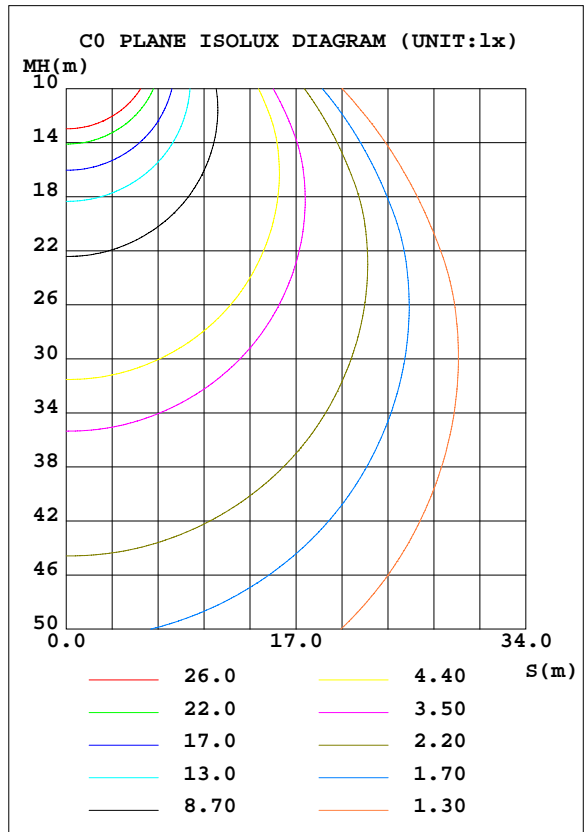
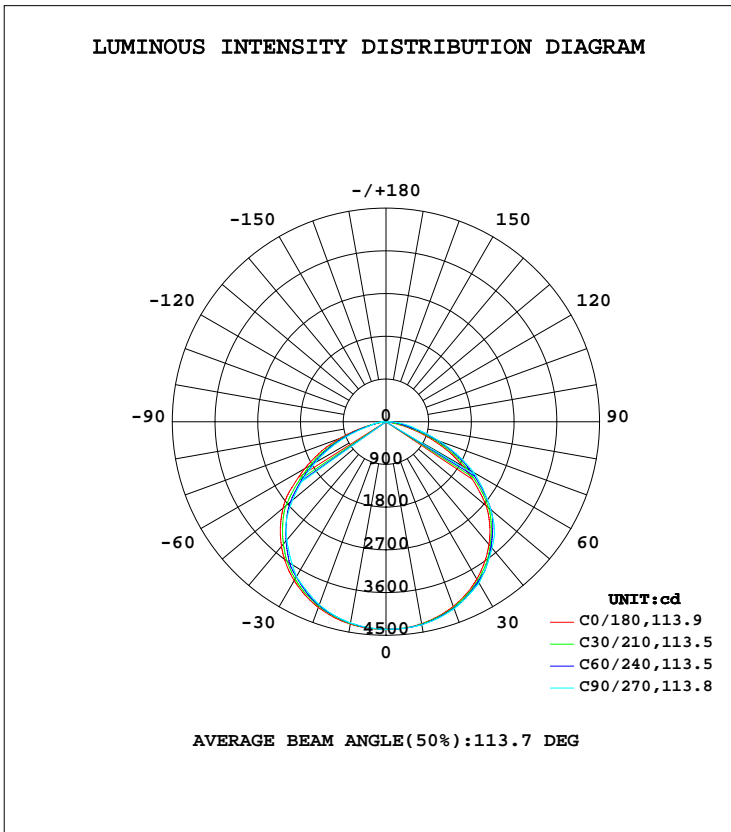


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.66 lm/W			
MODEL		I _{max} (cd)	4373	S/MH(C0/180)	1.31
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	12388	η UP, DN(C0-180)	0.0,52.1
NOMINAL FLUX(lm)	12387.8	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,47.9
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:2016-08-04

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=1.0191]
 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	4365	4368	4367	4363	4363	4357	4353	4355	0- 5	104.4	104.4	0.84,0.84
10	4320	4332	4345	4336	4328	4311	4304	4304	5- 10	310.6	415.0	3.35,3.35
15	4245	4267	4282	4280	4261	4235	4220	4224	10- 15	508.5	923.5	7.46,7.46
20	4141	4170	4196	4188	4162	4127	4107	4110	15- 20	692.2	1616	13,13
25	4004	4044	4059	4062	4031	3985	3938	3965	20- 25	855.7	2471	20,20
30	3829	3877	3922	3900	3867	3802	3769	3773	25- 30	993.5	3465	28,28
35	3619	3675	3698	3712	3665	3587	3509	3547	30- 35	1101	4566	36.9,36.9
40	3375	3448	3474	3499	3425	3343	3249	3291	35- 40	1170	5735	46.3,46.3
45	3091	3151	3235	3205	3147	2997	2973	2935	40- 45	1200	6935	56,56
50	2751	2841	2879	2903	2831	2633	2566	2557	45- 50	1185	8120	65.5,65.5
55	2303	2485	2508	2574	2422	2247	2143	2159	50- 55	1110	9229	74.5,74.5
60	1865	2018	2136	2114	1974	1791	1720	1697	55- 60	983.4	10213	82.4,82.4
65	1422	1564	1670	1662	1530	1338	1269	1240	60- 65	821.2	11034	89.1,89.1
70	931.3	1116	1204	1210	1043	903.4	817.1	808.5	65- 70	623.5	11657	94.1,94.1
75	473.4	662.4	760.1	747.4	560.0	499.5	398.7	430.6	70- 75	404.8	12062	97.4,97.4
80	108.9	273.6	494.5	339.4	156.3	154.4	246.1	114.9	75- 80	206.9	12269	99,99
85	8.153	136.1	251.1	169.1	8.873	78.12	126.8	58.66	80- 85	89.37	12359	99.8,99.8
90	7.816	8.990	7.757	8.075	6.119	6.985	7.449	7.414	85- 90	29.20	12388	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): 6935 lm

%lum = 56.0%
%lamp = 56.0%

Conical surface Flux(120deg): 10213 lm

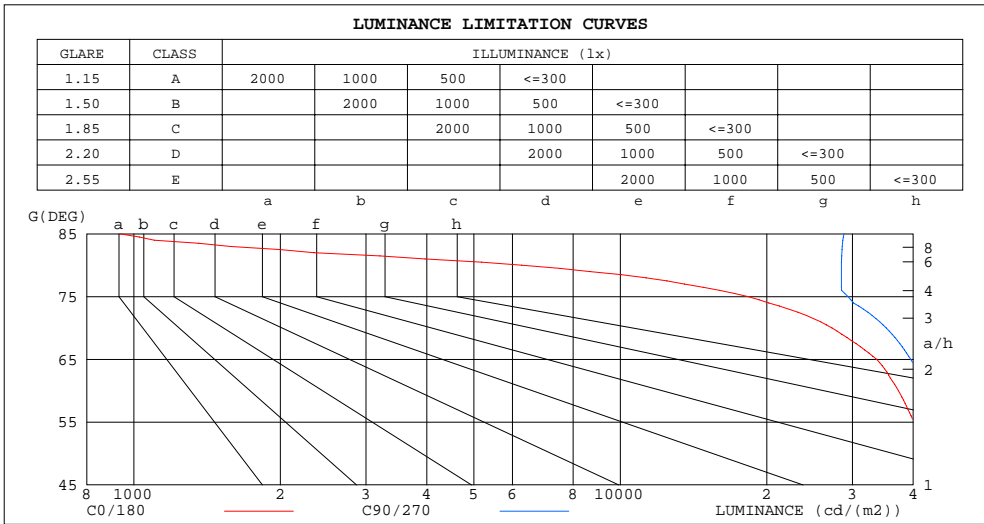
%lum = 82.4%
%lamp = 82.4%

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-08-04

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=1.0191]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	935	28813
80	6271	28477
75	18292	29370
70	27230	35204
65	33644	39521
60	37297	42728
55	40149	43719
50	42796	44787
45	43715	45755

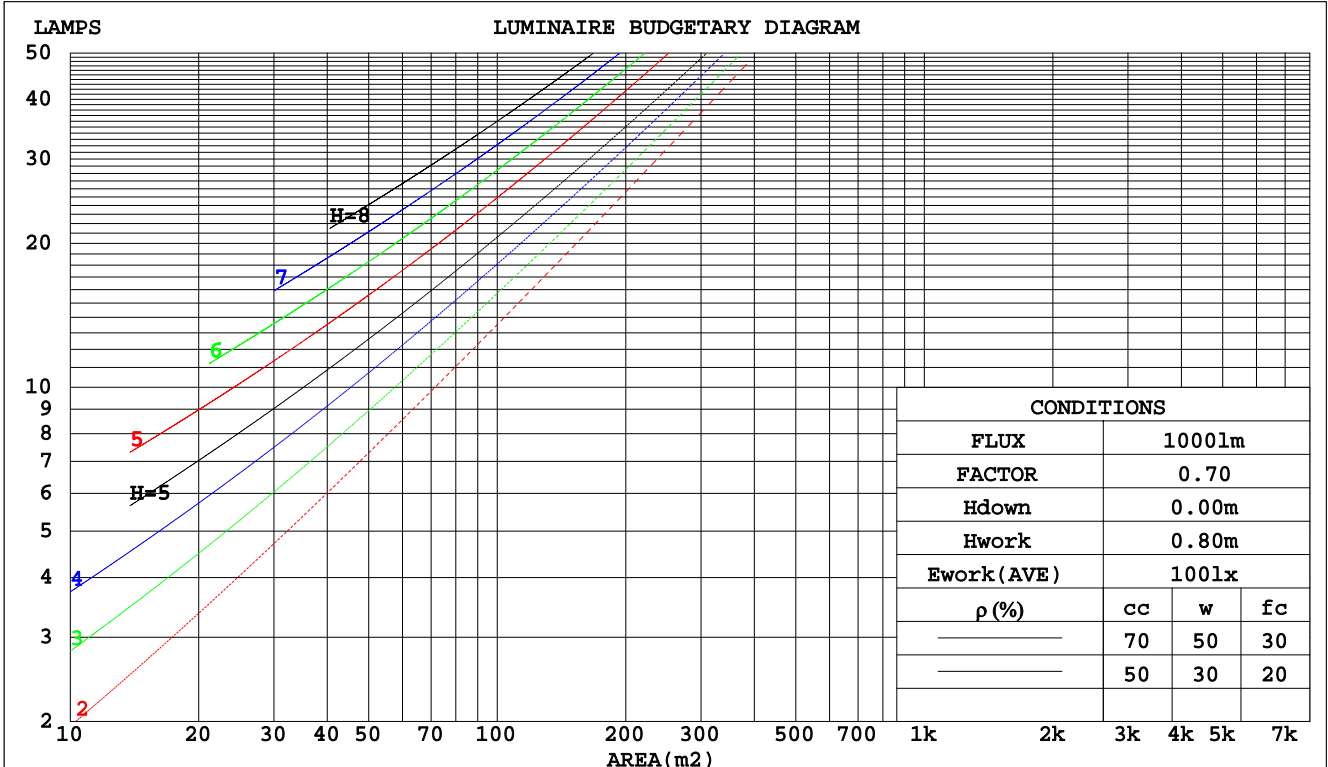
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			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	1.05	1.01	.97	1.03	.99	.96	.98	.95	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.60
4.0	.72	.63	.57	.70	.62	.56	.68	.61	.55	.66	.60	.55	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.47	.41	.52	.46	.41	.39
7.0	.52	.44	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

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	.289	.164	.052	.282	.161	.051	.269	.154	.049	.257	.148	.048	.246	.142	.046	
2.0	.278	.152	.047	.272	.150	.046	.260	.145	.045	.249	.140	.044	.240	.135	.043	
3.0	.260	.139	.041	.255	.136	.041	.245	.133	.040	.235	.129	.040	.226	.125	.039	
4.0	.242	.126	.037	.237	.124	.037	.228	.121	.036	.220	.118	.036	.212	.115	.035	
5.0	.225	.115	.033	.221	.113	.033	.213	.111	.033	.206	.108	.032	.198	.106	.032	
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.196	.097	.027	.193	.096	.027	.186	.094	.027	.180	.092	.027	.175	.091	.027	
8.0	.184	.090	.025	.180	.089	.025	.175	.087	.025	.169	.086	.025	.164	.084	.025	
9.0	.172	.083	.023	.170	.083	.023	.164	.081	.023	.160	.080	.023	.155	.079	.023	
10.0	.162	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.147	.074	.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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.052	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.049	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.100	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

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	25.9	27.4	26.1	27.6	27.8	26.3	27.8	26.5	28.0	28.2
3H	26.9	28.3	27.2	28.5	28.8	27.6	29.0	27.9	29.2	29.5
4H	27.2	28.5	27.5	28.7	29.0	28.1	29.4	28.4	29.6	29.9
6H	27.2	28.4	27.5	28.7	28.9	28.4	29.6	28.7	29.9	30.2
8H	27.1	28.3	27.4	28.6	28.9	28.5	29.7	28.9	30.0	30.3
12H	27.1	28.2	27.4	28.5	28.8	28.6	29.8	29.0	30.1	30.4
4H 2H	26.5	27.8	26.8	28.0	28.3	26.8	28.1	27.1	28.4	28.6
3H	27.7	28.8	28.0	29.1	29.4	28.3	29.4	28.6	29.7	30.0
4H	28.0	29.0	28.4	29.3	29.7	28.8	29.8	29.2	30.2	30.5
6H	28.0	28.9	28.4	29.3	29.7	29.2	30.2	29.6	30.5	30.9
8H	28.0	28.8	28.4	29.2	29.6	29.4	30.3	29.8	30.7	31.0
12H	27.9	28.7	28.4	29.1	29.5	29.6	30.4	30.0	30.8	31.2
8H 4H	28.2	29.0	28.6	29.4	29.8	28.9	29.8	29.3	30.1	30.5
6H	28.3	29.0	28.7	29.4	29.8	29.4	30.2	29.9	30.6	31.0
8H	28.2	28.9	28.7	29.3	29.7	29.7	30.3	30.2	30.8	31.2
12H	28.2	28.7	28.7	29.2	29.7	30.0	30.5	30.5	31.0	31.4
12H 4H	28.2	28.9	28.6	29.3	29.7	28.9	29.6	29.3	30.0	30.4
6H	28.3	28.9	28.7	29.3	29.8	29.4	30.1	29.9	30.5	30.9
8H	28.3	28.8	28.7	29.2	29.7	29.8	30.3	30.2	30.7	31.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.4				
2.0H	+ 0.4 / - 0.5					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 12388 lm Total Lamp Luminous Flux. (8log(F/F0) = 8.7)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

