6894	6897	6901	6905	6910	6916	6927	6937	6945	6954	6956	6957	6958	6960				
15	6769	6766	6769	6777	6783	6788	6797	6810	6821	6831	6848	6862	6872	6872	6873				
20	6636	6638	6643	6636	6636	6642	6645	6649	6656	6669	6684	6701	6719	6727	6729				
25	6548	6538	6512	6496	6484	6465	6447	6436	6437	6443	6457	6472	6483	6490	6486				
30	6457	6421	6386	6348	6299	6249	6209	6170	6149	6130	6115	6111	6114	6121	6119				
35	6081	6080	6084	6084	6077	6002	5926	5858	5788	5735	5700	5682	5685	5695	5708				
40	5641	5630	5614	5598	5590	5578	5571	5510	5420	5353	5300	5262	5250	5260	5280				
45	5202	5168	5137	5119	5089	5060	5043	5045	5048	4948	4882	4861	4847	4865	4899				
50	4291	4340	4423	4526	4570	4547	4509	4486	4482	4510	4474	4455	4441	4411	4424				
55	3261	3313	3394	3491	3618	3768	3916	3943	3927	3928	3942	3879	3815	3731	3715				
60	2232	2282	2357	2449	2563	2705	2889	3114	3292	3229	3155	3109	2988	2890	2835				
65	1492	1504	1518	1533	1548	1655	1819	1994	2183	2330	2292	2173	2091	1967	1855				
70	814	842	873	909	944	973	970	924	1052	1214	1321	1298	1175	1078	985				
75	170	190	240	300	363	422	461	465	443	395	451	528	496	422	342				
80	54.3	54.6	54.9	55.4	55.6	55.8	55.8	86.4	121	141	131	91.1	97.2	53.7	35.3				
85	33.8	34.1	34.3	34.6	34.7	34.8	34.7	34.0	32.7	30.8	28.1	24.4	21.3	18.4	16.0				
90	13.4	13.5	13.6	13.8	13.8	13.8	13.8	13.6	13.3	12.8	12.1	11.4	10.7	10.3	10.4				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-09-01

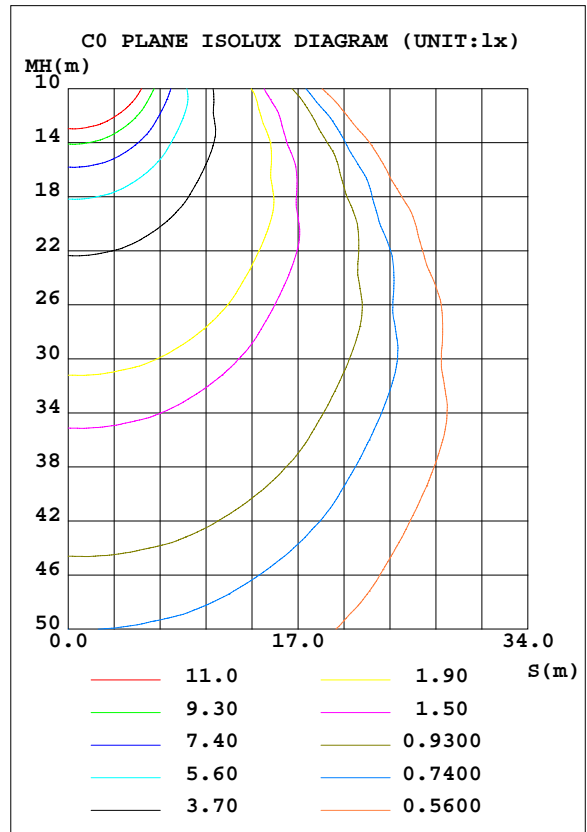
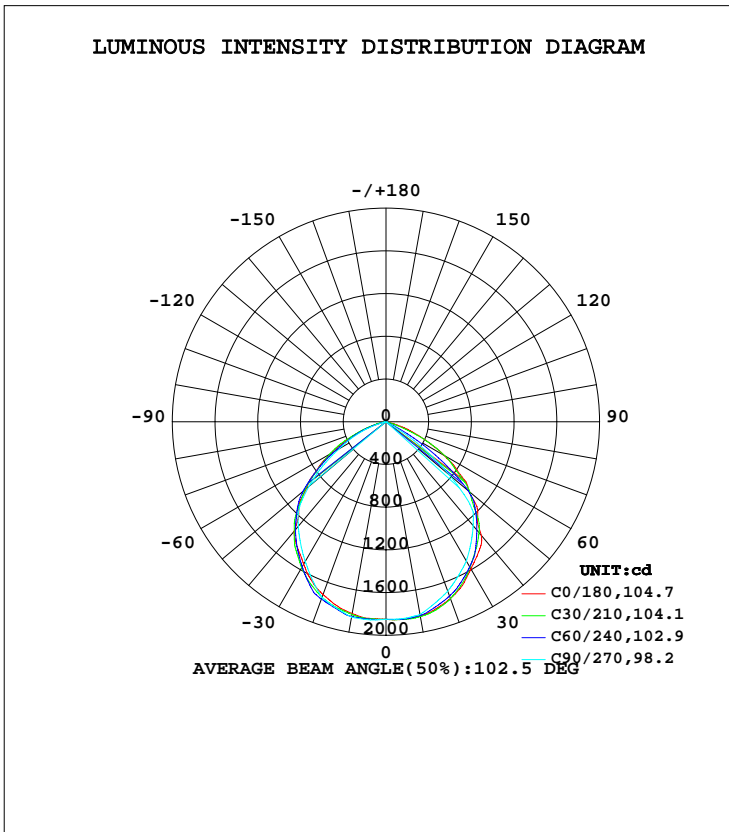
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 109.15 lm/W			
MODEL		I _{max} (cd)	1864	S/MH(C0/180)	1.24
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.22
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4287.8	η UP, DN(C0-180)	0.0,47.6
NOMINAL FLUX(lm)	4287.85	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,52.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	1856	1857	1849	1849	1848	1852	1861	1861	0- 5	44.32	44.32	1.03,1.03
10	1850	1849	1833	1833	1823	1841	1857	1851	5- 10	132.3	176.6	4.12,4.12
15	1812	1815	1761	1786	1782	1805	1805	1833	10- 15	216.2	392.9	9.16,9.16
20	1762	1746	1689	1712	1722	1752	1753	1781	15- 20	292.3	685.1	16,16
25	1691	1668	1597	1629	1644	1682	1632	1717	20- 25	357.6	1043	24.3,24.3
30	1592	1572	1505	1537	1542	1583	1512	1616	25- 30	408.3	1451	33.8,33.8
35	1504	1456	1387	1421	1444	1449	1394	1486	30- 35	443.7	1895	44.2,44.2
40	1391	1328	1270	1294	1340	1308	1277	1332	35- 40	464.0	2359	55,55
45	1215	1191	1126	1153	1155	1165	1150	1198	40- 45	463.8	2823	65.8,65.8
50	1020	1020	773.2	996.7	974.4	981.8	941.7	1038	45- 50	438.5	3261	76.1,76.1
55	831.2	835.7	394.5	805.5	789.0	830.9	723.0	860.0	50- 55	376.0	3637	84.8,84.8
60	626.7	512.2	15.67	496.7	598.4	609.9	504.4	633.7	55- 60	285.8	3923	91.5,91.5
65	406.8	182.0	11.21	176.4	402.0	382.7	342.0	390.6	60- 65	187.8	4111	95.9,95.9
70	225.1	11.51	6.754	10.75	229.1	221.0	179.6	216.7	65- 70	109.8	4220	98.4,98.4
75	63.50	6.335	2.727	5.993	74.29	104.0	33.00	101.8	70- 75	48.86	4269	99.6,99.6
80	10.43	1.882	2.156	1.941	11.17	13.86	12.66	13.78	75- 80	12.66	4282	99.9,99.9
85	3.257	2.121	2.017	2.085	3.066	8.446	8.098	8.308	80- 85	3.878	4286	100,100
90	2.057	2.377	1.879	2.254	1.730	3.076	3.538	2.880	85- 90	1.962	4288	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2822.6 lm

%lum = 65.8%
%lamp = 65.8%

Conical surface Flux(120deg): 3922.9 lm

%lum = 91.5%
%lamp = 91.5%

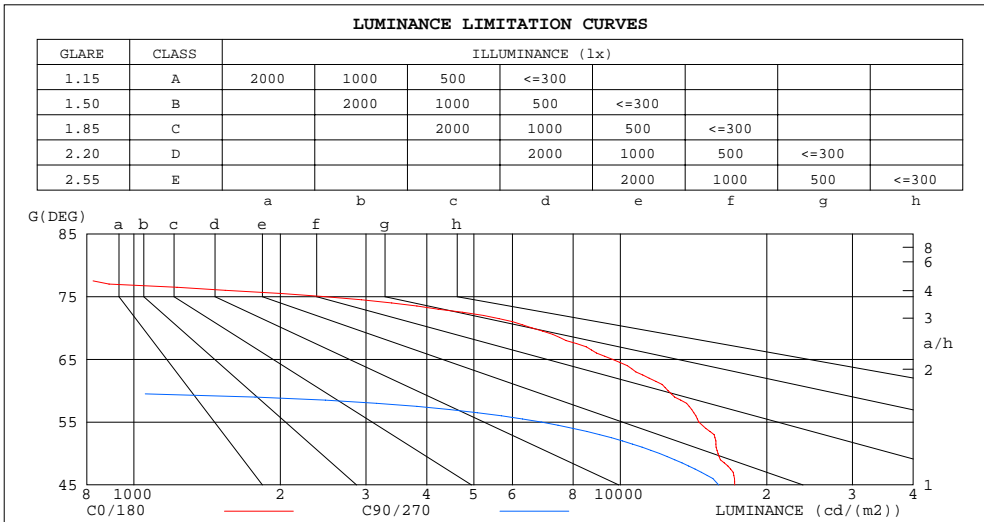
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-08-31

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	374	231
80	601	124
75	2454	105
70	6582	197
65	9626	265
60	12534	313
55	14492	6877
50	15872	12030
45	17183	15923