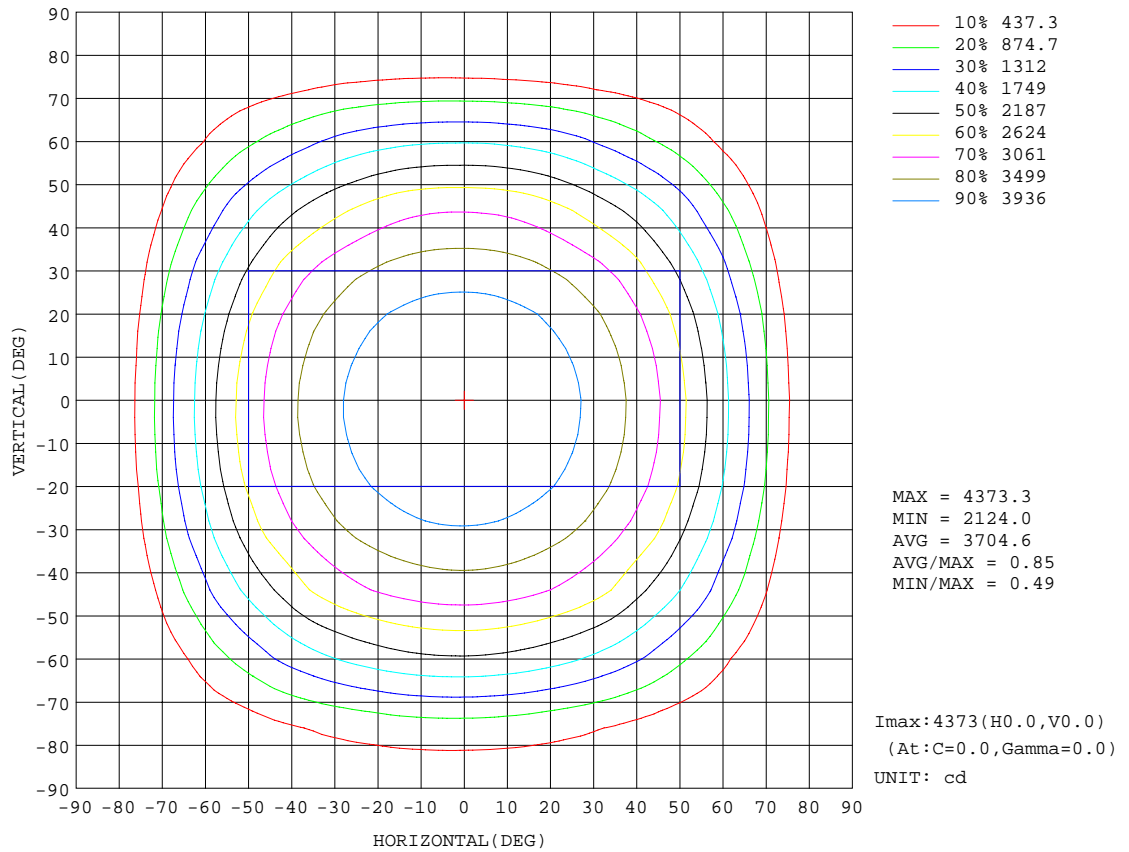
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	57	46	40	56	46	39	33
0.80	69	57	50	68	57	50	66	56	49	42
1.00	77	66	59	76	66	59	74	67	59	52
1.25	84	74	67	83	74	67	80	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	94	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	97	105	100	96	101	97	93	85
5.00	109	105	101	107	103	100	103	99	96	87
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: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

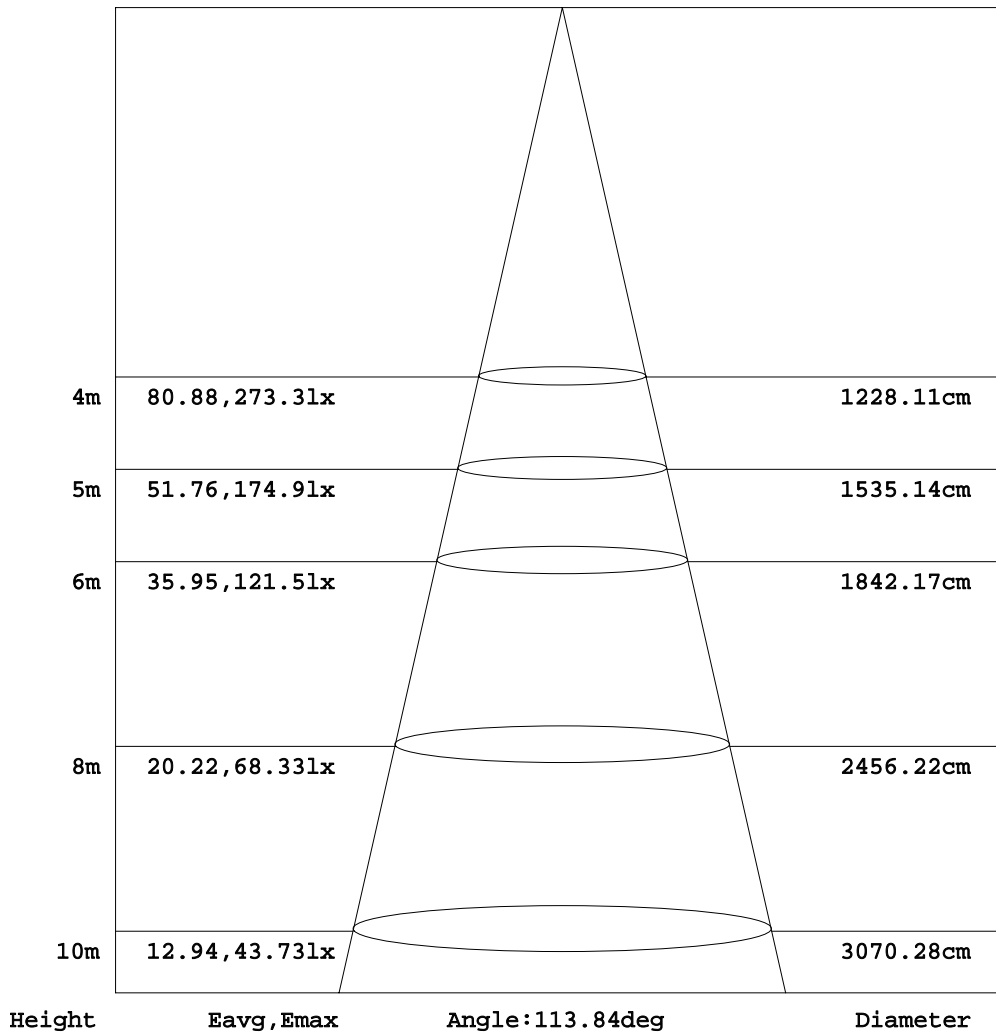


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

AAI Figure

Flux out:9640 lm



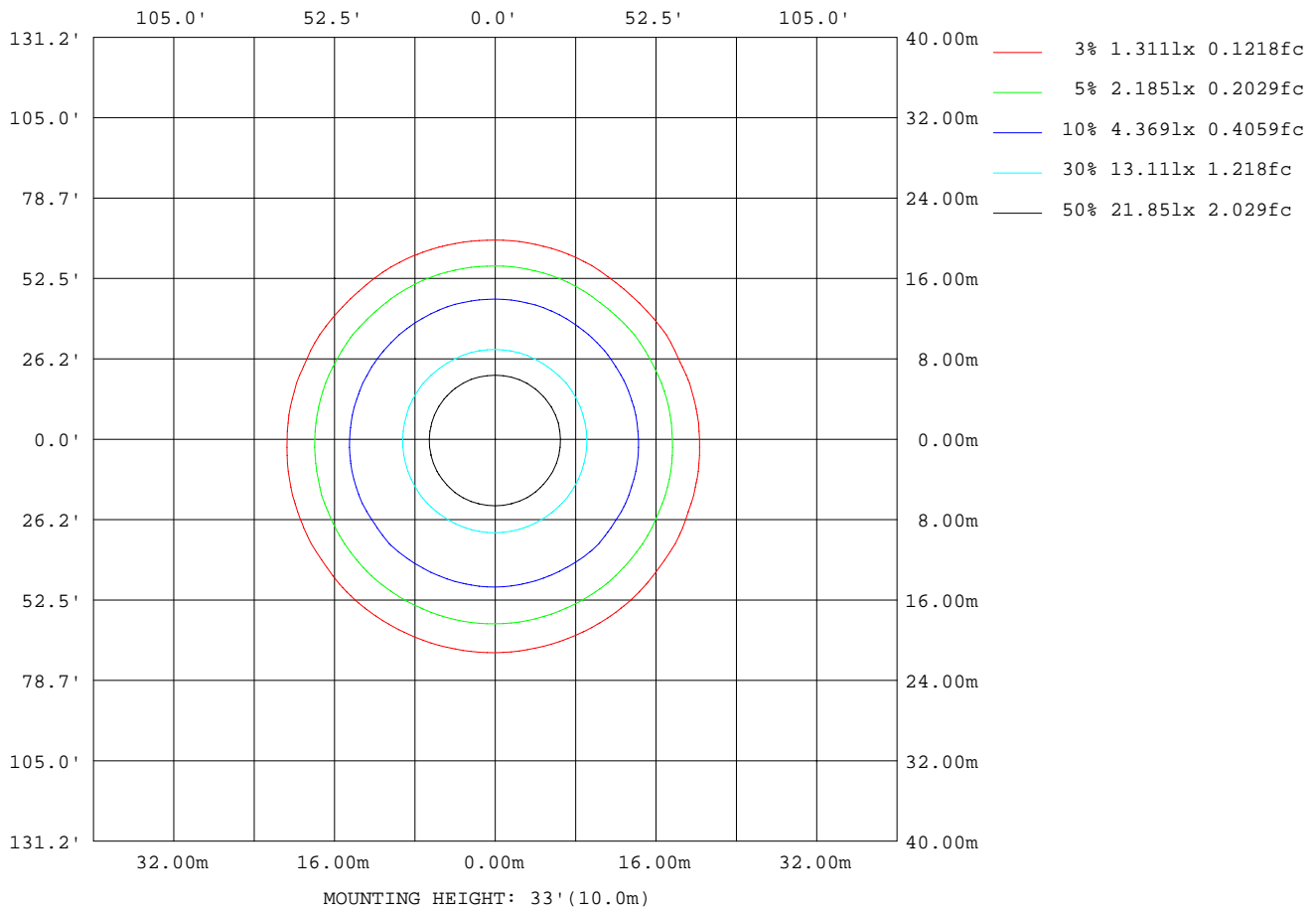
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

LED Avg.L Report

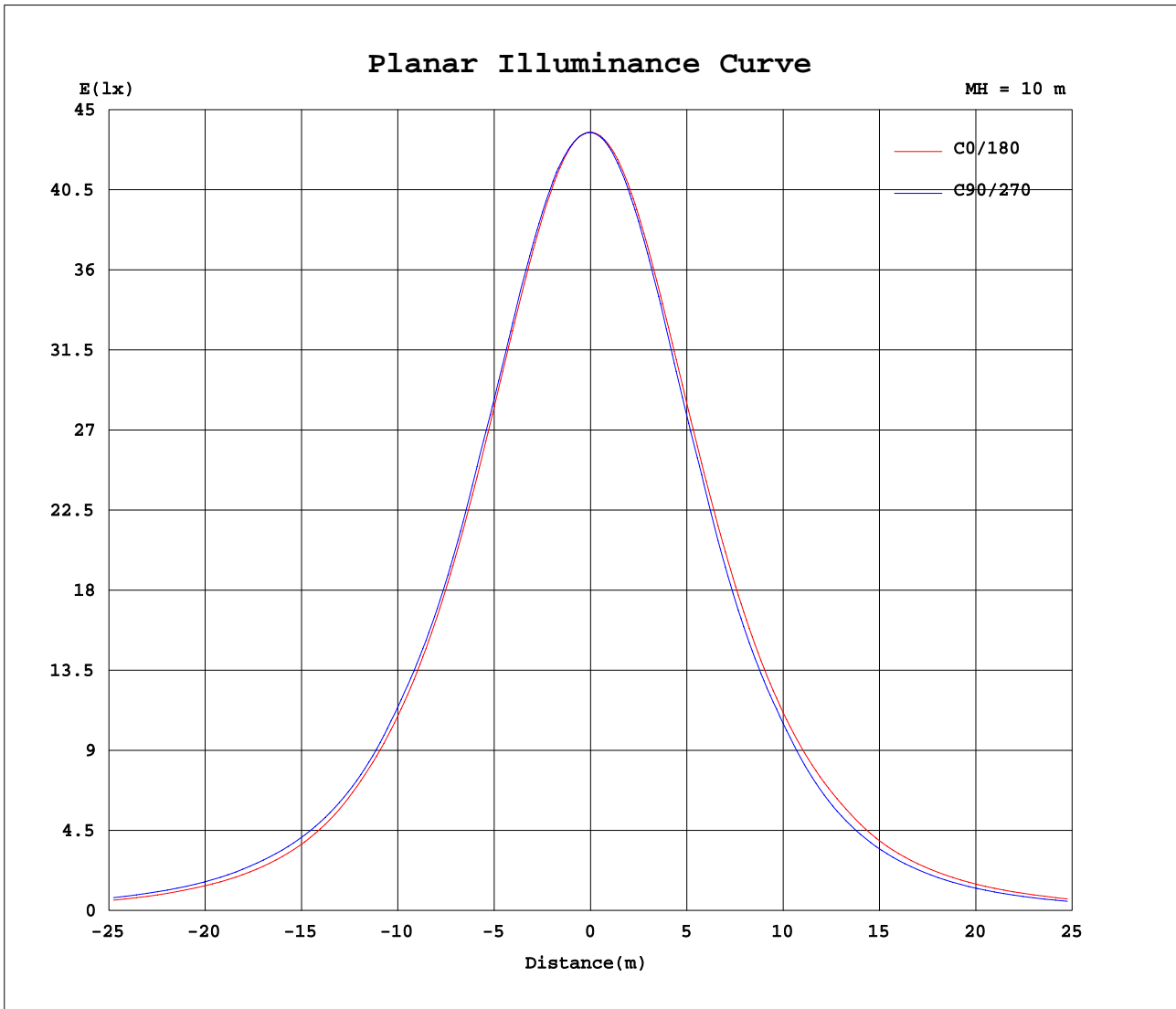
AvgL	cd/m2
L_0~180(65)av	34928
L_0~180(75)av	19964
L_0~180(85)av	977
L_90~270(65)av	34770
L_90~270(75)av	22388
L_90~270(85)av	21681
L_45(65)av	34336
L_45(75)av	22601
L_45(85)av	12679

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

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	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373
5	4365	4365	4365	4365	4365	4365	4366	4366	4367	4368	4368	4369	4368	4368	4368	4368	4368	4367	4367
10	4320	4320	4320	4321	4323	4326	4327	4329	4330	4332	4333	4335	4337	4339	4341	4342	4344	4344	4345
15	4245	4245	4246	4249	4252	4255	4257	4261	4266	4267	4267	4269	4271	4274	4277	4279	4280	4281	4282
20	4141	4140	4142	4146	4150	4156	4162	4164	4166	4170	4173	4176	4180	4183	4186	4190	4192	4194	4196
25	4004	4003	4007	4012	4018	4023	4027	4033	4038	4044	4052	4051	4050	4051	4052	4053	4056	4057	4059
30	3829	3829	3836	3845	3852	3858	3864	3871	3879	3877	3878	3883	3888	3895	3902	3909	3916	3920	3922
35	3619	3620	3629	3643	3647	3655	3667	3666	3668	3675	3687	3703	3699	3694	3693	3693	3694	3697	3698
40	3375	3376	3388	3396	3405	3417	3416	3422	3436	3448	3442	3440	3442	3447	3454	3460	3466	3472	3474
45	3091	3091	3112	3116	3128	3131	3138	3158	3150	3151	3157	3168	3181	3196	3212	3226	3230	3233	3235
50	2751	2755	2780	2794	2801	2809	2820	2800	2810	2841	2866	2886	2889	2877	2872	2872	2873	2876	2879
55	2303	2314	2332	2353	2363	2393	2401	2403	2432	2485	2496	2480	2474	2473	2478	2486	2494	2502	2508
60	1865	1878	1898	1908	1924	1927	1958	1983	1997	2018	2041	2047	2054	2066	2081	2098	2114	2128	2136
65	1422	1435	1455	1465	1463	1501	1519	1518	1534	1564	1589	1606	1616	1625	1633	1645	1654	1663	1670
70	931	943	957	972	999	1019	1041	1051	1081	1116	1128	1139	1149	1157	1167	1179	1188	1198	1204
75	473	483	494	517	546	553	592	621	642	662	670	683	688	693	705	726	741	754	760
80	109	118	132	150	176	211	226	230	240	274	314	360	390	416	442	463	478	489	494
85	8.15	9.48	11.7	16.6	14.7	23.0	47.4	78.1	107	136	159	182	198	212	224	235	243	249	251
90	7.82	8.97	8.38	8.10	7.71	7.64	7.77	8.08	8.56	8.99	9.00	8.89	8.70	8.52	8.36	8.21	8.08	7.94	7.76

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04
 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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

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	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373
5	4366	4366	4365	4365	4364	4364	4364	4363	4363	4362	4362	4362	4362	4362	4362	4362	4362	4363	4361
10	4344	4342	4341	4340	4338	4337	4336	4336	4336	4336	4337	4336	4335	4333	4331	4329	4329	4328	4325
15	4282	4282	4282	4282	4281	4280	4280	4279	4280	4280	4277	4275	4273	4271	4269	4264	4262	4261	4255
20	4195	4195	4194	4193	4191	4191	4190	4190	4188	4185	4183	4182	4177	4173	4171	4168	4163	4162	4155
25	4060	4060	4060	4060	4061	4062	4065	4066	4062	4060	4058	4053	4049	4045	4042	4039	4033	4031	4022
30	3924	3923	3919	3915	3911	3907	3903	3900	3900	3903	3899	3898	3892	3885	3880	3878	3871	3867	3859
35	3701	3702	3704	3708	3715	3725	3734	3721	3712	3707	3705	3707	3700	3691	3682	3677	3673	3665	3658
40	3475	3474	3472	3470	3472	3474	3477	3485	3499	3489	3473	3469	3470	3462	3450	3443	3438	3425	3418
45	3237	3237	3239	3231	3224	3217	3212	3207	3205	3210	3223	3203	3193	3190	3183	3169	3162	3147	3139
50	2881	2884	2890	2898	2912	2930	2934	2919	2903	2890	2884	2905	2890	2876	2873	2859	2850	2831	2826
55	2510	2511	2511	2512	2514	2523	2535	2558	2574	2533	2497	2503	2525	2493	2490	2470	2446	2422	2401
60	2138	2137	2133	2123	2113	2109	2111	2117	2114	2097	2085	2065	2046	2047	2020	2006	1987	1974	1955
65	1675	1677	1681	1678	1674	1677	1680	1673	1662	1642	1615	1621	1608	1588	1588	1567	1546	1530	1516
70	1210	1211	1214	1209	1207	1208	1211	1208	1210	1186	1158	1146	1146	1114	1102	1086	1072	1043	1030
75	765	763	759	745	743	744	747	750	747	728	713	694	660	640	620	598	580	560	540
80	497	493	486	469	453	433	408	379	339	312	295	293	276	241	215	190	175	156	151
85	252	250	247	238	230	219	206	191	169	142	109	76.3	42.9	23.2	27.3	17.0	11.3	8.87	8.88
90	7.78	8.12	8.30	8.25	8.06	7.79	7.79	7.98	8.07	7.91	7.55	7.17	6.88	6.80	6.97	7.32	7.64	6.12	6.21

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=1.0191]
 Test Date:2016-08-04 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

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	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373
5	4360	4359	4358	4358	4357	4357	4357	4357	4357	4357	4356	4355	4355	4354	4354	4354	4353	4353	4353
10	4322	4320	4319	4318	4316	4315	4313	4311	4309	4307	4306	4306	4305	4305	4305	4304	4304	4304	4304
15	4252	4250	4247	4244	4240	4239	4238	4235	4231	4229	4228	4226	4225	4224	4222	4221	4220	4219	4218
20	4152	4148	4143	4140	4138	4132	4129	4127	4124	4121	4117	4115	4113	4111	4109	4108	4107	4106	4106
25	4018	4011	4005	4001	3998	3996	3991	3985	3982	3974	3965	3958	3953	3948	3943	3940	3938	3938	3939
30	3854	3844	3837	3833	3828	3822	3818	3802	3791	3783	3779	3778	3777	3776	3773	3771	3769	3769	3769
35	3648	3640	3635	3627	3618	3604	3593	3587	3585	3585	3564	3549	3538	3529	3520	3513	3509	3509	3512
40	3405	3399	3396	3384	3363	3352	3352	3343	3308	3287	3274	3269	3267	3264	3259	3254	3249	3247	3248
45	3127	3121	3108	3089	3079	3082	3032	2997	2973	2964	2970	2982	2992	2997	2989	2979	2973	2970	2975
50	2810	2797	2764	2743	2747	2695	2655	2633	2625	2625	2629	2624	2615	2600	2586	2573	2566	2566	2571
55	2379	2356	2334	2316	2291	2276	2258	2247	2225	2207	2194	2190	2182	2172	2160	2148	2143	2143	2143
60	1943	1917	1906	1869	1853	1850	1818	1791	1778	1774	1766	1762	1751	1744	1733	1724	1720	1721	1715
65	1497	1484	1437	1428	1417	1382	1357	1338	1331	1338	1336	1324	1308	1298	1284	1275	1269	1269	1264
70	1006	984	977	954	944	926	911	903	900	900	895	877	861	849	835	826	817	816	812
75	530	517	515	499	507	521	514	500	486	474	457	434	419	417	411	408	399	395	387
80	146	151	158	181	179	160	148	154	181	206	222	231	242	248	250	251	246	242	233
85	11.1	15.4	10.5	15.4	25.0	42.6	60.2	78.1	92.7	106	114	119	125	128	129	129	127	125	120
90	6.28	6.39	6.48	6.58	6.67	6.76	6.88	6.98	7.12	7.37	7.44	7.50	7.52	7.52	7.52	7.47	7.45	7.45	7.51

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=1.0191]
Test Date: 2016-08-04	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4

UNIT: cd

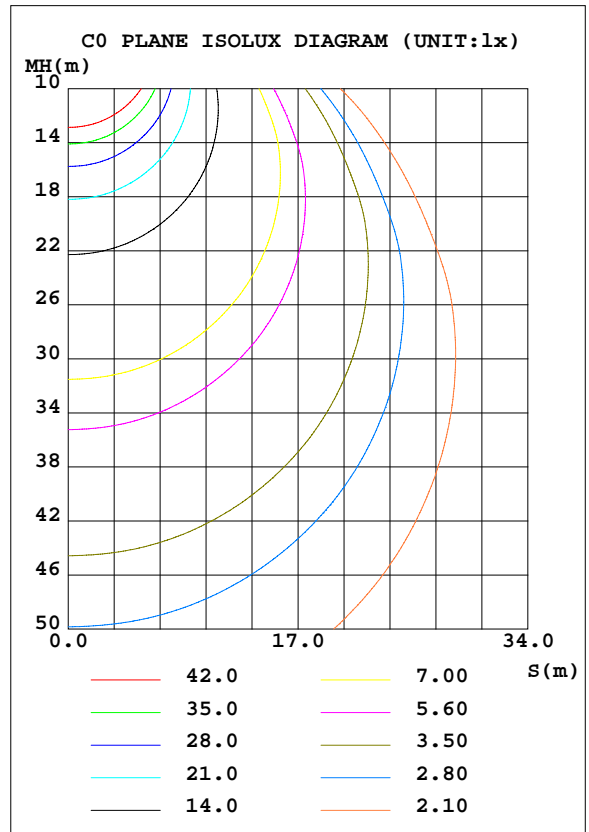
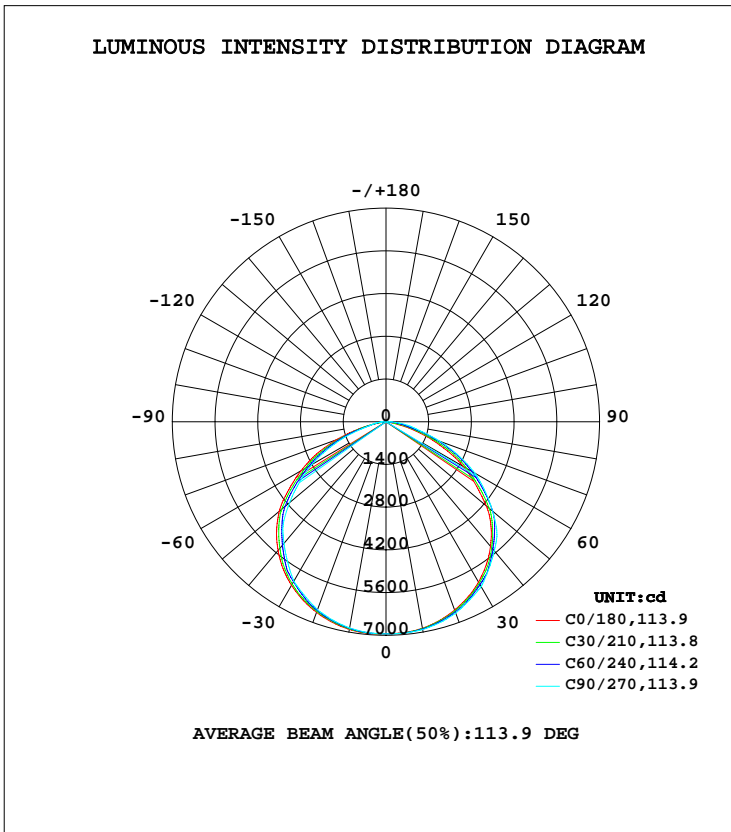
C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373				
5	4353	4353	4354	4354	4355	4355	4355	4355	4356	4357	4357	4358	4360	4361	4363				
10	4303	4303	4302	4303	4302	4303	4304	4305	4306	4307	4308	4309	4311	4313	4316				
15	4218	4218	4219	4219	4219	4221	4224	4227	4226	4226	4228	4230	4233	4235	4239				
20	4106	4106	4106	4105	4107	4108	4110	4110	4113	4118	4119	4120	4124	4128	4133				
25	3941	3943	3946	3951	3958	3966	3965	3965	3968	3972	3977	3981	3984	3989	3994				
30	3766	3764	3761	3760	3761	3765	3773	3788	3791	3795	3800	3808	3812	3816	3820				
35	3515	3520	3526	3537	3552	3548	3547	3553	3566	3581	3582	3587	3599	3601	3606				
40	3246	3243	3239	3239	3245	3261	3291	3301	3303	3313	3332	3335	3343	3352	3359				
45	2975	2960	2945	2927	2917	2916	2935	2969	3017	3013	3019	3041	3048	3067	3070				
50	2574	2578	2582	2580	2569	2557	2557	2578	2613	2639	2638	2673	2691	2709	2720				
55	2143	2143	2143	2137	2135	2140	2159	2173	2176	2182	2211	2222	2247	2259	2275				
60	1712	1710	1707	1697	1684	1684	1697	1725	1753	1751	1759	1793	1806	1829	1845				
65	1265	1267	1266	1261	1235	1231	1240	1255	1278	1303	1293	1316	1348	1380	1401				
70	817	822	823	825	818	812	808	801	809	821	836	854	855	885	908				
75	385	381	387	401	413	422	431	437	430	418	406	418	424	431	449				
80	226	215	199	183	166	140	115	109	117	137	135	106	100	94.1	99.0				
85	116	111	103	94.5	85.8	72.5	58.7	41.9	25.1	15.3	9.57	8.05	10.9	7.84	7.74				
90	7.54	7.57	7.58	7.58	7.58	7.54	7.41	7.32	7.24	7.16	7.07	6.99	6.91	6.83	6.72				

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 25DEG Operators: Test Date: 2016-08-04	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=1.0191] Remarks:
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.50 lm/W			
MODEL		I _{max} (cd)	6959	S/MH(C0/180)	1.32
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	19748	η UP, DN(C0-180)	0.0,51.8
NOMINAL FLUX(lm)	19748.4	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,48.2
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:2016-08-04