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-31

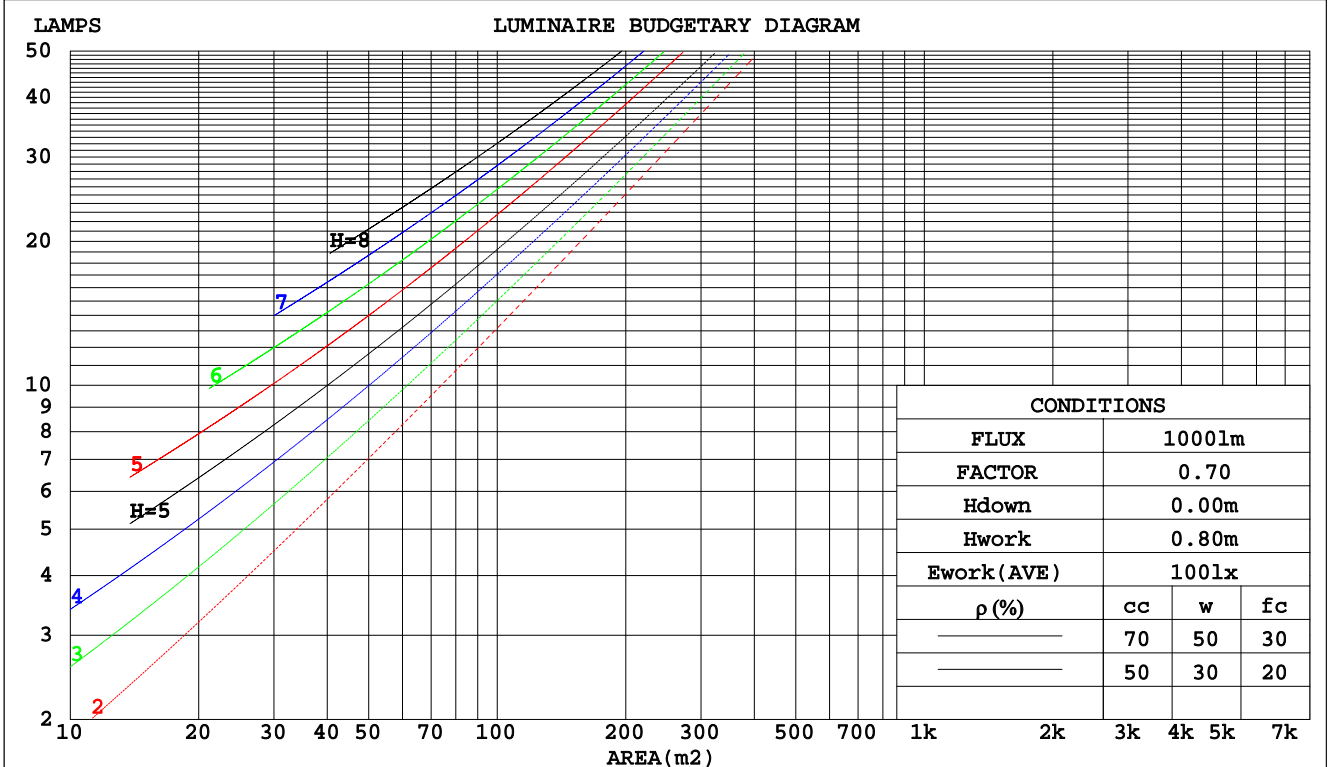
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.95	.90	.85	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.84	.77	.72	.81	.75	.71	.78	.73	.69	.76	.72	.68	.66
4.0	.76	.69	.63	.75	.68	.62	.73	.66	.61	.70	.65	.61	.68	.64	.60	.58
5.0	.69	.61	.55	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.62	.54	.48	.61	.54	.48	.60	.53	.48	.58	.52	.47	.56	.51	.47	.45
7.0	.57	.49	.43	.56	.48	.43	.54	.47	.42	.53	.47	.42	.52	.46	.42	.40
8.0	.52	.44	.38	.51	.44	.38	.50	.43	.38	.49	.42	.38	.48	.42	.38	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.39	.34	.45	.39	.34	.44	.38	.34	.32
10.0	.44	.37	.32	.44	.36	.31	.43	.36	.31	.42	.36	.31	.41	.35	.31	.29



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.248	.141	.045	.241	.137	.044	.228	.131	.042	.216	.124	.040	.205	.119	.038	
2.0	.243	.133	.041	.237	.131	.040	.226	.126	.039	.216	.121	.038	.206	.117	.037	
3.0	.232	.124	.037	.227	.122	.037	.217	.118	.036	.208	.114	.035	.200	.111	.034	
4.0	.220	.114	.034	.215	.113	.033	.206	.109	.033	.198	.106	.032	.191	.104	.032	
5.0	.207	.106	.031	.203	.104	.030	.195	.102	.030	.188	.099	.030	.181	.097	.029	
6.0	.195	.098	.028	.191	.097	.028	.184	.094	.027	.178	.092	.027	.172	.090	.027	
7.0	.184	.091	.026	.180	.090	.026	.174	.088	.025	.168	.086	.025	.163	.085	.025	
8.0	.173	.085	.024	.170	.084	.024	.165	.082	.023	.159	.081	.023	.155	.079	.023	
9.0	.164	.079	.022	.161	.078	.022	.156	.077	.022	.151	.076	.022	.147	.075	.022	
10.0	.155	.074	.021	.152	.074	.021	.148	.072	.020	.144	.071	.020	.140	.070	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.139	.151	.134	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.104	.142	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.157	.114	.080	.135	.098	.069	.093	.068	.048	.053	.040	.029	.017	.013	.009	
4.0	.150	.100	.063	.128	.087	.054	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.143	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.130	.074	.035	.112	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.124	.068	.030	.107	.059	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.026	.102	.055	.023	.071	.039	.016	.041	.023	.010	.013	.008	.003	
10.0	.113	.059	.023	.097	.051	.020	.068	.036	.014	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	22.2	23.6	22.5	23.8	24.0	19.7	21.0	19.9	21.2	21.4
3H	22.7	24.0	23.0	24.2	24.4	19.5	20.7	19.7	20.9	21.2
4H	22.7	23.9	23.0	24.1	24.3	19.4	20.5	19.7	20.8	21.0
6H	22.6	23.7	22.9	23.9	24.2	19.3	20.4	19.6	20.6	20.9
8H	22.5	23.6	22.9	23.9	24.1	19.2	20.3	19.5	20.5	20.8
12H	22.5	23.5	22.8	23.8	24.1	19.2	20.2	19.5	20.5	20.8
4H 2H	22.3	23.5	22.6	23.7	24.0	20.0	21.2	20.3	21.4	21.7
3H	22.8	23.8	23.1	24.1	24.4	19.8	20.8	20.1	21.1	21.4
4H	22.7	23.7	23.1	24.0	24.3	19.7	20.6	20.1	20.9	21.3
6H	22.7	23.5	23.1	23.8	24.2	19.6	20.4	20.0	20.8	21.1
8H	22.6	23.4	23.0	23.7	24.1	19.6	20.3	20.0	20.7	21.1
12H	22.6	23.3	23.0	23.6	24.0	19.5	20.2	19.9	20.6	21.0
8H 4H	22.6	23.4	23.0	23.7	24.1	19.6	20.4	20.0	20.7	21.1
6H	22.5	23.1	23.0	23.5	24.0	19.5	20.1	20.0	20.5	21.0
8H	22.5	23.0	22.9	23.4	23.9	19.5	20.0	19.9	20.4	20.9
12H	22.5	22.9	22.9	23.4	23.8	19.4	19.9	19.9	20.3	20.8
12H 4H	22.6	23.3	23.0	23.6	24.0	19.6	20.2	20.0	20.6	21.0
6H	22.5	23.0	22.9	23.4	23.9	19.5	20.0	19.9	20.4	20.9
8H	22.5	22.9	22.9	23.4	23.8	19.4	19.9	19.9	20.3	20.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.5					+ 1.7 / - 2.9				
1.5H	+ 0.4 / - 0.9					+ 1.1 / - 1.1				
2.0H	+ 1.0 / - 0.9					+ 3.0 / -20.9				

CIE Pub.117 Corrected 4288 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.1)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	63	52	46	62	52	46	61	51	45	39
0.80	73	63	57	73	63	56	71	62	56	50
1.00	82	73	66	81	72	66	79	73	66	59
1.25	89	80	74	88	80	74	85	78	73	67
1.50	94	86	80	92	85	79	90	83	78	72
2.00	100	93	88	98	92	87	95	90	86	79
2.50	103	97	92	101	95	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	99	103	100	97	89
5.00	111	107	104	109	105	102	104	102	99	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

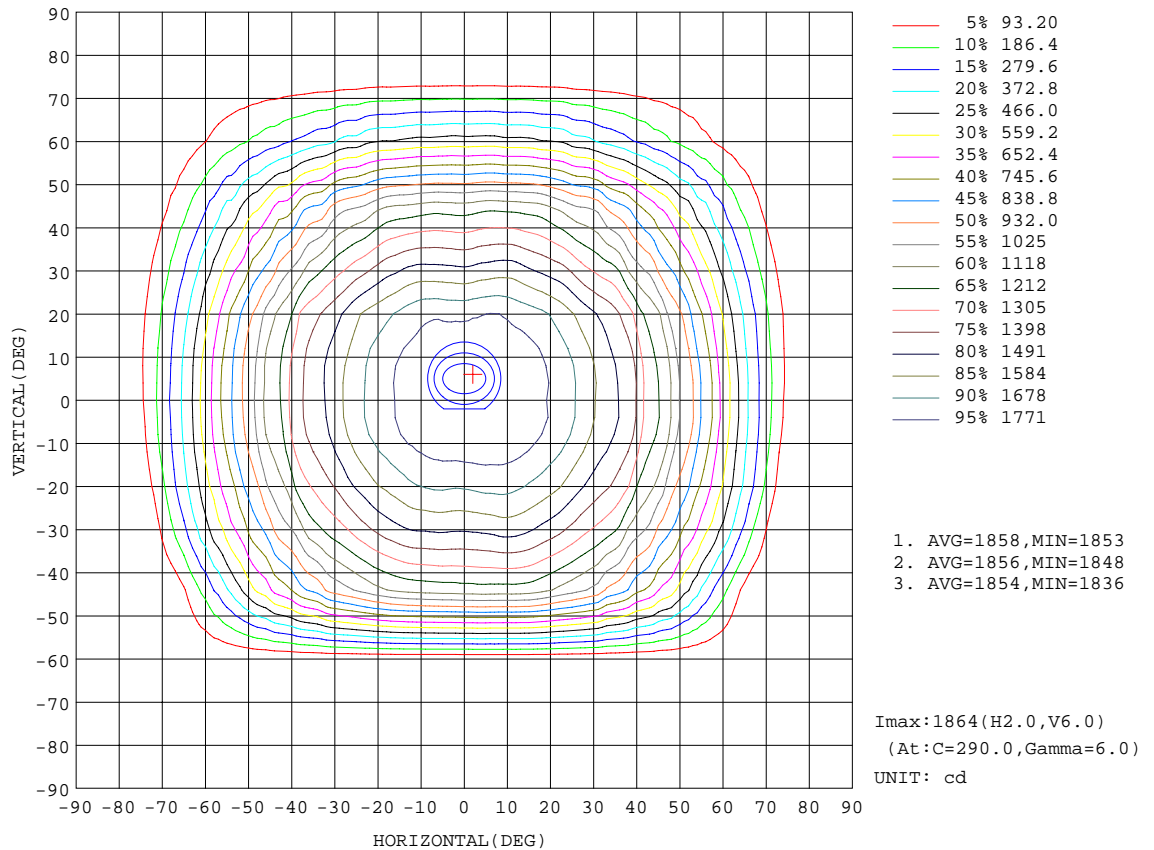
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