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=1.0191]
 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	6936	6944	6951	6957	6958	6945	6932	6927	0- 5	166.1	166.1	0.84,0.84
10	6872	6889	6918	6920	6910	6881	6865	6851	5- 10	494.8	661.0	3.35,3.35
15	6747	6779	6816	6827	6805	6766	6731	6722	10- 15	810.3	1471	7.45,7.45
20	6570	6613	6676	6680	6650	6599	6558	6532	15- 20	1103	2574	13,13
25	6346	6408	6458	6481	6443	6380	6298	6301	20- 25	1363	3937	19.9,19.9
30	6066	6138	6239	6229	6188	6095	6038	5998	25- 30	1583	5520	28,28
35	5729	5814	5880	5925	5882	5758	5620	5635	30- 35	1754	7275	36.8,36.8
40	5331	5448	5521	5583	5503	5375	5203	5220	35- 40	1864	9138	46.3,46.3
45	4869	4947	5138	5119	5071	4857	4762	4656	40- 45	1913	11051	56,56
50	4290	4408	4562	4610	4566	4301	4125	4065	45- 50	1889	12940	65.5,65.5
55	3587	3830	3962	4037	3888	3695	3465	3440	50- 55	1766	14706	74.5,74.5
60	2919	3116	3361	3341	3214	2959	2804	2703	55- 60	1569	16276	82.4,82.4
65	2155	2400	2621	2646	2517	2224	2074	1974	60- 65	1312	17588	89.1,89.1
70	1418	1688	1881	1924	1729	1516	1344	1290	65- 70	994.3	18582	94.1,94.1
75	695.0	1002	1177	1200	927.3	846.3	666.6	676.2	70- 75	646.1	19228	97.4,97.4
80	157.4	405.1	764.6	559.6	269.5	266.7	413.0	171.0	75- 80	330.3	19559	99,99
85	13.56	202.6	388.8	279.9	14.05	134.7	212.3	88.68	80- 85	143.0	19702	99.8,99.8
90	12.78	14.65	13.00	12.54	9.516	10.81	11.69	12.02	85- 90	46.66	19748	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): 11051 lm

%lum = 56.0%
%lamp = 56.0%

Conical surface Flux(120deg): 16276 lm

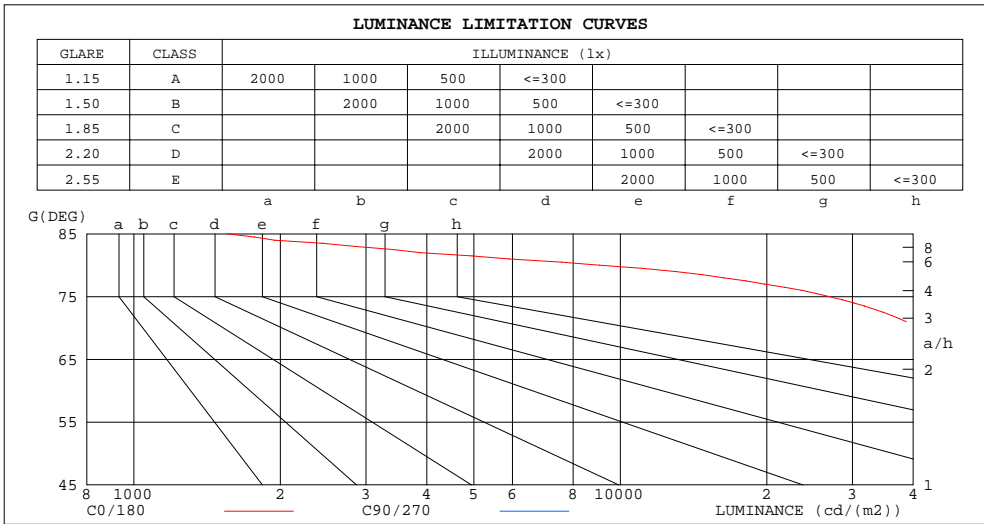
%lum = 82.4%
%lamp = 82.4%

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-08-04

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=1.0191]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1556	44608
80	9062	44030
75	26854	45469
70	41447	54988
65	50988	62020
60	58381	67228
55	62537	69071
50	66734	70973
45	68860	72666

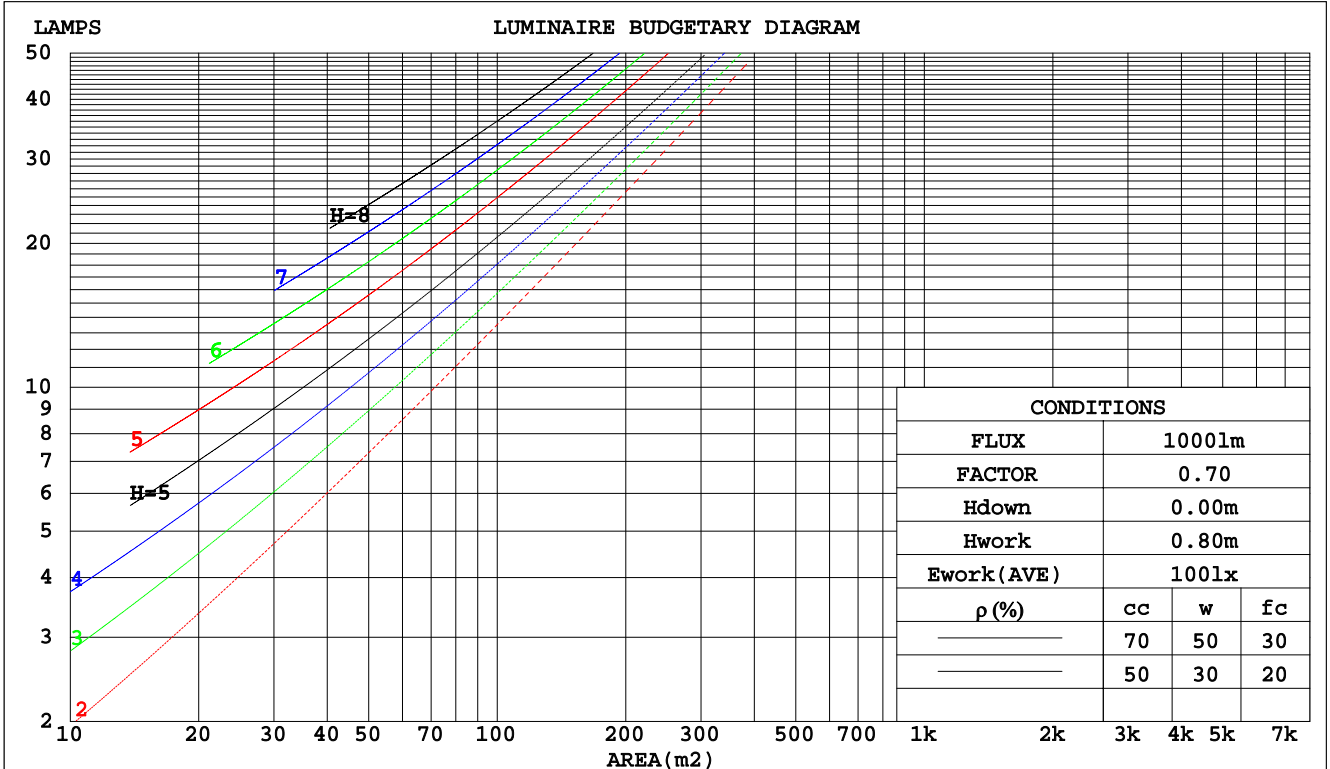
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			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	1.05	1.01	.97	1.03	.99	.96	.98	.95	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.60
4.0	.72	.63	.57	.70	.62	.56	.68	.61	.55	.66	.59	.55	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.47	.41	.52	.46	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

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	.289	.164	.052	.282	.161	.051	.269	.154	.049	.257	.148	.048	.246	.142	.046	
2.0	.278	.152	.047	.272	.150	.046	.260	.145	.045	.249	.140	.044	.240	.136	.043	
3.0	.260	.139	.042	.255	.137	.041	.245	.133	.040	.235	.129	.040	.226	.125	.039	
4.0	.242	.126	.037	.238	.124	.037	.228	.121	.036	.220	.118	.036	.212	.115	.035	
5.0	.225	.115	.033	.221	.114	.033	.213	.111	.033	.206	.108	.032	.199	.106	.032	
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.196	.097	.027	.193	.096	.027	.186	.094	.027	.180	.092	.027	.175	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.169	.086	.025	.164	.084	.025	
9.0	.172	.083	.023	.170	.083	.023	.164	.081	.023	.160	.080	.023	.155	.079	.023	
10.0	.162	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.147	.074	.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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.052	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.049	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.100	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

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	28.8	27.6	29.0	29.2	27.8	29.3	28.1	29.5	29.7
3H	28.4	29.7	28.7	30.0	30.2	29.2	30.5	29.5	30.8	31.0
4H	28.6	29.9	28.9	30.1	30.4	29.6	30.9	29.9	31.1	31.4
6H	28.5	29.8	28.9	30.0	30.3	29.9	31.1	30.2	31.4	31.7
8H	28.5	29.7	28.8	30.0	30.2	30.0	31.2	30.4	31.5	31.8
12H	28.4	29.6	28.8	29.9	30.2	30.1	31.2	30.5	31.5	31.8
4H 2H	27.9	29.2	28.2	29.5	29.7	28.3	29.6	28.6	29.9	30.1
3H	29.1	30.2	29.4	30.5	30.8	29.8	30.9	30.1	31.2	31.5
4H	29.4	30.4	29.7	30.7	31.1	30.3	31.3	30.7	31.6	32.0
6H	29.4	30.3	29.8	30.7	31.0	30.7	31.6	31.1	32.0	32.3
8H	29.4	30.2	29.8	30.6	31.0	30.9	31.8	31.3	32.1	32.5
12H	29.3	30.1	29.7	30.5	30.9	31.1	31.8	31.5	32.2	32.6
8H 4H	29.5	30.4	29.9	30.7	31.1	30.4	31.2	30.8	31.6	32.0
6H	29.6	30.3	30.1	30.7	31.1	30.9	31.6	31.4	32.0	32.4
8H	29.6	30.2	30.0	30.6	31.1	31.2	31.8	31.6	32.2	32.7
12H	29.6	30.1	30.0	30.5	31.0	31.4	32.0	31.9	32.4	32.9
12H 4H	29.5	30.3	30.0	30.7	31.1	30.4	31.1	30.8	31.5	31.9
6H	29.6	30.3	30.1	30.7	31.1	30.9	31.5	31.4	31.9	32.4
8H	29.6	30.1	30.1	30.6	31.1	31.2	31.7	31.7	32.2	32.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.4				
2.0H	+ 0.4 / - 0.5					+ 0.3 / - 0.3				

CIE Pub.117 Corrected 19748 lm Total Lamp Luminous Flux. (8log(F/F0) = 10.4)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

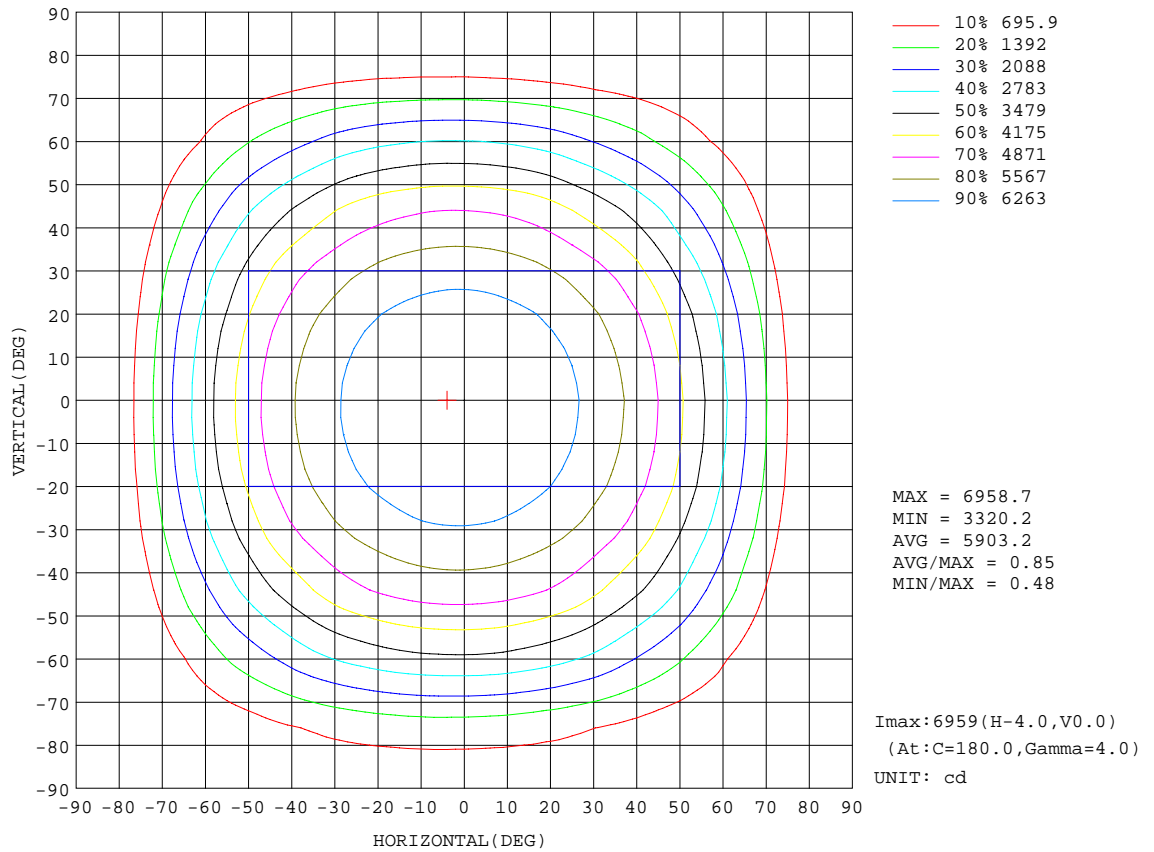
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	57	46	40	56	46	39	33
0.80	69	57	50	68	57	50	66	56	49	42
1.00	77	66	59	76	66	59	74	67	58	52
1.25	84	74	67	83	74	67	80	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	94	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	91	97	92	88	80
4.00	107	102	97	105	100	96	101	97	93	85
5.00	109	105	101	107	103	99	103	99	96	87
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: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

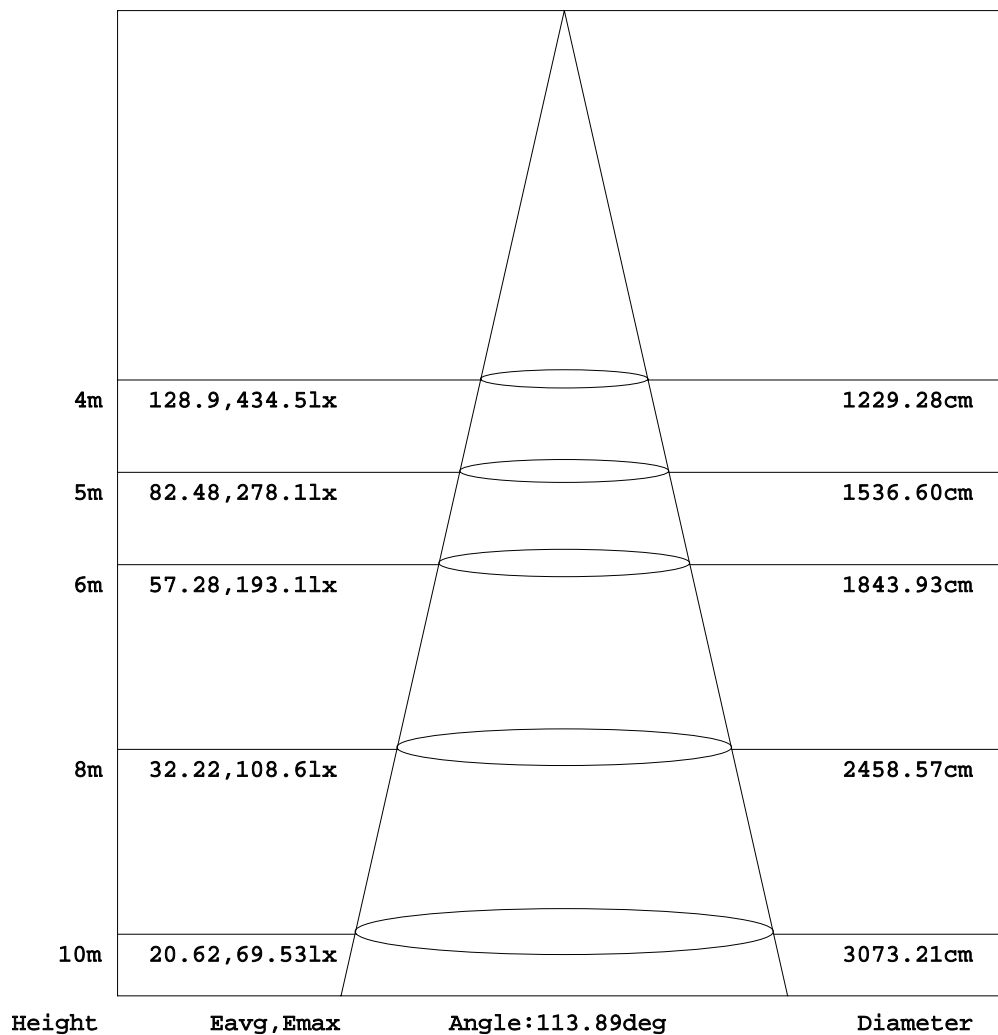


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

AAI Figure

Flux out:15361 lm



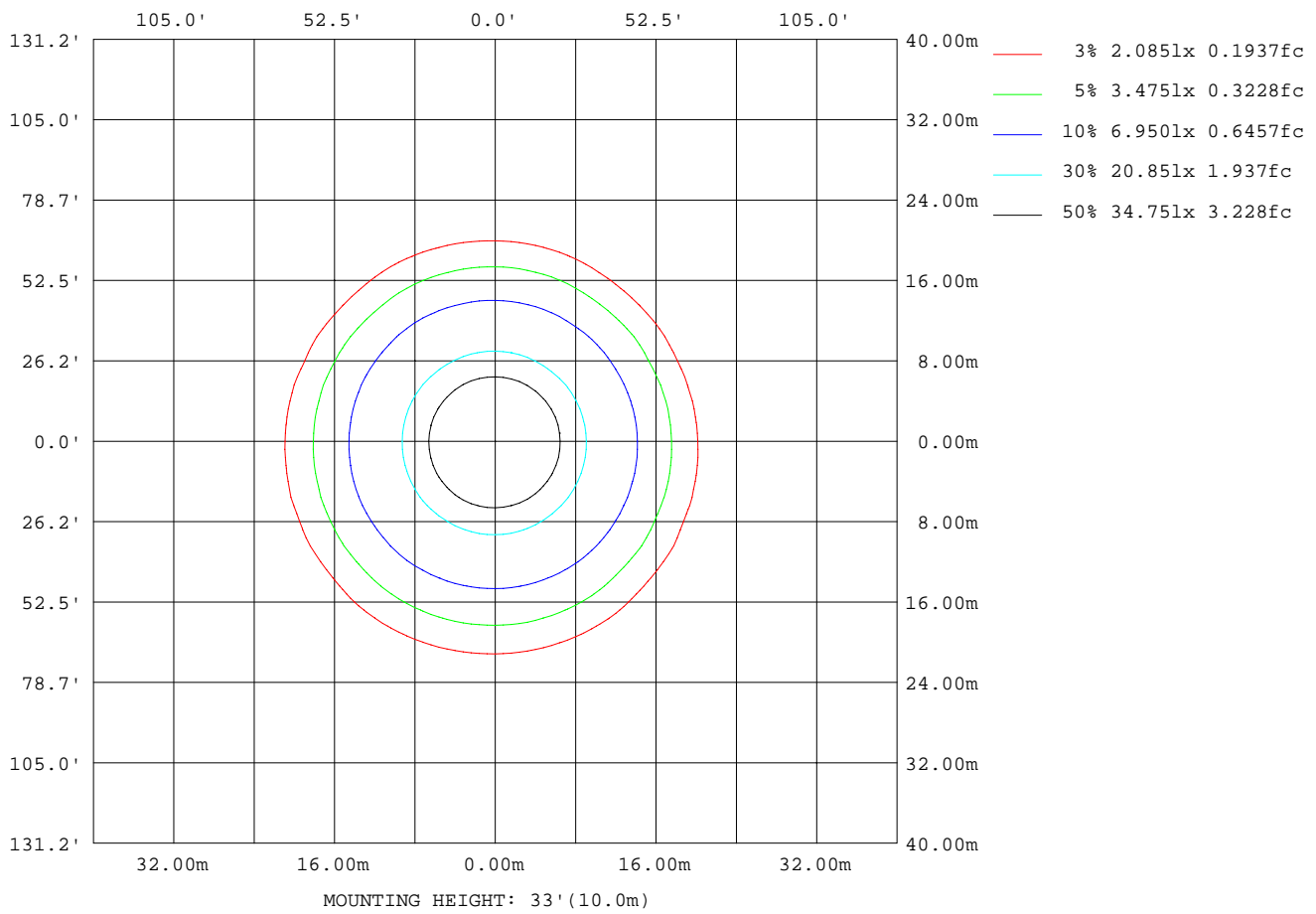
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

LED Avg.L Report

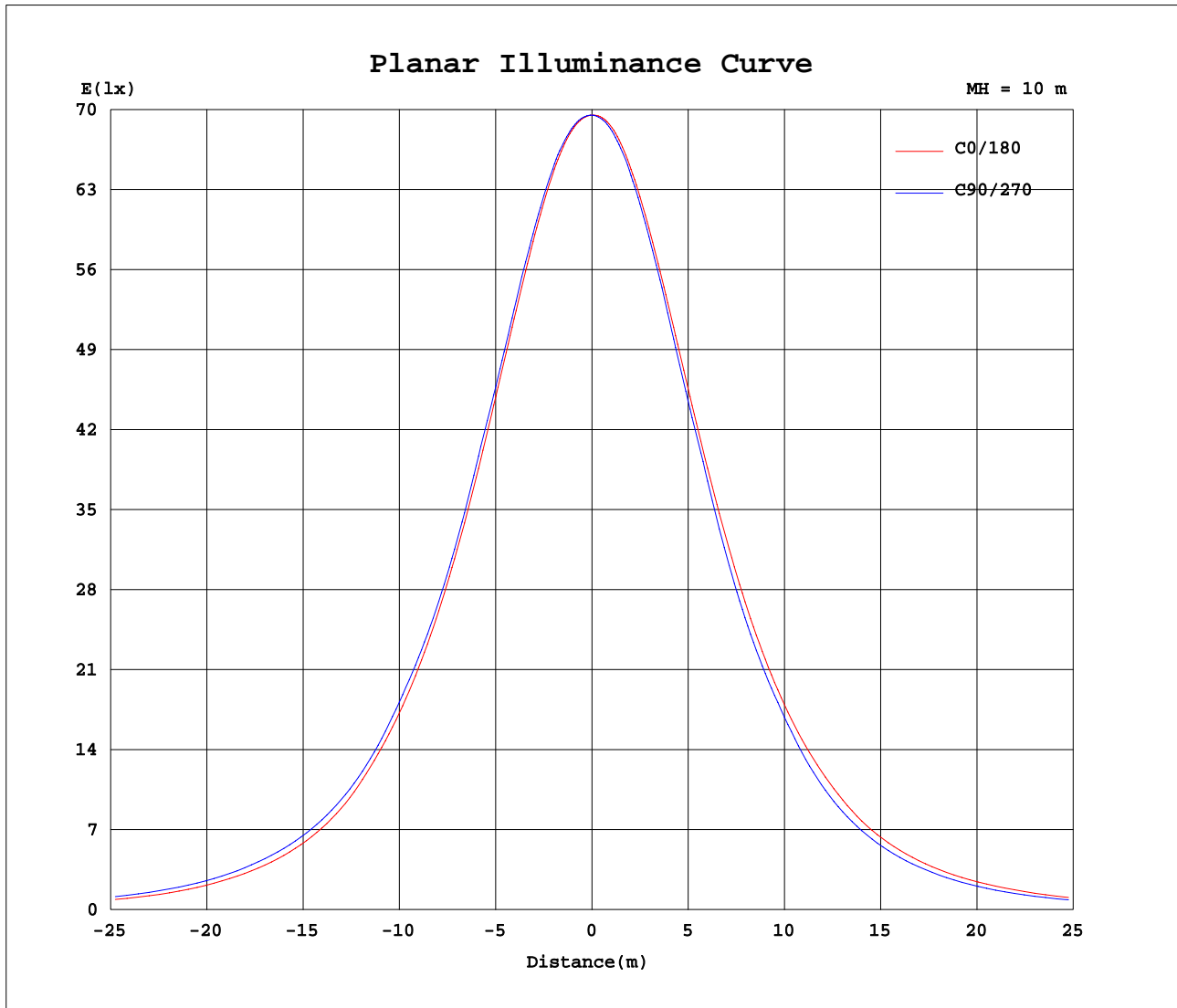
AvgL	cd/m2
L_0~180(65)av	55277
L_0~180(75)av	31340
L_0~180(85)av	1584
L_90~270(65)av	55545
L_90~270(75)av	35612
L_90~270(85)av	34486
L_45(65)av	54682
L_45(75)av	35971
L_45(85)av	20251

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

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	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952
5	6936	6936	6936	6937	6937	6938	6939	6941	6942	6944	6945	6947	6947	6948	6949	6950	6950	6951	6951
10	6872	6871	6871	6872	6875	6879	6881	6884	6886	6889	6891	6894	6898	6901	6905	6909	6912	6915	6918
15	6747	6745	6747	6751	6755	6759	6763	6769	6776	6779	6781	6784	6789	6793	6799	6803	6807	6811	6816
20	6570	6568	6571	6577	6582	6591	6600	6601	6606	6613	6619	6626	6633	6640	6648	6657	6665	6670	6676
25	6346	6343	6348	6355	6368	6376	6381	6390	6398	6408	6421	6423	6423	6426	6431	6438	6445	6451	6458
30	6066	6064	6072	6084	6095	6103	6114	6126	6141	6138	6142	6151	6163	6177	6192	6207	6220	6230	6239
35	5729	5725	5734	5753	5758	5772	5793	5796	5800	5814	5837	5864	5859	5855	5857	5862	5867	5873	5880
40	5331	5330	5345	5356	5370	5395	5391	5399	5426	5448	5441	5444	5450	5461	5474	5490	5503	5512	5521
45	4869	4868	4898	4904	4926	4928	4940	4977	4947	4947	4974	5006	5034	5061	5087	5115	5125	5131	5138
50	4290	4295	4328	4349	4365	4370	4415	4389	4384	4408	4472	4541	4567	4553	4545	4547	4554	4557	4562
55	3587	3595	3616	3660	3667	3699	3717	3756	3790	3830	3855	3887	3903	3909	3916	3929	3948	3956	3962
60	2919	2934	2956	2976	3000	3000	3049	3109	3108	3116	3153	3205	3233	3262	3285	3310	3341	3355	3361
65	2155	2181	2217	2235	2258	2283	2351	2360	2374	2400	2455	2527	2543	2560	2573	2585	2606	2614	2621
70	1418	1439	1457	1469	1531	1548	1570	1622	1654	1688	1727	1773	1795	1813	1828	1842	1861	1869	1881
75	695	712	731	772	805	829	885	933	977	1002	1021	1040	1054	1072	1091	1120	1146	1161	1177
80	157	168	189	216	254	313	338	334	355	405	476	536	588	639	682	712	737	752	765
85	13.6	15.8	19.8	27.1	24.6	38.3	67.6	110	156	203	242	273	299	325	347	363	375	382	389
90	12.8	14.5	13.6	13.1	12.5	12.4	12.6	13.1	13.8	14.7	14.8	14.7	14.4	14.1	13.8	13.5	13.3	13.1	13.0

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2016-08-04

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=1.0191]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: cd

C(DEC) \ γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	
0	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952
5	6951	6952	6953	6954	6955	6956	6957	6957	6957	6957	6957	6957	6957	6957	6957	6957	6957	6957	6958	6955
10	6919	6920	6921	6921	6920	6919	6919	6919	6920	6921	6921	6920	6919	6916	6913	6911	6910	6910	6910	6905
15	6817	6820	6822	6824	6825	6825	6825	6825	6827	6827	6823	6821	6820	6818	6815	6809	6806	6805	6805	6798
20	6678	6678	6677	6675	6676	6677	6680	6680	6680	6677	6675	6676	6670	6667	6665	6660	6652	6650	6642	
25	6461	6463	6465	6467	6469	6473	6478	6484	6481	6482	6483	6478	6472	6467	6462	6457	6448	6443	6436	
30	6244	6246	6244	6240	6235	6228	6224	6223	6229	6239	6234	6233	6227	6217	6210	6208	6196	6188	6181	
35	5888	5896	5904	5913	5923	5938	5953	5938	5925	5919	5920	5926	5921	5913	5904	5898	5892	5882	5873	
40	5528	5533	5536	5537	5537	5540	5546	5560	5583	5576	5557	5550	5555	5552	5534	5520	5514	5503	5501	
45	5147	5157	5166	5157	5146	5133	5123	5118	5119	5130	5165	5131	5116	5116	5111	5091	5087	5071	5065	
50	4572	4586	4604	4623	4648	4675	4684	4657	4610	4582	4599	4654	4629	4607	4614	4598	4588	4566	4561	
55	3969	3982	3993	4002	4012	4027	4054	4062	4037	4000	3988	3993	3993	3965	3951	3941	3915	3888	3880	
60	3366	3378	3380	3380	3374	3375	3380	3366	3341	3332	3340	3306	3288	3301	3260	3257	3236	3214	3198	
65	2631	2649	2662	2672	2680	2693	2705	2690	2646	2612	2605	2622	2601	2562	2586	2557	2533	2517	2497	
70	1895	1909	1923	1931	1940	1950	1955	1952	1924	1904	1886	1877	1837	1826	1787	1774	1757	1729	1716	
75	1192	1197	1200	1196	1206	1212	1211	1211	1200	1185	1180	1145	1097	1062	1029	1002	966	927	916	
80	774	773	768	757	739	710	663	617	560	514	501	489	464	408	362	321	299	270	265	
85	394	393	390	385	375	359	335	311	280	238	188	130	67.9	36.3	43.9	26.6	17.5	14.0	14.5	
90	12.9	13.3	13.5	13.4	12.9	12.3	12.2	12.4	12.5	12.2	11.7	11.0	10.6	10.4	10.7	11.2	12.0	9.52	9.63	