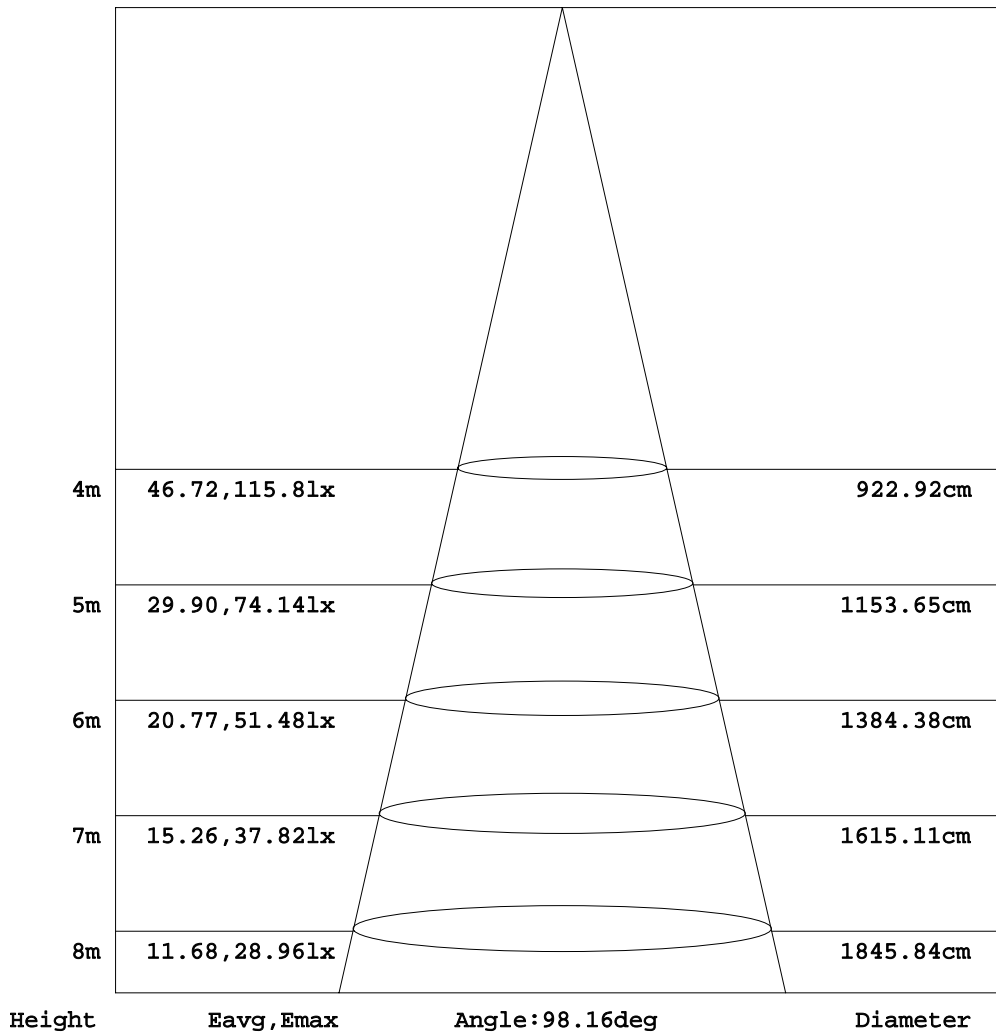
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:3220 lm



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

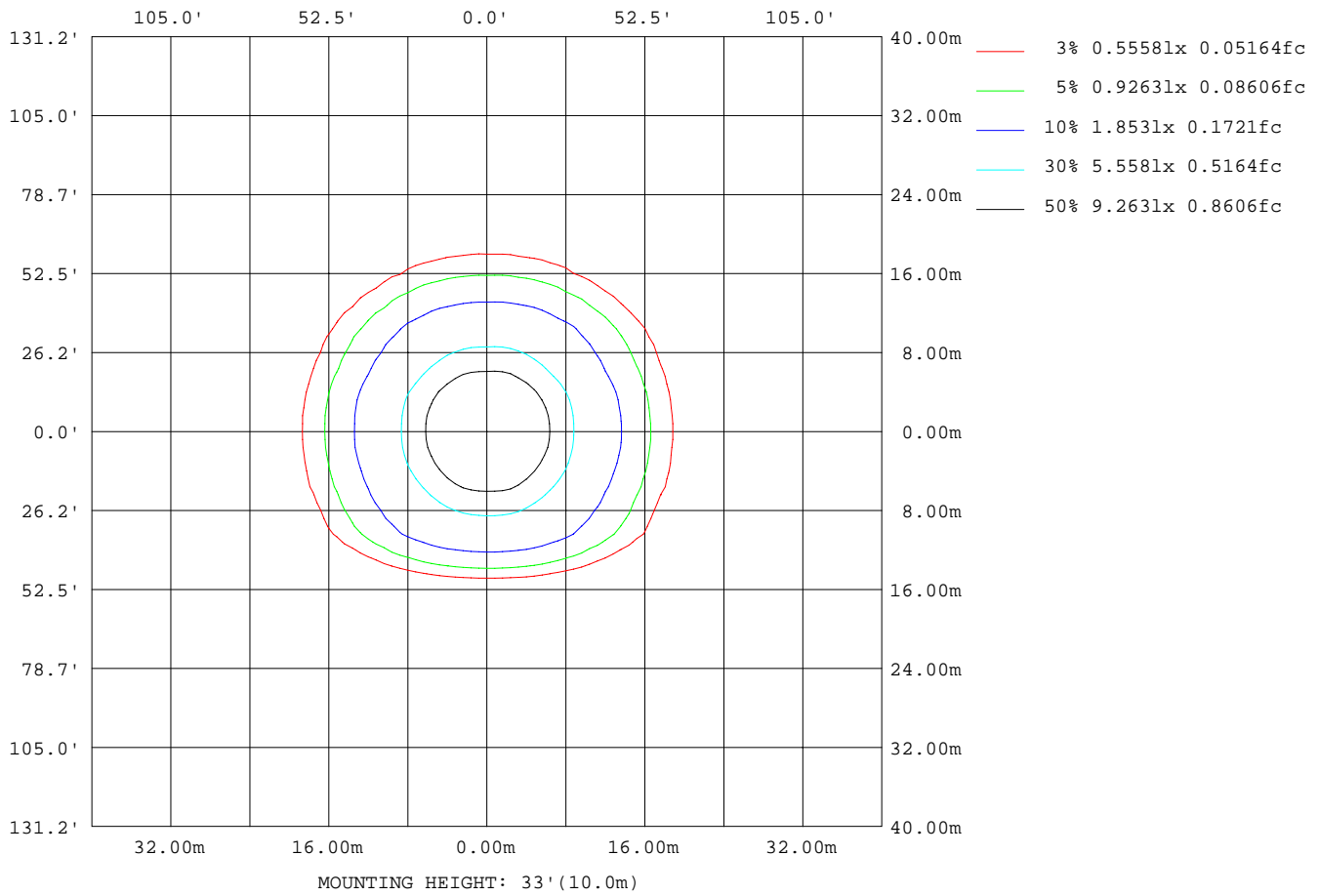
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

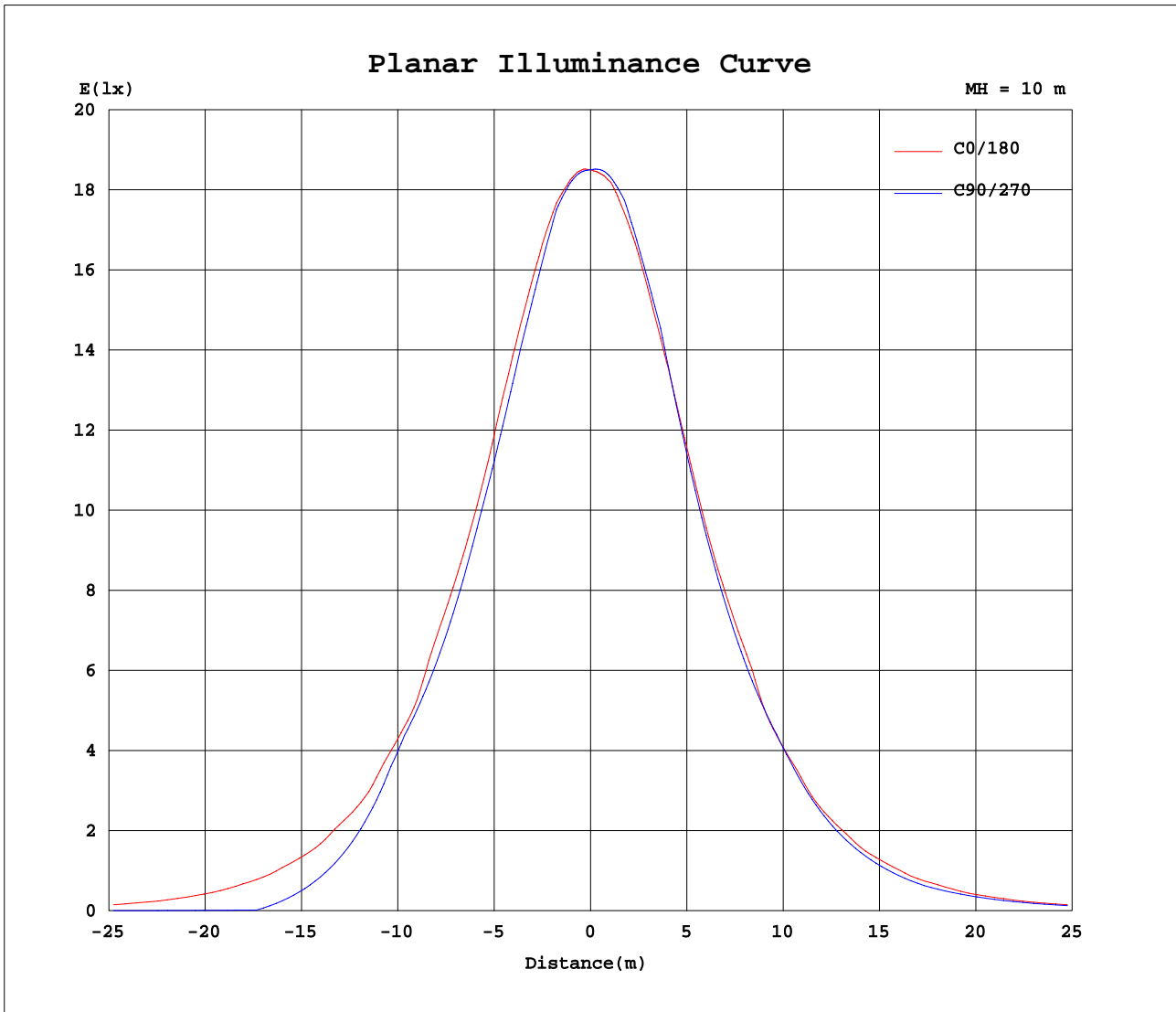
AvgL	cd/m2
L_0~180(65)av	9569
L_0~180(75)av	2662
L_0~180(85)av	363
L_90~270(65)av	4179
L_90~270(75)av	690
L_90~270(85)av	580
L_45(65)av	6694
L_45(75)av	2107
L_45(85)av	601