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=1.0191]
Test Date:2016-08-04	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

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	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952
5	6953	6952	6950	6948	6947	6946	6945	6945	6944	6943	6941	6939	6937	6936	6935	6933	6932	6931	6930
10	6901	6898	6896	6894	6891	6889	6885	6881	6878	6876	6874	6871	6870	6868	6867	6866	6865	6863	6861
15	6793	6791	6786	6781	6775	6772	6771	6766	6760	6756	6753	6751	6748	6743	6739	6734	6731	6727	6724
20	6640	6636	6628	6622	6618	6608	6603	6599	6593	6587	6580	6575	6572	6569	6567	6563	6558	6554	6550
25	6434	6427	6419	6412	6406	6400	6390	6380	6375	6361	6346	6333	6322	6315	6309	6304	6298	6293	6290
30	6178	6168	6160	6154	6146	6132	6121	6095	6077	6067	6060	6056	6052	6048	6046	6043	6038	6031	6022
35	5862	5852	5842	5831	5816	5790	5769	5758	5753	5755	5727	5698	5674	5656	5642	5630	5620	5614	5611
40	5484	5474	5468	5448	5413	5392	5387	5375	5334	5302	5279	5260	5243	5235	5226	5214	5203	5193	5188
45	5048	5037	5014	4988	4971	4972	4900	4857	4840	4832	4824	4819	4810	4809	4795	4777	4762	4751	4752
50	4537	4520	4478	4458	4458	4375	4319	4301	4317	4339	4319	4271	4223	4189	4167	4144	4125	4117	4118
55	3866	3838	3816	3811	3761	3724	3706	3695	3674	3655	3623	3587	3550	3522	3503	3483	3465	3456	3446
60	3191	3150	3144	3087	3062	3046	3000	2959	2937	2938	2923	2900	2876	2856	2839	2823	2804	2794	2773
65	2477	2457	2383	2355	2359	2298	2255	2224	2211	2221	2213	2188	2159	2131	2110	2089	2074	2063	2049
70	1679	1633	1635	1592	1573	1554	1531	1516	1508	1498	1484	1455	1428	1396	1376	1353	1344	1332	1323
75	895	877	872	850	869	874	868	846	827	796	764	728	704	689	684	668	667	651	640
80	255	261	278	313	308	279	259	267	321	351	375	392	409	411	417	411	413	400	387
85	18.5	26.3	17.8	26.2	44.1	76.9	107	135	163	180	192	201	210	211	215	212	212	206	199
90	9.77	9.90	10.0	10.2	10.3	10.5	10.6	10.8	11.1	11.5	11.7	11.7	11.8	11.8	11.8	11.8	11.7	11.8	11.9

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=1.0191]
Test Date:2016-08-04	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4

UNIT: cd

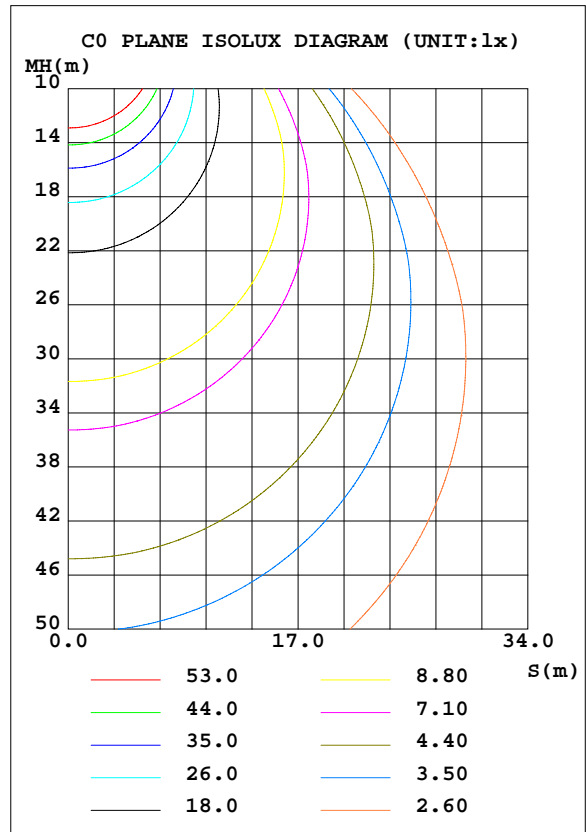
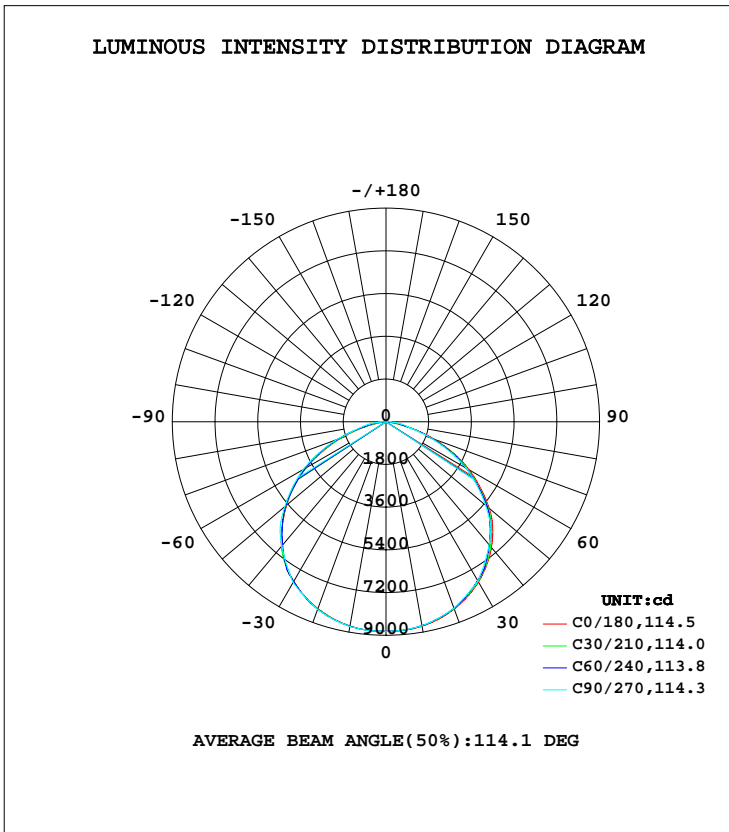
C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952	6952				
5	6929	6929	6928	6928	6928	6928	6927	6926	6926	6926	6927	6928	6930	6932	6934				
10	6858	6856	6855	6853	6852	6851	6851	6852	6854	6854	6857	6857	6859	6862	6866				
15	6723	6722	6721	6720	6719	6719	6722	6725	6722	6722	6724	6727	6730	6732	6738				
20	6547	6544	6539	6535	6533	6532	6532	6533	6536	6545	6546	6546	6550	6554	6559				
25	6287	6285	6284	6289	6298	6307	6301	6301	6305	6309	6317	6323	6323	6328	6333				
30	6011	5999	5990	5985	5984	5987	5998	6018	6018	6020	6024	6034	6040	6044	6050				
35	5609	5611	5619	5635	5656	5644	5635	5638	5655	5677	5677	5680	5692	5693	5705				
40	5181	5174	5170	5167	5170	5182	5220	5226	5228	5244	5271	5266	5279	5293	5301				
45	4752	4733	4708	4676	4643	4635	4656	4701	4766	4756	4768	4805	4809	4836	4837				
50	4123	4130	4134	4123	4092	4070	4065	4086	4122	4151	4153	4189	4203	4228	4244				
55	3443	3439	3430	3406	3400	3416	3440	3440	3434	3435	3463	3479	3529	3529	3550				
60	2763	2749	2732	2697	2683	2686	2703	2732	2768	2739	2740	2797	2825	2857	2883				
65	2043	2036	2024	1995	1977	1964	1974	1981	1998	2016	2018	2036	2063	2097	2124				
70	1319	1318	1316	1306	1303	1297	1290	1252	1261	1272	1298	1303	1318	1345	1380				
75	624	610	621	633	651	667	676	673	667	632	617	639	632	638	664				
80	366	343	319	287	254	213	171	163	182	213	206	156	151	136	146				
85	188	177	164	148	131	110	88.7	63.7	41.5	27.5	16.7	13.2	19.0	13.3	13.0				
90	12.1	12.1	12.2	12.3	12.3	12.2	12.0	11.9	11.8	11.7	11.6	11.5	11.3	11.2	11.1				

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=1.0191]
 Test Date: 2016-08-04 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.75 lm/W			
MODEL		I _{max} (cd)	8829	S/MH(C0/180)	1.31
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	25217	η UP, DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	25216.9	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.4
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:2016-08-04

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=1.0191]
 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	8819	8808	8805	8808	8818	8819	8820	8819	0- 5	210.9	210.9	0.84,0.84
10	8746	8725	8728	8723	8737	8744	8759	8748	5- 10	627.9	838.9	3.33,3.33
15	8606	8580	8570	8575	8592	8604	8615	8615	10- 15	1028	1867	7.4,7.4
20	8401	8364	8361	8359	8380	8399	8419	8410	15- 20	1399	3266	13,13
25	8129	8091	8053	8079	8109	8129	8121	8144	20- 25	1730	4996	19.8,19.8
30	7796	7738	7745	7719	7769	7779	7822	7797	25- 30	2009	7004	27.8,27.8
35	7391	7320	7253	7301	7352	7365	7325	7384	30- 35	2226	9230	36.6,36.6
40	6914	6847	6761	6821	6850	6891	6827	6916	35- 40	2365	11595	46,46
45	6358	6197	6239	6142	6181	6195	6303	6266	40- 45	2421	14016	55.6,55.6
50	5677	5515	5478	5423	5462	5482	5568	5583	45- 50	2382	16398	65,65
55	4862	4787	4686	4674	4704	4764	4805	4857	50- 55	2236	18635	73.9,73.9
60	4035	3890	3894	3791	3895	3889	4043	3984	55- 60	2008	20642	81.9,81.9
65	3154	2988	2957	2895	2936	3003	3120	3101	60- 65	1695	22337	88.6,88.6
70	2178	2087	2021	2014	2009	2120	2198	2209	65- 70	1298	23634	93.7,93.7
75	1235	1197	1142	1161	1119	1267	1325	1337	70- 75	859.6	24494	97.1,97.1
80	393.8	421.0	728.2	427.6	382.8	521.7	854.2	571.9	75- 80	458.1	24952	99,99
85	20.94	212.2	372.6	218.5	24.43	263.2	433.6	287.2	80- 85	201.3	25153	99.7,99.7
90	15.74	17.08	16.89	17.18	13.91	14.61	12.97	13.33	85- 90	63.42	25217	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): 14016 lm

%lum = 55.6%
%lamp = 55.6%

Conical surface Flux(120deg): 20642 lm

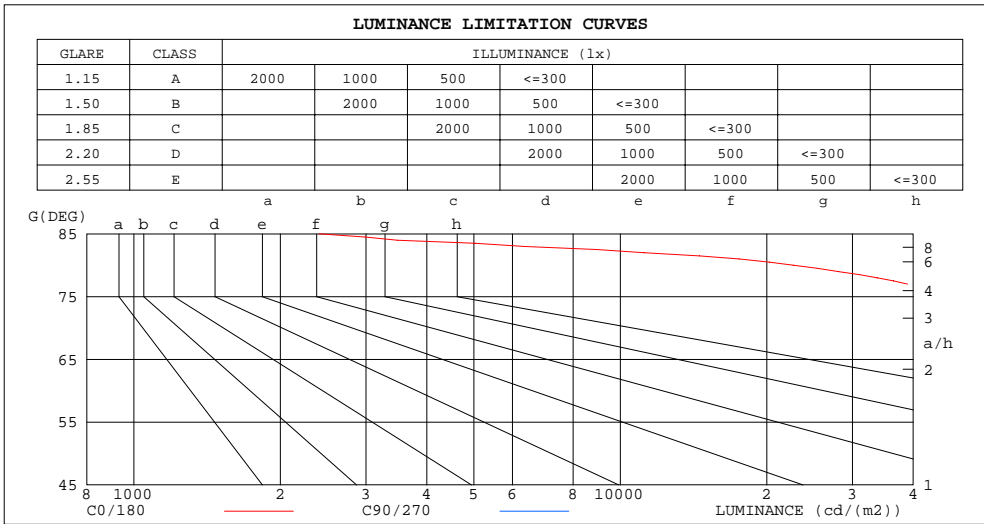
%lum = 81.9%
%lamp = 81.9%

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-08-04

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=1.0191]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2403	42747
80	22677	41937
75	47733	44124
70	63681	59079
65	74629	69977
60	80706	77882
55	84758	81695
50	88321	85216
45	89916	88237

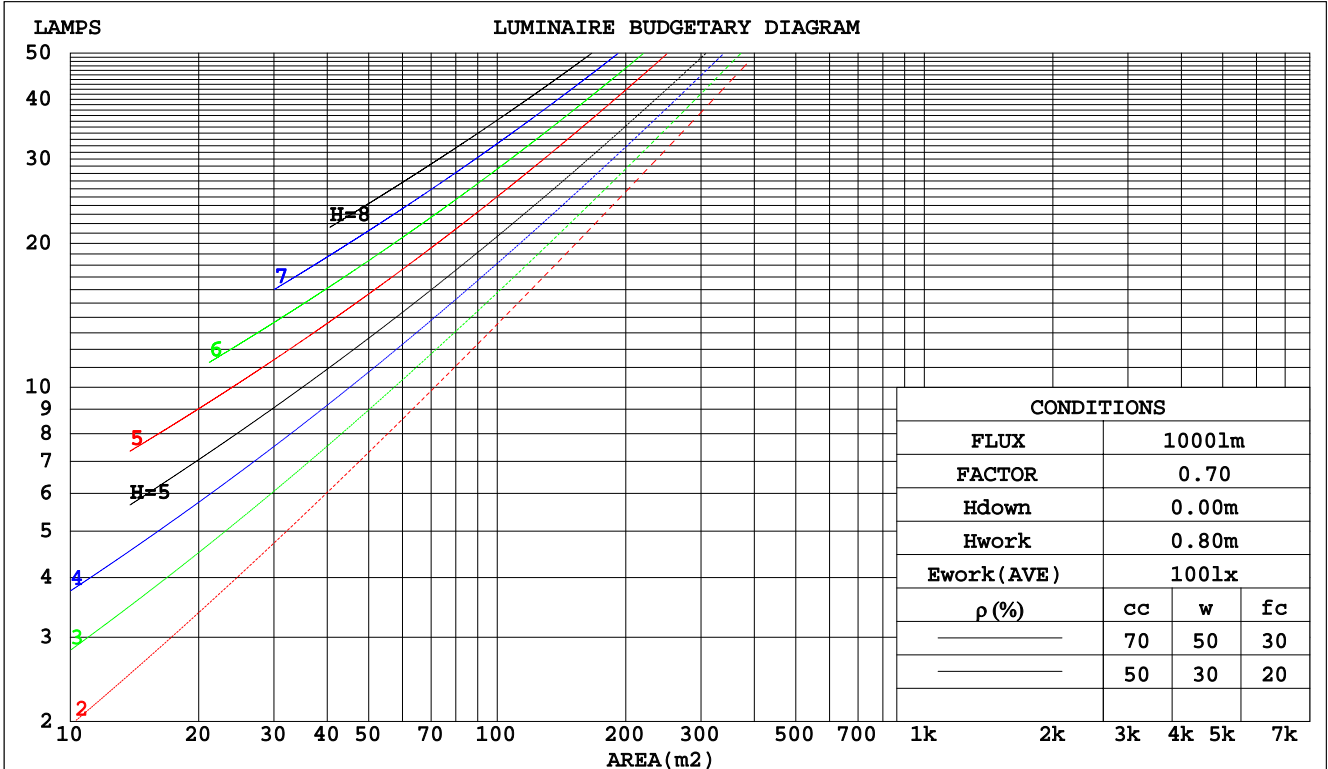
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			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	1.05	1.01	.97	1.03	.99	.96	.98	.95	.92	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.81	.73	.66	.79	.72	.66	.76	.70	.65	.73	.68	.63	.71	.66	.62	.60
4.0	.71	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.54	.51
5.0	.64	.55	.48	.63	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.44
6.0	.57	.49	.42	.56	.48	.42	.55	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.29	.40	.34	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.25



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

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	.292	.166	.053	.285	.163	.052	.272	.156	.050	.260	.150	.048	.248	.144	.046	
2.0	.280	.153	.047	.274	.151	.046	.262	.146	.045	.251	.141	.044	.242	.137	.043	
3.0	.262	.139	.042	.256	.137	.041	.246	.133	.041	.237	.130	.040	.228	.126	.039	
4.0	.243	.127	.037	.239	.125	.037	.230	.122	.036	.221	.119	.036	.213	.116	.035	
5.0	.226	.115	.033	.222	.114	.033	.214	.111	.033	.206	.109	.032	.199	.107	.032	
6.0	.211	.106	.030	.207	.104	.030	.200	.102	.030	.193	.100	.029	.187	.098	.029	
7.0	.197	.097	.028	.193	.096	.027	.187	.094	.027	.181	.093	.027	.175	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.175	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.081	.023	.160	.080	.023	.155	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.147	.074	.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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.034	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

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	28.4	29.9	28.7	30.1	30.3	28.2	29.7	28.5	29.9	30.1
3H	29.6	31.0	29.9	31.2	31.5	29.4	30.8	29.7	31.0	31.2
4H	29.9	31.2	30.2	31.5	31.7	29.7	31.0	30.0	31.2	31.5
6H	30.0	31.2	30.3	31.5	31.8	29.9	31.1	30.2	31.4	31.7
8H	29.9	31.1	30.3	31.4	31.7	30.0	31.1	30.3	31.4	31.7
12H	29.9	31.0	30.2	31.3	31.6	30.0	31.2	30.4	31.5	31.8
4H 2H	28.9	30.2	29.2	30.5	30.7	28.8	30.1	29.1	30.3	30.6
3H	30.2	31.4	30.6	31.7	32.0	30.1	31.2	30.4	31.5	31.8
4H	30.6	31.7	31.0	32.0	32.3	30.4	31.5	30.8	31.8	32.1
6H	30.8	31.7	31.1	32.0	32.4	30.7	31.6	31.1	32.0	32.4
8H	30.7	31.6	31.1	31.9	32.3	30.9	31.7	31.3	32.1	32.5
12H	30.7	31.5	31.1	31.8	32.3	31.0	31.7	31.4	32.1	32.5
8H 4H	30.7	31.6	31.1	32.0	32.3	30.5	31.4	31.0	31.8	32.1
6H	30.9	31.6	31.3	32.0	32.4	30.9	31.6	31.4	32.0	32.5
8H	30.9	31.5	31.3	31.9	32.4	31.1	31.7	31.6	32.2	32.6
12H	30.8	31.4	31.3	31.8	32.3	31.3	31.8	31.8	32.3	32.8
12H 4H	30.7	31.5	31.1	31.9	32.3	30.5	31.3	30.9	31.7	32.1
6H	30.9	31.5	31.3	31.9	32.4	30.9	31.5	31.4	32.0	32.4
8H	30.9	31.4	31.4	31.9	32.3	31.1	31.7	31.6	32.1	32.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.5				
2.0H	+ 0.4 / - 0.4					+ 0.3 / - 0.3				

CIE Pub.117 Corrected 25217 lm Total Lamp Luminous Flux. (8log(F/F0) = 11.2)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

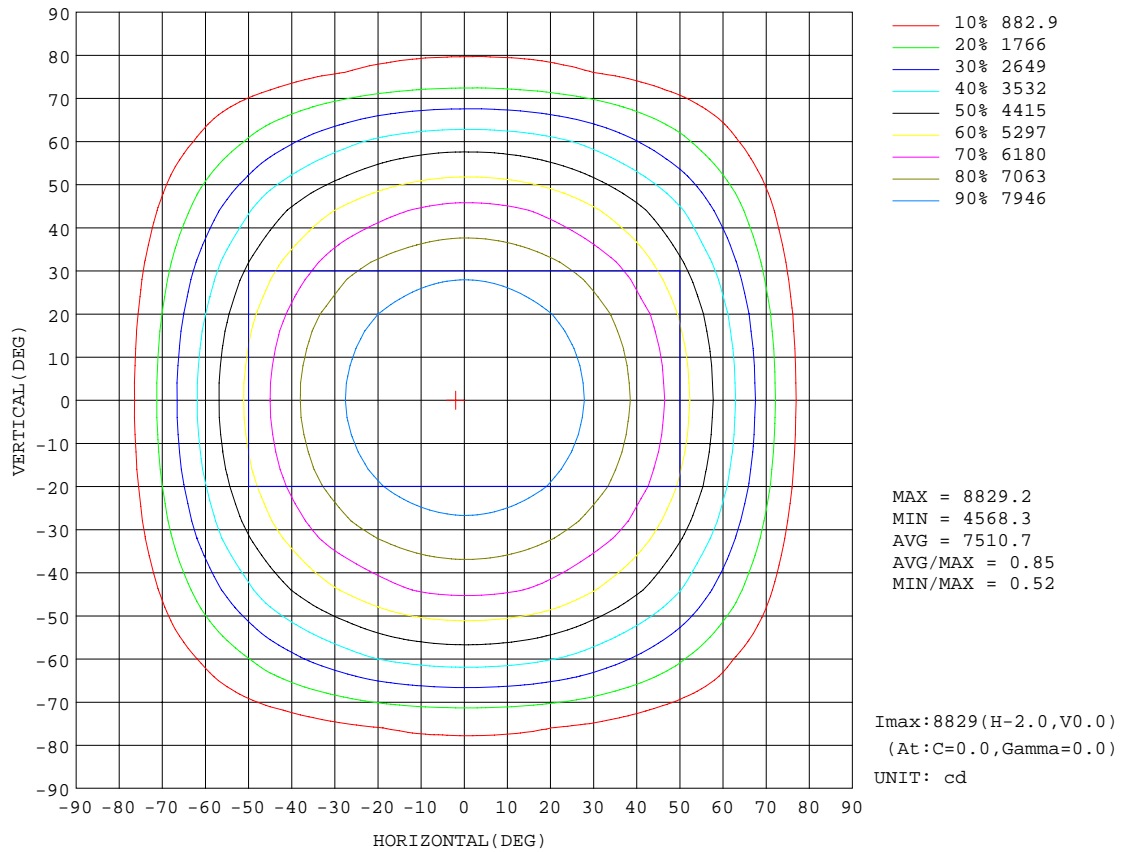
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	57	46	39	56	46	39	33
0.80	68	57	50	67	56	49	66	56	49	42
1.00	77	66	59	76	66	59	74	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	88	79	72	85	77	71	64
2.00	96	88	82	94	87	81	91	84	79	72
2.50	100	92	87	98	91	86	94	88	84	76
3.00	103	97	91	101	95	90	97	92	88	80
4.00	107	102	97	105	100	96	100	97	93	84
5.00	109	105	101	107	103	99	102	99	96	87
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: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

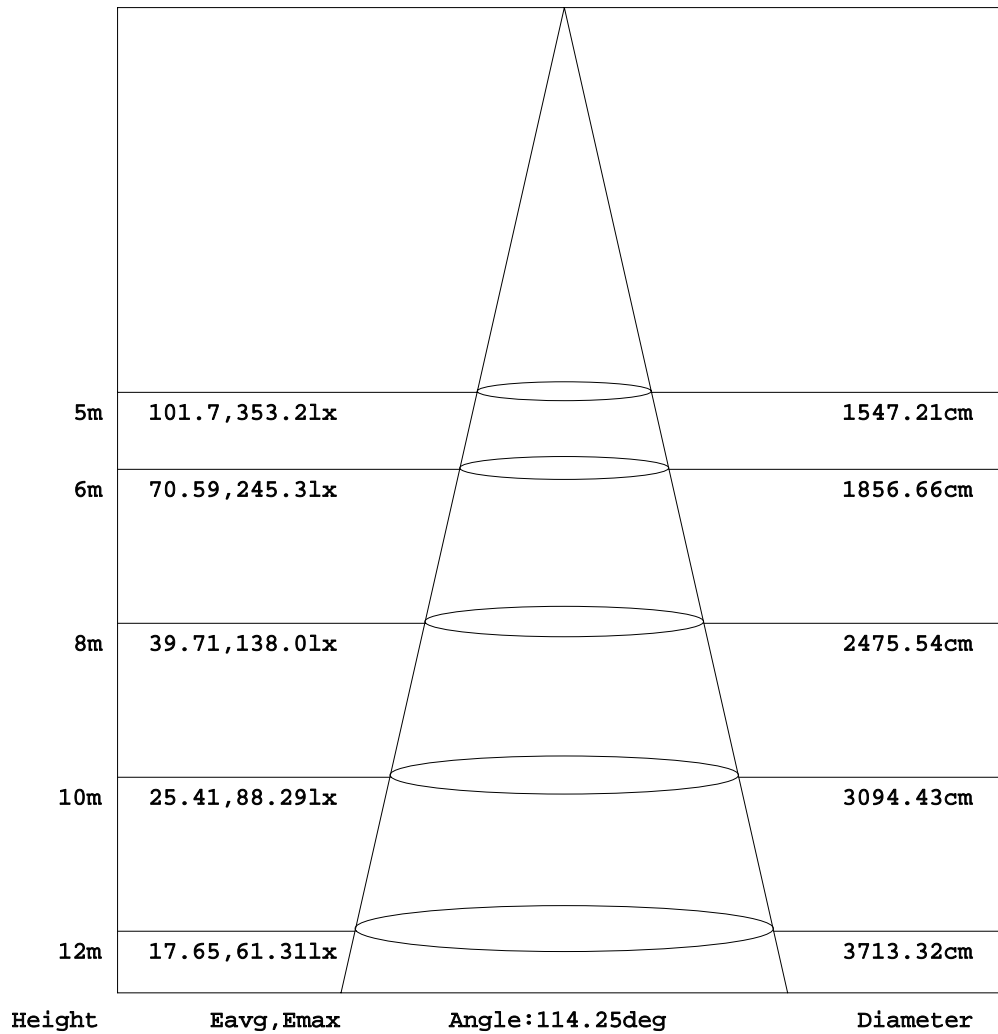


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks:

AAI Figure

Flux out:19672 lm



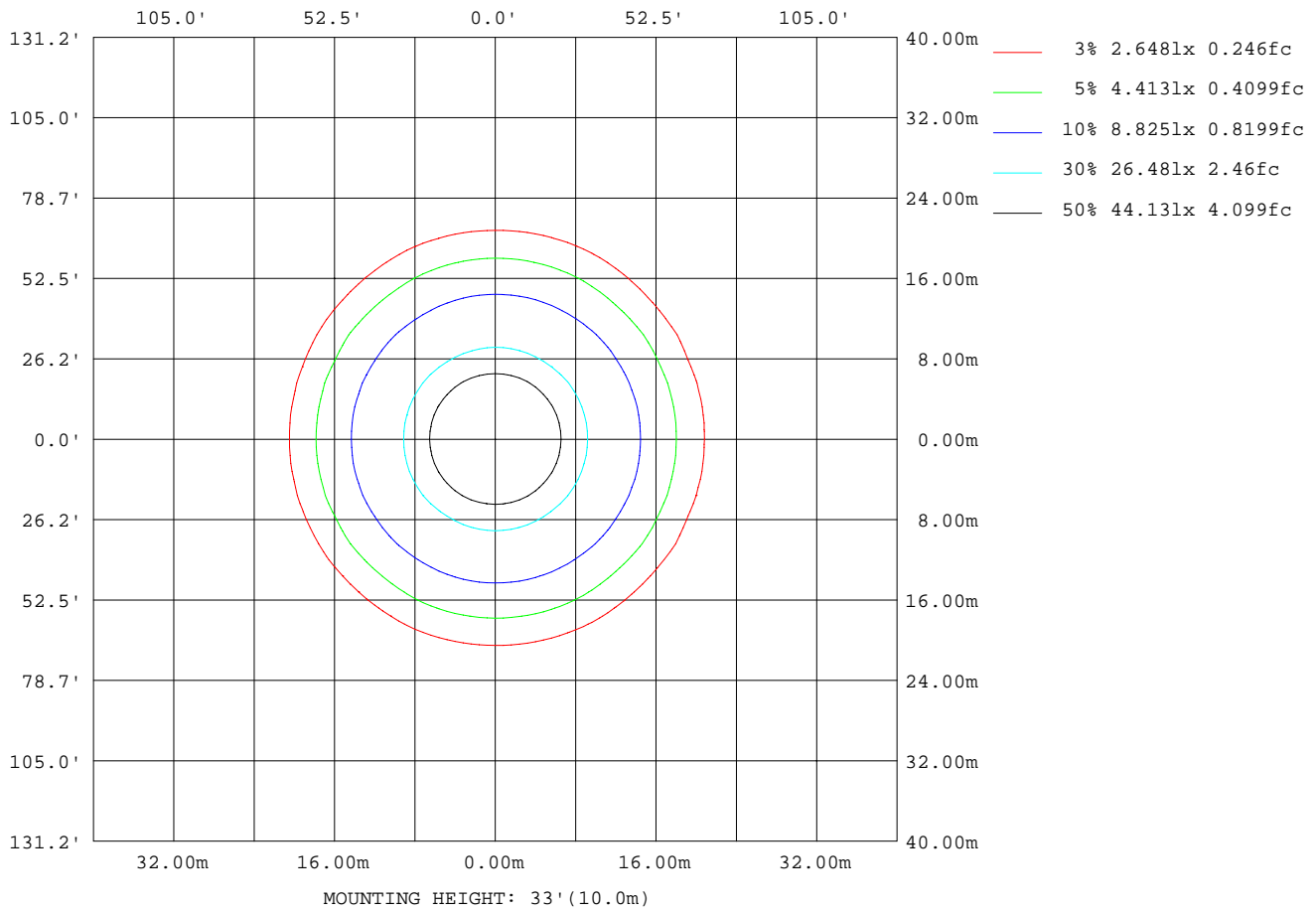
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