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850
5	1856	1856	1857	1857	1858	1858	1858	1858	1858	1857	1857	1857	1855	1854	1853	1853	1852	1850	1849
10	1850	1850	1851	1852	1853	1853	1853	1853	1851	1849	1845	1843	1842	1839	1838	1836	1835	1835	1833
15	1812	1814	1817	1821	1822	1822	1822	1822	1821	1815	1808	1802	1794	1787	1782	1776	1769	1764	1761
20	1762	1764	1768	1769	1767	1765	1764	1757	1751	1746	1743	1740	1737	1731	1722	1716	1706	1695	1689
25	1691	1692	1695	1694	1691	1686	1679	1673	1670	1668	1665	1663	1660	1656	1645	1628	1616	1604	1597
30	1592	1592	1592	1589	1584	1576	1573	1574	1577	1572	1567	1567	1569	1569	1562	1543	1523	1511	1505
35	1504	1508	1505	1496	1481	1469	1465	1457	1453	1456	1461	1460	1461	1459	1449	1430	1407	1394	1387
40	1391	1397	1394	1384	1373	1370	1356	1340	1334	1328	1327	1326	1323	1327	1320	1305	1287	1277	1270
45	1215	1219	1208	1187	1181	1176	1187	1220	1195	1191	1184	1184	1188	1193	1192	1177	1150	1136	1126
50	1020	1026	1012	1005	1022	1017	1023	999	1032	1020	1046	1039	1004	952	901	848	807	784	773
55	831	836	822	827	817	828	809	836	834	836	783	713	635	570	516	466	426	404	394
60	627	624	620	624	624	612	635	627	581	512	420	350	266	193	132	81.5	44.9	23.1	15.7
65	407	409	425	424	395	389	400	361	279	182	89.3	14.3	13.5	12.9	12.5	12.1	11.8	11.4	11.2
70	225	220	203	184	164	174	155	90.1	12.6	11.5	10.4	9.50	8.75	8.20	7.76	7.41	7.14	6.89	6.75
75	63.5	41.4	29.8	24.7	31.0	33.3	9.28	8.36	7.30	6.34	5.41	4.62	3.97	3.47	3.11	2.97	2.85	2.77	2.73
80	10.4	9.20	8.24	7.30	5.87	4.99	4.09	3.05	2.25	1.88	1.99	2.08	2.13	2.18	2.21	2.21	2.19	2.18	2.16
85	3.26	2.39	2.85	2.59	1.91	1.84	1.91	1.99	2.06	2.12	2.17	2.18	2.17	2.16	2.15	2.12	2.08	2.04	2.02
90	2.06	2.44	2.45	2.38	2.27	2.24	2.29	2.34	2.37	2.38	2.35	2.29	2.21	2.14	2.09	2.03	1.97	1.91	1.88

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2 UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850
5	1849	1848	1848	1848	1848	1849	1849	1849	1849	1849	1849	1848	1848	1848	1848	1848	1848	1848	1848
10	1831	1830	1830	1830	1830	1831	1830	1831	1833	1835	1836	1835	1835	1832	1829	1826	1825	1823	1824
15	1759	1760	1765	1770	1773	1777	1780	1782	1786	1789	1789	1791	1791	1791	1789	1786	1783	1782	1785
20	1686	1692	1702	1706	1708	1708	1711	1713	1712	1716	1721	1726	1725	1724	1724	1723	1722	1722	1722
25	1597	1607	1616	1621	1627	1632	1630	1629	1629	1631	1635	1640	1648	1652	1651	1650	1646	1644	1646
30	1508	1519	1525	1532	1541	1538	1534	1534	1537	1535	1534	1534	1536	1537	1543	1543	1541	1542	1546
35	1389	1400	1407	1422	1431	1431	1436	1429	1421	1418	1416	1415	1417	1425	1438	1440	1443	1444	1444
40	1269	1275	1282	1294	1297	1299	1298	1295	1294	1292	1297	1301	1310	1319	1327	1336	1337	1340	1339
45	1125	1137	1157	1165	1166	1164	1155	1149	1153	1160	1177	1157	1137	1128	1134	1148	1151	1155	1155
50	776	797	831	878	929	981	1007	1013	997	997	973	987	986	976	962	965	970	974	980
55	400	421	456	503	558	618	690	769	806	816	803	789	798	792	786	784	789	789	794
60	22.9	44.3	80.1	129	189	258	339	408	497	557	612	613	591	612	598	591	598	598	602
65	11.3	11.7	12.0	12.3	12.7	13.1	13.6	85.8	176	270	343	389	390	396	417	407	399	402	402
70	6.85	7.10	7.43	7.77	8.14	8.57	9.16	9.87	10.8	11.7	87.7	153	184	178	188	211	219	229	230
75	2.76	2.87	3.04	3.23	3.61	4.05	4.60	5.25	5.99	6.89	7.94	9.05	35.7	39.6	27.6	42.5	52.3	74.3	91.1
80	2.16	2.20	2.25	2.30	2.31	2.26	2.20	2.10	1.94	2.22	2.93	3.99	5.02	5.91	7.63	8.65	9.75	11.2	13.6
85	2.01	2.06	2.11	2.17	2.20	2.20	2.18	2.15	2.08	1.99	1.87	1.80	1.69	1.69	2.43	2.78	2.15	3.07	4.42
90	1.86	1.91	1.97	2.04	2.10	2.13	2.17	2.21	2.25	2.24	2.18	2.14	2.07	2.05	2.18	2.27	2.31	1.73	1.62

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:25DEG Operators: Test Date:2016-08-31	γ Range: 0 - 90DEG γ Interval: 0.5DEG Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350 Humidity:65.0% Test Distance:7.850m [K=1.0000] Remarks:
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--3

UNIT: cd

C(DEG) \ \u03b3 (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850
5	1849	1849	1849	1850	1850	1851	1851	1852	1853	1854	1856	1857	1858	1859	1860	1860	1861	1862	1862
10	1824	1826	1828	1831	1833	1835	1838	1841	1844	1848	1851	1854	1856	1858	1858	1858	1857	1858	1857
15	1788	1792	1795	1798	1800	1802	1804	1805	1806	1809	1811	1813	1811	1809	1807	1805	1805	1808	1811
20	1724	1729	1736	1744	1750	1747	1748	1752	1755	1760	1768	1770	1769	1761	1754	1753	1753	1760	1767
25	1650	1655	1664	1671	1673	1675	1677	1682	1689	1690	1687	1684	1673	1660	1645	1637	1632	1643	1659
30	1553	1560	1563	1567	1578	1593	1600	1583	1574	1569	1569	1570	1563	1547	1533	1521	1512	1526	1545
35	1451	1464	1459	1462	1469	1461	1458	1449	1444	1448	1447	1447	1443	1429	1416	1404	1394	1412	1430
40	1348	1352	1361	1368	1337	1322	1312	1308	1304	1305	1318	1317	1313	1307	1299	1286	1277	1296	1314
45	1170	1169	1178	1167	1172	1173	1157	1165	1166	1162	1179	1194	1184	1180	1175	1159	1150	1170	1189
50	985	996	1009	981	988	974	1002	982	1031	1030	1015	1021	998	975	964	950	942	960	977
55	806	815	798	795	781	801	806	831	808	820	786	787	769	750	738	730	723	736	748
60	602	602	603	593	607	618	603	610	581	580	558	560	539	526	513	509	504	513	517
65	405	407	408	427	429	410	407	383	367	344	363	368	361	353	348	345	342	348	348
70	231	230	240	248	248	236	222	221	216	213	215	208	204	192	186	182	180	184	186
75	95.1	93.8	103	107	112	118	113	104	94.9	83.7	70.8	56.3	45.8	40.2	36.4	33.9	33.0	34.2	36.4
80	16.3	23.1	21.8	35.5	39.2	32.0	21.7	13.9	13.7	13.5	13.3	13.1	13.0	12.9	12.8	12.7	12.7	12.8	12.9
85	5.87	6.99	7.25	7.57	7.86	8.12	8.29	8.45	8.46	8.42	8.35	8.26	8.21	8.19	8.14	8.11	8.10	8.14	8.19
90	1.73	1.87	2.04	2.28	2.52	2.76	2.88	3.08	3.27	3.34	3.40	3.41	3.42	3.47	3.50	3.52	3.54	3.53	3.49

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2016-08-31

\u03b3 Range: 0 - 90DEG
\u03b3 Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity: 65.0%
Test Distance: 7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.3299A P:39.29W PF:0.9896 Lamp Flux:4287.85x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850	1850				
5	1863	1863	1864	1863	1862	1862	1861	1860	1860	1859	1858	1857	1857	1856	1856				
10	1857	1856	1854	1853	1852	1851	1851	1851	1850	1850	1850	1851	1851	1850	1850				
15	1814	1818	1821	1824	1828	1831	1833	1836	1835	1833	1828	1825	1822	1818	1815				
20	1776	1782	1783	1781	1778	1780	1781	1782	1784	1787	1781	1777	1774	1769	1765				
25	1675	1689	1697	1700	1710	1719	1717	1712	1708	1706	1707	1706	1699	1696	1692				
30	1567	1583	1587	1585	1591	1604	1616	1630	1622	1614	1610	1612	1608	1602	1597				
35	1450	1465	1461	1462	1470	1481	1486	1485	1497	1512	1509	1508	1508	1507	1505				
40	1327	1336	1337	1340	1341	1341	1332	1340	1362	1394	1411	1405	1408	1407	1400				
45	1203	1210	1220	1208	1198	1191	1198	1204	1231	1205	1211	1218	1215	1216	1216				
50	994	1021	1045	1050	1049	1067	1038	1042	1008	1019	1037	1045	1034	1028	1028				
55	765	788	804	810	843	866	860	856	836	818	827	833	851	832	838				
60	535	548	571	567	601	603	634	638	650	640	631	627	631	622	624				
65	360	362	377	361	356	373	391	410	432	455	439	424	426	424	409				
70	197	204	215	217	216	221	217	207	222	237	248	250	240	238	235				
75	40.9	46.1	58.1	72.0	84.3	94.5	102	104	101	89.9	91.1	103	92.9	89.5	86.9				
80	13.0	13.2	13.3	13.5	13.6	13.7	13.8	20.6	28.4	32.0	28.2	16.8	20.9	15.2	12.8				
85	8.23	8.29	8.37	8.45	8.49	8.43	8.31	8.12	7.88	7.61	7.27	6.88	6.73	5.77	4.77				
90	3.44	3.40	3.41	3.42	3.36	3.14	2.88	2.79	2.75	2.53	2.28	2.05	1.88	1.74	1.64				

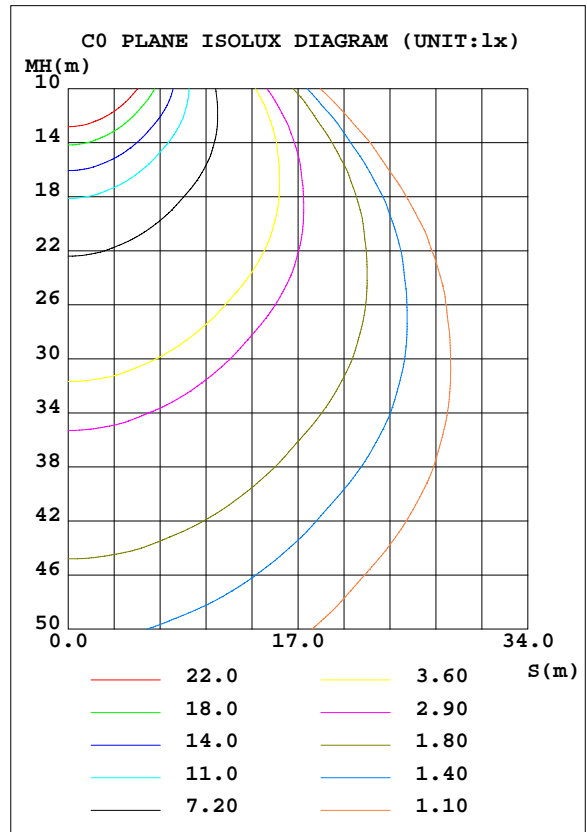
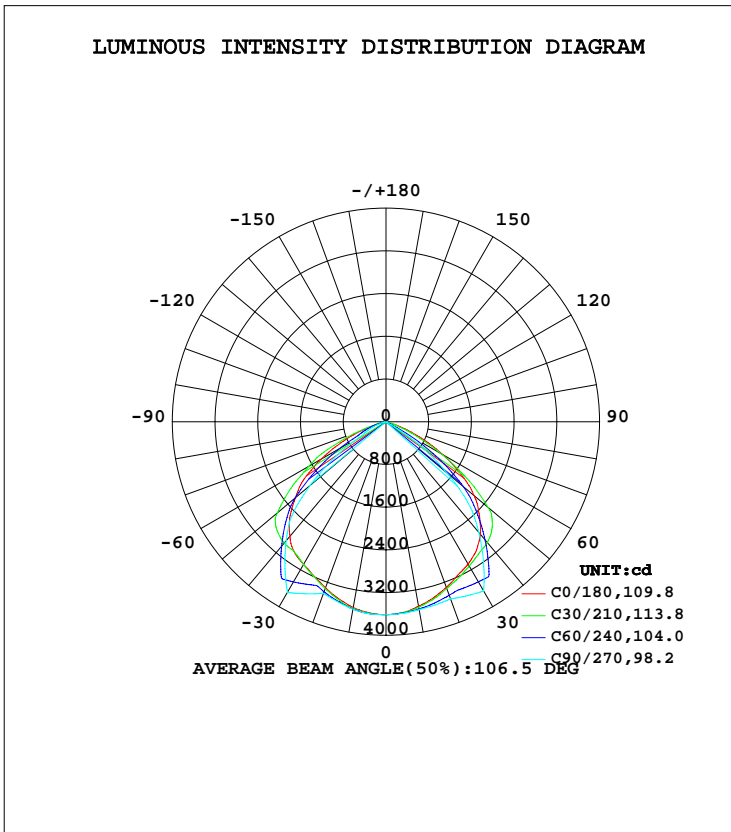
C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 5.0DEG γ Interval: 0.5DEG
 Test Speed: HIGH Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Temperature:25DEG Humidity:65.0%
 Operators: Test Distance:7.850m [K=1.0000]
 Test Date:2016-08-31 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.09 lm/W			
MODEL		I _{max} (cd)	3690	S/MH(C0/180)	1.29
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	1.40
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	8908.2	η UP, DN(C0-180)	0.0,47.9
NOMINAL FLUX(lm)	8908.19	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,52.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
5	3587	3593	3601	3597	3593	3605	3608	3600	0- 5	86.19	86.19	0.97,0.97
10	3508	3546	3573	3553	3535	3552	3566	3551	5- 10	255.6	341.8	3.84,3.84
15	3417	3469	3552	3491	3428	3476	3492	3458	10- 15	416.4	758.3	8.51,8.51
20	3300	3388	3531	3405	3311	3349	3418	3344	15- 20	564.7	1323	14.9,14.9
25	3174	3298	3595	3321	3191	3242	3554	3228	20- 25	702.9	2026	22.7,22.7
30	3077	3259	3659	3285	3084	3217	3690	3202	25- 30	840.2	2866	32.2,32.2
35	2949	3245	3182	3285	2988	3262	3300	3223	30- 35	958.1	3824	42.9,42.9
40	2748	3141	2704	3197	2799	3229	2909	3169	35- 40	1018	4842	54.4,54.4
45	2476	2678	2202	2744	2547	2854	2492	2766	40- 45	1022	5865	65.8,65.8
50	2158	2205	1498	2281	2214	2473	1854	2378	45- 50	961.1	6826	76.6,76.6
55	1718	1675	769.1	1760	1873	2040	1190	1936	50- 55	817.3	7643	85.8,85.8
60	1220	994.9	40.21	1074	1403	1428	524.9	1301	55- 60	600.3	8244	92.5,92.5
65	736.8	352.1	27.92	390.3	929.4	811.4	360.7	644.0	60- 65	365.1	8609	96.6,96.6
70	314.8	21.21	15.63	24.39	484.4	372.5	196.5	229.6	65- 70	193.0	8802	98.8,98.8
75	31.27	11.26	4.565	13.80	122.7	180.8	47.82	115.0	70- 75	76.45	8878	99.7,99.7
80	13.55	3.010	3.296	4.843	15.57	27.00	23.61	24.13	75- 80	19.51	8898	99.9,99.9
85	4.975	3.923	3.251	4.609	6.299	16.59	14.96	15.21	80- 85	6.744	8904	100,100
90	5.156	4.839	3.207	4.356	3.747	6.294	6.305	6.454	85- 90	3.779	8908	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 5864.8 lm

%lum = 65.8%
%lamp = 65.8%

Conical surface Flux(120deg): 8243.6 lm

%lum = 92.5%
%lamp = 92.5%

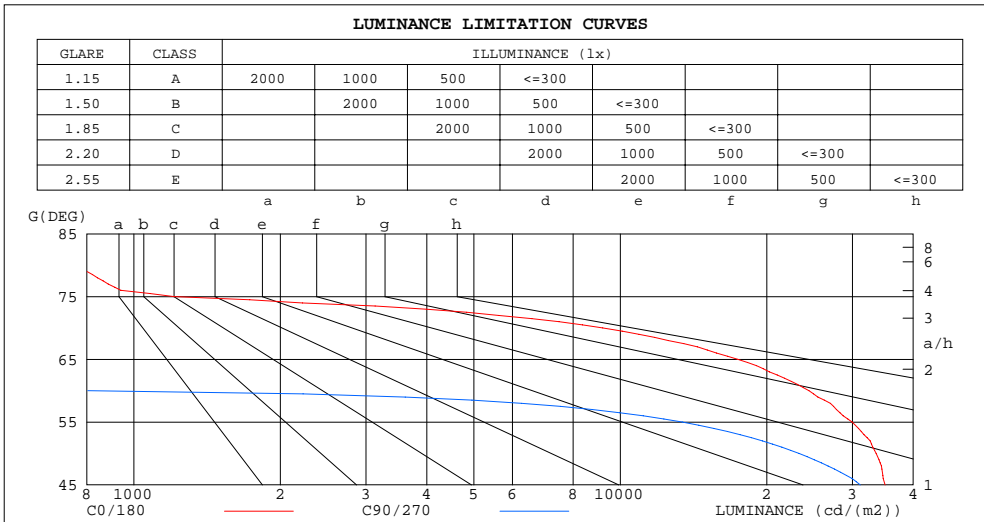
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-08-31

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity:65.0%
Test Distance:7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	571	373
80	780	190
75	1208	176
70	9204	457
65	17434	661
60	24407	804
55	29960	13408
50	33567	23304
45	35022	31136

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

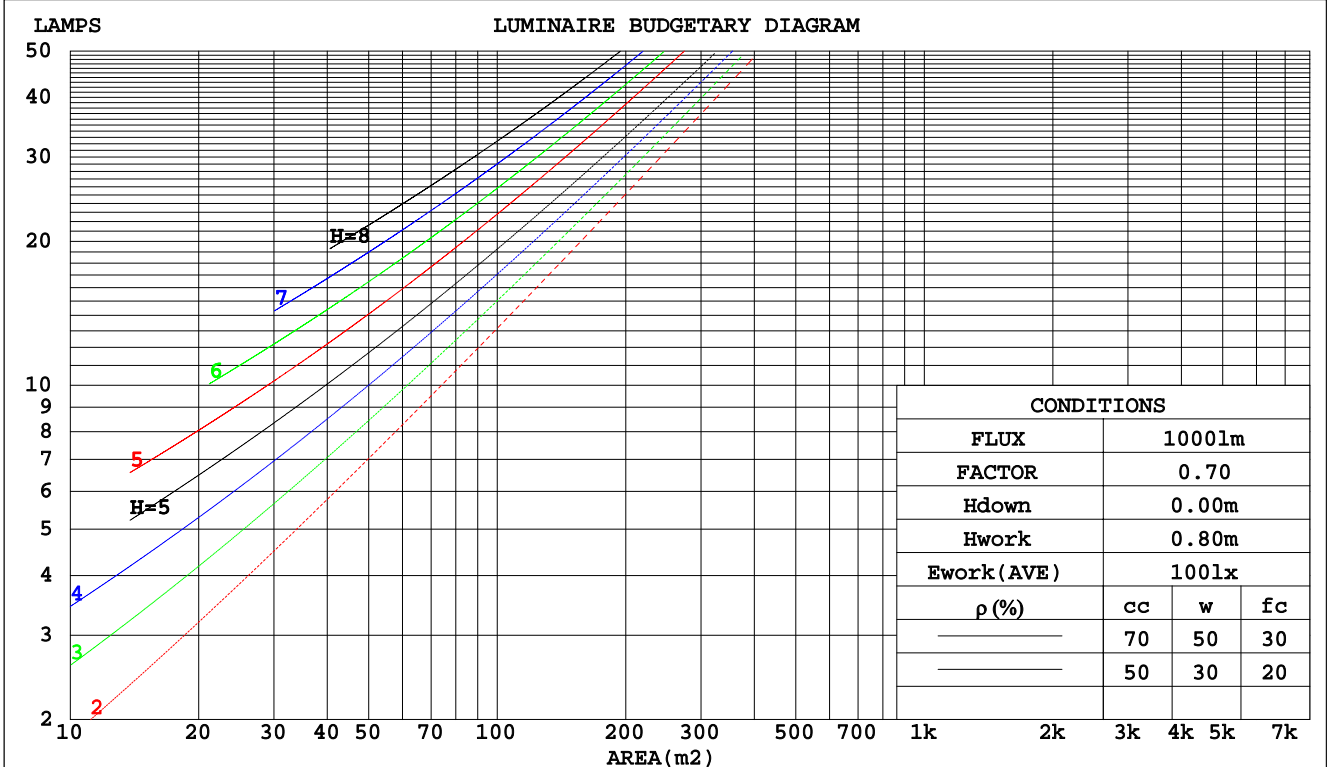
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.96	.90	.85	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.79	.77
3.0	.85	.78	.73	.84	.77	.72	.81	.75	.71	.78	.73	.69	.76	.72	.68	.66
4.0	.76	.68	.62	.75	.68	.62	.73	.66	.61	.70	.65	.60	.68	.64	.60	.58
5.0	.69	.60	.54	.68	.60	.54	.65	.59	.54	.64	.58	.53	.62	.57	.52	.51
6.0	.62	.54	.48	.61	.53	.48	.59	.52	.47	.58	.52	.47	.56	.51	.46	.45
7.0	.56	.48	.42	.56	.48	.42	.54	.47	.42	.53	.46	.42	.51	.46	.41	.40
8.0	.51	.43	.38	.51	.43	.38	.49	.43	.38	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.47	.39	.34	.46	.39	.34	.44	.38	.34	.43	.38	.34	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.35	.30	.29