LED Avg.L Report

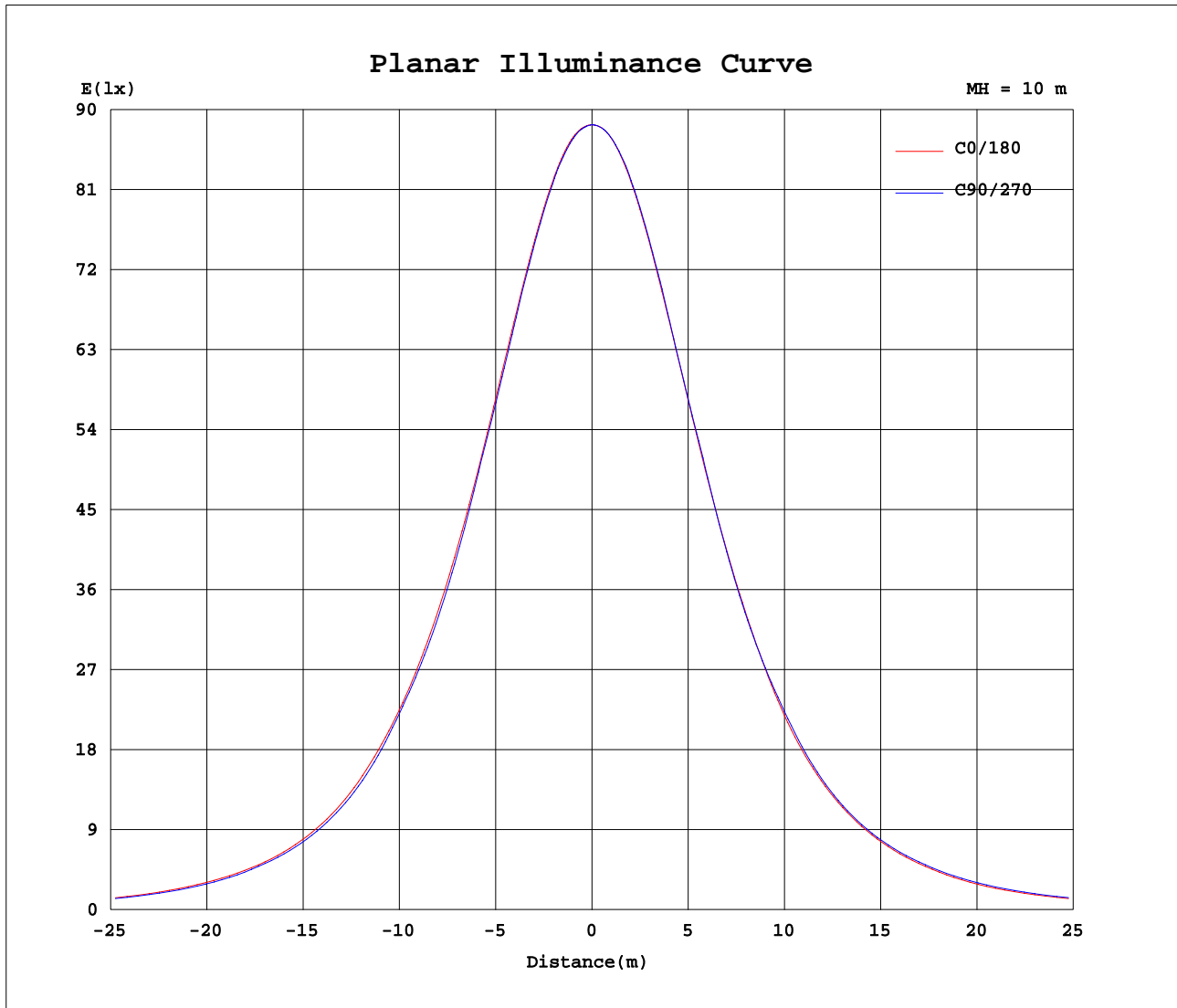
AvgL	cd/m2
L_0~180(65)av	72051
L_0~180(75)av	45478
L_0~180(85)av	2603
L_90~270(65)av	71905
L_90~270(75)av	47661
L_90~270(85)av	46249
L_45(65)av	70914
L_45(75)av	47931
L_45(85)av	28141

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

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	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829
5	8819	8817	8814	8812	8811	8809	8809	8808	8808	8808	8808	8808	8807	8806	8806	8805	8805	8805	8805
10	8746	8740	8735	8733	8732	8731	8729	8729	8727	8725	8724	8724	8725	8725	8726	8726	8727	8727	8728
15	8606	8596	8591	8589	8586	8584	8582	8582	8584	8580	8576	8574	8573	8573	8573	8572	8571	8570	8570
20	8401	8390	8385	8382	8379	8379	8379	8370	8366	8364	8363	8362	8360	8360	8361	8361	8361	8361	8361
25	8129	8116	8111	8108	8110	8106	8098	8095	8092	8091	8096	8085	8074	8066	8060	8057	8055	8054	8053
30	7796	7781	7777	7774	7770	7764	7761	7759	7759	7738	7727	7724	7725	7729	7733	7737	7741	7743	7745
35	7391	7372	7368	7373	7358	7355	7360	7341	7323	7320	7328	7344	7319	7297	7280	7268	7260	7255	7253
40	6914	6893	6890	6883	6879	6884	6856	6843	6851	6847	6803	6780	6772	6769	6766	6765	6764	6763	6761
45	6358	6336	6346	6324	6324	6295	6290	6309	6240	6197	6180	6186	6206	6230	6246	6259	6250	6244	6239
50	5677	5648	5651	5638	5626	5597	5608	5567	5529	5515	5528	5561	5574	5558	5535	5512	5495	5484	5478
55	4862	4841	4837	4846	4809	4808	4769	4772	4783	4787	4755	4735	4731	4724	4717	4706	4695	4690	4686
60	4035	4017	4008	3996	3996	3949	3955	3975	3932	3890	3871	3875	3890	3894	3897	3898	3896	3896	3894
65	3154	3136	3132	3098	3055	3053	3083	3038	3006	2988	2991	3008	3017	3007	2991	2981	2968	2961	2957
70	2178	2158	2145	2111	2130	2104	2092	2093	2092	2087	2079	2075	2077	2067	2054	2042	2031	2023	2021
75	1235	1218	1191	1200	1186	1174	1199	1206	1206	1197	1180	1161	1155	1136	1124	1134	1138	1141	1142
80	394	377	382	388	413	451	445	403	391	421	497	555	612	648	679	703	717	726	728
85	20.9	20.7	25.6	43.4	27.8	39.9	76.5	120	165	212	254	283	312	330	347	360	367	371	373
90	15.7	18.2	17.1	16.7	16.0	15.7	15.8	16.2	16.8	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.0	16.9	16.9

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=1.0191]
Test Date: 2016-08-04	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

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	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829
5	8805	8805	8805	8806	8807	8807	8809	8809	8808	8808	8808	8808	8809	8810	8811	8813	8815	8818	8817
10	8727	8726	8725	8724	8723	8722	8722	8722	8723	8725	8727	8728	8729	8729	8729	8730	8733	8737	8735
15	8570	8570	8571	8572	8572	8571	8571	8572	8575	8579	8576	8576	8579	8582	8584	8582	8585	8592	8589
20	8360	8359	8357	8356	8354	8354	8356	8358	8359	8359	8360	8366	8365	8367	8371	8373	8373	8380	8378
25	8052	8050	8050	8052	8056	8062	8072	8082	8079	8082	8087	8087	8090	8093	8096	8101	8101	8109	8107
30	7741	7734	7728	7723	7718	7713	7710	7711	7719	7738	7741	7747	7749	7749	7752	7762	7762	7769	7770
35	7251	7250	7256	7264	7277	7299	7327	7310	7301	7301	7312	7329	7332	7335	7337	7341	7347	7352	7360
40	6757	6751	6745	6734	6723	6719	6733	6767	6821	6824	6806	6807	6839	6845	6842	6845	6855	6850	6857
45	6236	6234	6228	6191	6149	6117	6104	6110	6142	6178	6212	6172	6172	6182	6187	6177	6185	6181	6191
50	5476	5478	5477	5470	5461	5459	5446	5433	5423	5417	5420	5454	5443	5435	5453	5453	5467	5462	5473
55	4683	4678	4672	4662	4648	4632	4629	4649	4674	4664	4643	4653	4695	4682	4699	4710	4706	4704	4718
60	3889	3878	3870	3861	3839	3803	3779	3775	3791	3822	3859	3814	3808	3884	3856	3886	3888	3895	3897
65	2954	2953	2956	2964	2962	2940	2926	2911	2895	2904	2909	2909	2909	2904	2942	2927	2935	2936	2945
70	2016	2019	2021	2029	2029	2020	2017	2020	2014	2004	1972	1971	1986	1982	1984	1997	2015	2009	2023
75	1134	1132	1116	1103	1107	1118	1129	1147	1161	1165	1149	1125	1103	1105	1101	1113	1115	1119	1124
80	720	713	690	665	630	590	539	489	428	414	418	434	438	412	387	381	384	383	393
85	368	365	353	341	322	302	275	250	218	183	138	89.3	45.6	30.4	49.4	28.6	22.7	24.4	27.5
90	16.9	17.2	17.3	17.4	17.5	17.5	17.6	17.6	17.2	16.5	15.8	15.4	15.0	14.9	15.3	16.4	17.1	13.9	13.8

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=1.0191]
 Test Date:2016-08-04 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

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	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829
5	8816	8816	8816	8816	8816	8817	8818	8819	8820	8821	8820	8820	8820	8820	8820	8820	8820	8820	8820
10	8735	8736	8739	8742	8743	8745	8745	8744	8745	8746	8748	8749	8752	8754	8756	8758	8759	8759	8758
15	8591	8596	8598	8598	8598	8600	8604	8604	8604	8606	8609	8612	8614	8613	8614	8614	8615	8615	8615
20	8383	8386	8387	8390	8395	8393	8395	8399	8402	8403	8404	8406	8409	8412	8415	8417	8419	8419	8418
25	8113	8113	8115	8119	8123	8128	8128	8129	8135	8129	8121	8118	8117	8117	8118	8119	8121	8121	8122
30	7776	7773	7777	7786	7791	7789	7795	7779	7773	7774	7779	7789	7799	7808	7814	7819	7822	7821	7818
35	7364	7367	7370	7375	7379	7366	7361	7365	7380	7400	7369	7343	7328	7321	7320	7322	7325	7327	7331
40	6855	6861	6874	6874	6842	6837	6874	6891	6836	6800	6781	6775	6779	6790	6806	6819	6827	6829	6828
45	6188	6199	6193	6182	6185	6209	6199	6195	6180	6168	6173	6194	6220	6252	6274	6293	6303	6306	6309
50	5469	5479	5465	5476	5498	5465	5460	5482	5500	5515	5519	5519	5523	5533	5547	5560	5568	5574	5581
55	4730	4725	4719	4739	4706	4713	4742	4764	4738	4719	4724	4739	4757	4772	4787	4800	4805	4812	4815
60	3911	3889	3924	3864	3884	3943	3915	3889	3885	3893	3922	3959	3994	4013	4029	4040	4043	4050	4049
65	2951	2973	2951	2972	2987	3000	3003	3003	3028	3058	3076	3100	3113	3114	3118	3119	3120	3131	3137
70	2019	2020	2039	2054	2052	2066	2107	2120	2140	2154	2161	2175	2184	2189	2194	2194	2198	2208	2214
75	1133	1139	1156	1169	1206	1236	1263	1267	1269	1273	1263	1259	1265	1291	1311	1318	1325	1332	1331
80	407	428	463	494	507	499	496	522	591	657	702	743	781	813	836	847	854	857	851
85	36.0	61.0	44.0	80.2	132	184	225	263	298	332	356	377	397	413	424	430	434	435	432
90	13.9	14.1	14.4	14.5	14.6	14.7	14.7	14.6	14.5	14.3	14.2	14.0	13.8	13.6	13.4	13.2	13.0	12.9	12.9

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=1.0191]
 Test Date: 2016-08-04 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829	8829				
5	8820	8820	8820	8820	8821	8820	8819	8818	8817	8817	8816	8816	8817	8817	8818				
10	8757	8756	8754	8752	8750	8749	8748	8748	8748	8747	8746	8744	8742	8742	8743				
15	8615	8616	8614	8613	8612	8613	8615	8617	8611	8608	8608	8606	8605	8601	8601				
20	8418	8415	8413	8412	8412	8411	8410	8409	8408	8413	8408	8401	8400	8398	8396				
25	8123	8125	8128	8134	8143	8151	8144	8141	8141	8139	8140	8138	8130	8126	8123				
30	7812	7806	7798	7791	7788	7788	7797	7815	7809	7806	7803	7803	7799	7793	7789				
35	7338	7349	7365	7388	7414	7396	7384	7383	7395	7408	7397	7394	7402	7387	7382				
40	6827	6825	6825	6828	6842	6870	6916	6917	6903	6908	6929	6916	6914	6911	6903				
45	6312	6295	6272	6251	6241	6245	6266	6309	6373	6344	6345	6372	6361	6370	6347				
50	5590	5600	5609	5622	5618	5597	5583	5594	5626	5655	5640	5668	5672	5674	5663				
55	4817	4818	4816	4817	4824	4837	4857	4854	4834	4820	4846	4840	4873	4851	4848				
60	4045	4038	4026	4012	3993	3977	3984	4