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.246	.140	.044	.239	.137	.043	.226	.130	.041	.214	.124	.040	.204	.118	.038	
2.0	.243	.133	.041	.237	.130	.040	.225	.125	.039	.215	.121	.038	.205	.116	.037	
3.0	.232	.124	.037	.227	.122	.037	.217	.118	.036	.208	.114	.035	.200	.111	.034	
4.0	.220	.114	.034	.216	.113	.033	.207	.110	.033	.199	.107	.032	.191	.104	.032	
5.0	.208	.106	.031	.204	.105	.030	.196	.102	.030	.189	.100	.030	.182	.097	.029	
6.0	.196	.098	.028	.192	.097	.028	.185	.095	.028	.179	.093	.027	.173	.091	.027	
7.0	.185	.091	.026	.181	.090	.026	.175	.089	.026	.169	.087	.025	.164	.085	.025	
8.0	.174	.085	.024	.171	.084	.024	.166	.083	.024	.160	.081	.023	.156	.080	.023	
9.0	.165	.080	.022	.162	.079	.022	.157	.078	.022	.152	.076	.022	.148	.075	.022	
10.0	.156	.075	.021	.153	.074	.021	.149	.073	.021	.145	.072	.020	.141	.071	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.139	.151	.134	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.104	.142	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.157	.114	.080	.135	.098	.069	.093	.068	.048	.053	.040	.029	.017	.013	.009	
4.0	.150	.100	.063	.128	.087	.054	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.143	.090	.051	.123	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.136	.081	.042	.117	.070	.036	.081	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.130	.074	.035	.112	.064	.031	.077	.045	.022	.045	.027	.013	.015	.009	.004	
8.0	.124	.068	.030	.107	.059	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.026	.102	.055	.023	.071	.039	.016	.041	.023	.010	.013	.008	.003	
10.0	.114	.059	.023	.098	.052	.020	.068	.036	.014	.040	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	24.7	26.1	25.0	26.3	26.5	22.0	23.4	22.3	23.6	23.8
3H	24.9	26.2	25.2	26.4	26.6	21.8	23.1	22.1	23.3	23.6
4H	24.8	26.0	25.1	26.2	26.5	21.7	22.9	22.0	23.2	23.4
6H	24.7	25.8	25.0	26.1	26.4	21.6	22.8	22.0	23.0	23.3
8H	24.7	25.7	25.0	26.0	26.3	21.6	22.7	21.9	22.9	23.2
12H	24.6	25.6	25.0	25.9	26.2	21.5	22.6	21.9	22.9	23.1
4H 2H	24.7	25.9	25.0	26.1	26.4	22.3	23.5	22.7	23.8	24.0
3H	24.9	25.9	25.2	26.2	26.5	22.2	23.2	22.5	23.5	23.8
4H	24.8	25.7	25.2	26.0	26.4	22.1	23.0	22.4	23.3	23.6
6H	24.7	25.5	25.1	25.9	26.2	22.0	22.8	22.4	23.1	23.5
8H	24.7	25.4	25.1	25.8	26.2	21.9	22.7	22.3	23.0	23.4
12H	24.6	25.3	25.1	25.7	26.1	21.9	22.6	22.3	22.9	23.3
8H 4H	24.7	25.4	25.1	25.8	26.2	21.9	22.7	22.3	23.0	23.4
6H	24.6	25.2	25.0	25.6	26.0	21.9	22.5	22.3	22.9	23.3
8H	24.5	25.1	25.0	25.5	25.9	21.8	22.3	22.3	22.8	23.2
12H	24.5	25.0	25.0	25.4	25.9	21.8	22.2	22.2	22.7	23.1
12H 4H	24.6	25.3	25.0	25.7	26.1	21.9	22.6	22.3	23.0	23.4
6H	24.5	25.1	25.0	25.5	25.9	21.8	22.3	22.3	22.8	23.2
8H	24.5	25.0	25.0	25.4	25.9	21.8	22.2	22.2	22.7	23.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.8					+ 1.8 / - 3.6				
1.5H	+ 0.7 / - 1.4					+ 0.9 / - 1.4				
2.0H	+ 1.2 / - 2.5					+ 3.0 / -20.0				

CIE Pub.117 Corrected 8908 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.6)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	51	45	61	51	45	60	51	45	39
0.80	73	63	56	72	62	56	70	61	55	49
1.00	82	73	66	81	72	66	79	73	65	59
1.25	89	80	74	88	80	74	85	78	73	67
1.50	94	86	80	92	85	79	90	83	78	72
2.00	100	93	88	98	92	87	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	101	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	99	103	100	97	89
5.00	111	107	104	109	105	102	104	102	99	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

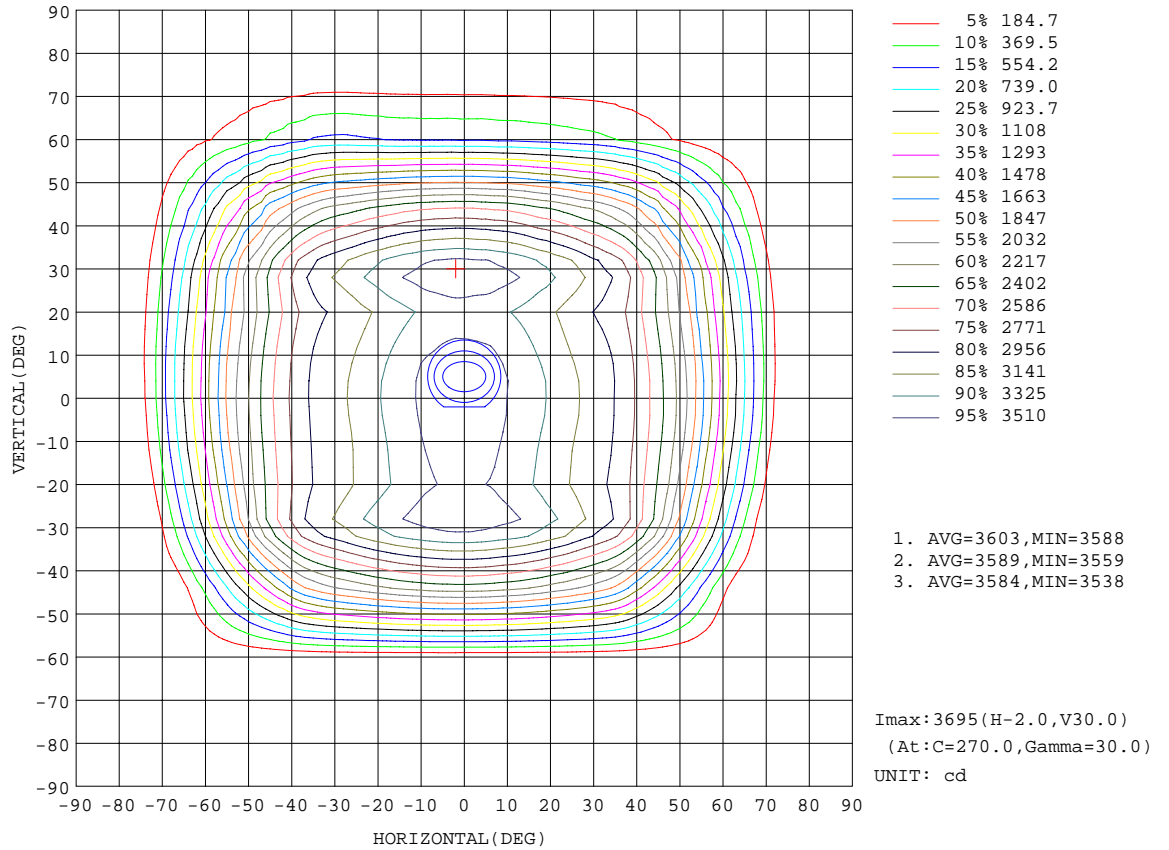
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-31

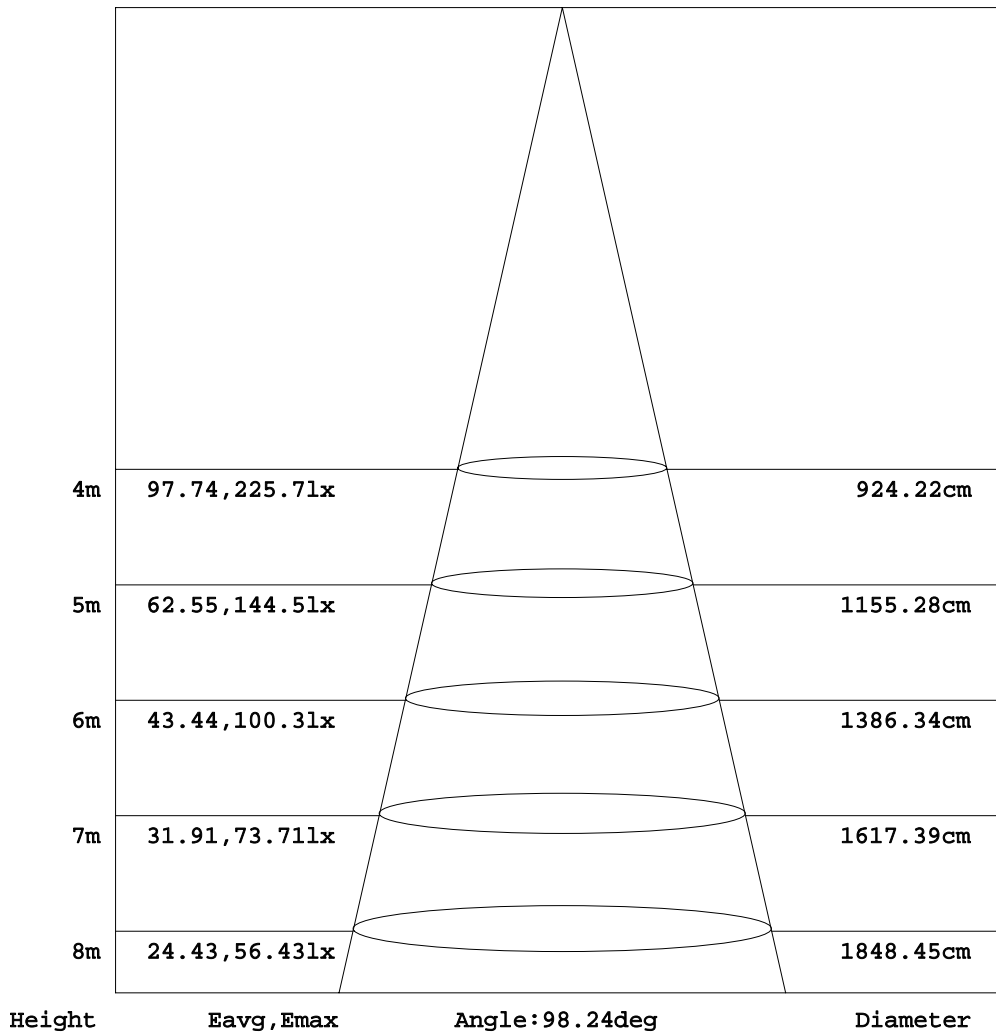
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:6735 lm



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

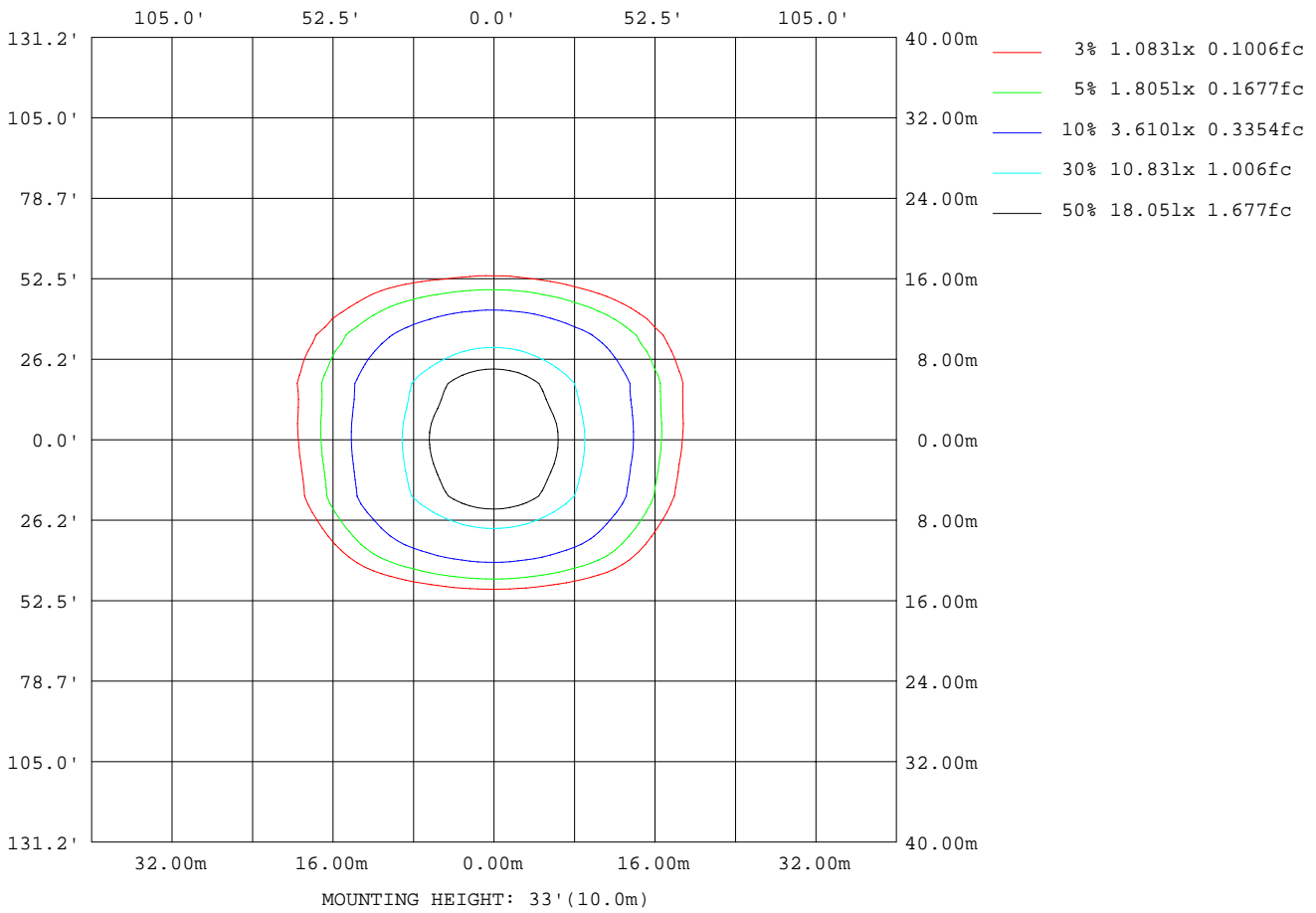
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LED Avg.L Report

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

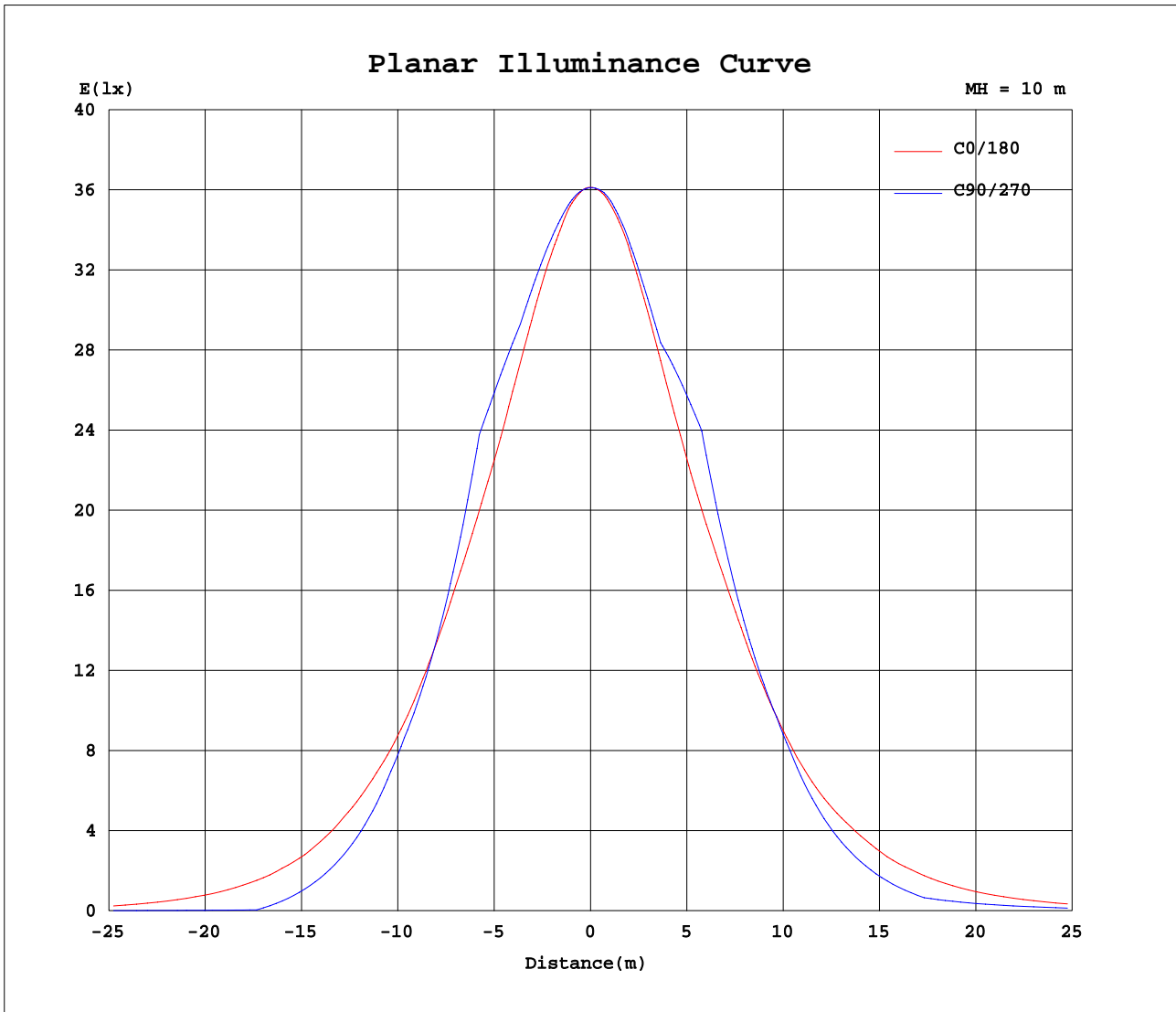
AvgL	cd/m2
L_0~180(65)av	19713
L_0~180(75)av	2974
L_0~180(85)av	647
L_90~270(65)av	4597
L_90~270(75)av	1012
L_90~270(85)av	1045
L_45(65)av	13001
L_45(75)av	3100
L_45(85)av	1157

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1		UNIT: cd																		
C(DEG)		UNIT: cd																		
γ (DEG) \ C (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
0	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612
5	3587	3587	3587	3587	3587	3588	3589	3590	3591	3593	3594	3595	3596	3597	3598	3599	3600	3601	3601	3601
10	3508	3508	3509	3512	3517	3522	3528	3535	3541	3546	3552	3557	3560	3563	3567	3570	3572	3573	3573	3573
15	3417	3416	3419	3423	3427	3432	3438	3447	3457	3469	3483	3499	3515	3528	3535	3541	3548	3551	3552	3552
20	3300	3299	3302	3305	3308	3313	3324	3343	3365	3388	3413	3437	3460	3480	3501	3512	3520	3529	3531	3531
25	3174	3176	3182	3185	3188	3203	3225	3245	3268	3298	3330	3383	3437	3483	3518	3552	3573	3591	3595	3595
30	3077	3077	3080	3079	3085	3098	3119	3148	3189	3259	3325	3395	3462	3518	3562	3595	3630	3651	3659	3659
35	2949	2953	2961	2974	2986	3003	3023	3077	3156	3245	3330	3411	3360	3304	3253	3212	3194	3183	3182	3182
40	2748	2756	2768	2794	2837	2882	2953	3024	3109	3141	3047	2959	2885	2826	2781	2740	2718	2706	2704	2704
45	2476	2485	2500	2534	2594	2689	2810	2933	2807	2678	2572	2489	2410	2353	2306	2268	2229	2208	2202	2202
50	2158	2165	2173	2218	2285	2405	2495	2394	2307	2205	2103	2006	1896	1776	1676	1598	1540	1508	1498	1498
55	1718	1710	1710	1751	1830	1919	1849	1773	1726	1675	1524	1357	1204	1071	963	879	817	781	769	769
60	1220	1197	1190	1218	1280	1227	1178	1141	1087	995	844	671	510	369	253	161	94.0	53.5	40.2	40.2
65	737	703	690	690	656	610	606	583	493	352	177	30.6	31.4	30.4	29.0	28.3	28.0	27.8	27.9	27.9
70	315	269	232	221	158	205	219	144	22.9	21.2	19.7	19.0	19.2	18.3	17.1	16.2	15.8	15.6	15.6	15.6
75	31.3	26.4	25.2	28.3	22.9	36.1	16.3	14.9	13.1	11.3	9.58	8.21	7.26	6.12	5.14	4.83	4.62	4.53	4.56	4.56
80	13.5	13.0	13.1	11.7	10.2	8.88	7.42	5.56	3.97	3.01	3.02	3.04	3.06	3.12	3.19	3.23	3.24	3.27	3.30	3.30
85	4.97	5.85	5.63	5.26	4.07	3.92	3.96	4.02	4.02	3.92	3.82	3.70	3.59	3.52	3.48	3.41	3.33	3.29	3.25	3.25
90	5.16	5.72	5.56	5.28	5.01	4.98	5.03	5.04	5.00	4.84	4.62	4.37	4.12	3.92	3.78	3.60	3.43	3.31	3.21	3.21

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2016-08-31

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Humidity: 65.0%
Test Distance: 7.850m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185		
0	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	
5	3601	3601	3601	3600	3600	3599	3599	3598	3597	3596	3596	3594	3593	3593	3592	3592	3593	3593	3594	3594	
10	3573	3574	3574	3572	3569	3566	3561	3556	3553	3550	3547	3544	3541	3537	3534	3533	3533	3535	3535	3535	
15	3554	3554	3549	3542	3533	3525	3515	3504	3491	3475	3461	3450	3442	3436	3431	3428	3427	3428	3429	3429	
20	3535	3532	3521	3510	3496	3479	3455	3429	3405	3382	3360	3341	3328	3319	3313	3310	3308	3311	3310	3310	
25	3596	3584	3564	3537	3501	3455	3403	3353	3321	3291	3262	3235	3211	3196	3190	3187	3187	3191	3189	3189	
30	3657	3641	3615	3580	3537	3483	3422	3354	3285	3219	3177	3142	3111	3087	3080	3079	3080	3084	3083	3083	
35	3190	3206	3233	3271	3323	3388	3445	3369	3285	3196	3116	3056	3035	3016	2999	2989	2985	2988	2992	2992	
40	2712	2731	2757	2799	2853	2917	3000	3094	3197	3170	3090	3014	2943	2898	2852	2818	2801	2799	2801	2801	
45	2212	2241	2281	2326	2380	2450	2530	2626	2744	2887	3029	2909	2783	2678	2612	2570	2544	2547	2542	2542	
50	1511	1551	1609	1696	1802	1932	2054	2166	2281	2404	2525	2648	2540	2404	2303	2241	2218	2214	2215	2215	
55	783	823	887	977	1092	1230	1396	1586	1760	1869	1928	2023	2133	2028	1933	1867	1859	1873	1885	1885	
60	54.7	96.4	165	260	380	525	697	884	1074	1207	1300	1374	1448	1527	1434	1384	1379	1403	1433	1433	
65	28.6	29.7	31.1	32.7	34.4	36.7	36.8	190	390	560	690	768	816	877	926	886	898	929	960	960	
70	16.1	17.0	18.1	19.5	21.1	22.8	23.5	23.2	24.4	26.1	176	300	338	333	381	409	440	484	523	523	
75	4.75	5.12	5.63	6.30	7.69	9.31	10.8	11.9	13.8	15.6	17.2	18.7	64.5	65.2	43.9	59.8	74.8	123	168	168	
80	3.37	3.49	3.62	3.77	3.92	4.07	4.27	4.46	4.84	5.64	6.81	8.63	10.4	11.9	14.5	15.5	15.1	15.6	17.4	17.4	
85	3.29	3.37	3.49	3.63	3.77	3.90	4.11	4.32	4.61	4.53	4.30	4.13	3.99	4.01	5.65	6.97	6.19	6.30	8.25	8.25	
90	3.21	3.26	3.36	3.47	3.61	3.72	3.94	4.15	4.36	4.39	4.44	4.45	4.43	4.43	4.59	4.77	5.06	3.75	3.42	3.42	

C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 5.0DEG γ Interval: 0.5DEG
 Test Speed: HIGH Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Temperature:25DEG Humidity:65.0%
 Operators: Test Distance:7.850m [K=1.0000]
 Test Date:2016-08-31 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--3

UNIT: cd

C(DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612
5	3594	3595	3596	3598	3599	3601	3603	3605	3607	3608	3608	3609	3609	3608	3608	3608	3608	3607	3607
10	3536	3539	3543	3546	3548	3551	3552	3552	3554	3557	3561	3564	3566	3567	3567	3566	3566	3566	3564
15	3432	3437	3441	3445	3449	3457	3468	3476	3479	3479	3479	3482	3488	3492	3495	3494	3492	3490	3488
20	3313	3315	3317	3320	3327	3333	3340	3349	3360	3375	3391	3398	3401	3411	3418	3423	3418	3414	3411
25	3190	3189	3189	3191	3198	3211	3227	3242	3254	3305	3368	3428	3475	3507	3536	3556	3554	3540	3528
30	3083	3079	3076	3077	3087	3101	3129	3217	3305	3389	3464	3530	3593	3637	3666	3689	3690	3670	3661
35	2996	3000	2993	2988	2985	3052	3152	3262	3366	3460	3432	3395	3357	3337	3315	3307	3300	3292	3306
40	2815	2832	2851	2875	2966	3069	3174	3229	3154	3095	3041	3000	2971	2948	2927	2914	2909	2904	2911
45	2563	2583	2623	2735	2883	3027	2952	2854	2768	2705	2655	2612	2586	2559	2524	2498	2492	2489	2503
50	2229	2264	2360	2522	2656	2609	2539	2473	2395	2314	2224	2118	2025	1955	1900	1866	1854	1858	1884
55	1911	1955	2084	2192	2175	2137	2108	2040	1908	1752	1608	1488	1379	1301	1240	1206	1190	1199	1222
60	1464	1557	1685	1694	1667	1699	1556	1428	1301	1155	1003	863	739	649	580	546	525	540	561
65	1002	1116	1150	1194	1146	1044	945	811	690	577	530	470	423	394	374	369	361	365	362
70	573	631	673	673	598	477	363	373	367	361	326	281	247	222	208	202	196	199	201
75	224	269	278	234	188	191	191	181	165	145	115	86.2	66.3	57.6	52.2	49.3	47.8	48.6	50.8
80	21.2	45.9	44.1	68.7	69.5	54.9	39.7	27.0	26.9	26.6	26.2	25.7	25.1	24.6	24.2	23.9	23.6	23.6	23.7
85	10.0	11.6	12.7	14.2	15.3	15.9	16.4	16.6	16.6	16.5	16.3	16.0	15.7	15.5	15.3	15.1	15.0	14.9	15.0
90	3.95	4.67	5.10	5.50	5.77	6.07	6.23	6.29	6.35	6.40	6.40	6.35	6.34	6.34	6.33	6.32	6.31	6.31	6.31

C Range: 0 - 360DEG γ Range: 0 - 90DEG
 C Interval: 5.0DEG γ Interval: 0.5DEG
 Test Speed: HIGH Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Temperature:25DEG Humidity:65.0%
 Operators: Test Distance:7.850m [K=1.0000]
 Test Date:2016-08-31 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.6607A P:79.47W PF:0.9963 Lamp Flux:8908.19x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612	3612				
5	3607	3606	3605	3605	3604	3603	3600	3598	3596	3594	3592	3591	3589	3588	3588				
10	3563	3562	3560	3559	3558	3554	3551	3546	3541	3534	3529	3523	3518	3513	3510				
15	3487	3487	3485	3478	3468	3461	3458	3455	3448	3443	3439	3435	3431	3424	3419				
20	3409	3404	3388	3374	3364	3354	3344	3333	3323	3315	3311	3309	3309	3306	3301				
25	3504	3461	3412	3357	3297	3245	3228	3215	3205	3198	3190	3184	3182	3181	3176				
30	3618	3572	3511	3439	3357	3282	3202	3118	3087	3074	3068	3069	3073	3079	3078				
35	3316	3339	3361	3384	3424	3319	3223	3124	3027	2963	2962	2965	2969	2964	2956				
40	2930	2946	2961	3000	3042	3102	3169	3097	3000	2913	2831	2807	2784	2768	2754				
45	2542	2553	2567	2609	2653	2703	2766	2849	2942	2807	2668	2567	2520	2496	2479				
50	1933	1987	2068	2170	2245	2314	2378	2447	2504	2543	2439	2298	2214	2179	2165				
55	1273	1331	1421	1524	1645	1806	1936	2011	2015	2050	2064	1961	1848	1764	1731				
60	615	681	771	877	1011	1155	1301	1428	1531	1514	1487	1523	1382	1284	1246				
65	368	373	379	387	397	499	644	786	884	958	966	946	921	832	771				
70	207	216	225	237	246	241	230	211	323	423	481	489	453	410	357				
75	54.7	59.8	72.1	87.7	103	111	115	109	96.3	73.7	113	161	136	98.7	60.1				
80	23.9	24.1	24.4	24.6	24.6	24.5	24.1	29.5	33.2	31.1	23.8	19.1	19.6	16.5	14.8				
85	15.1	15.2	15.4	15.5	15.5	15.4	15.2	14.7	14.0	13.1	11.9	10.5	9.34	8.26	7.22				
90	6.31	6.32	6.40	6.47	6.52	6.49	6.45	6.38	6.15	5.93	5.53	5.10	4.64	4.19	4.08				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-31

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks: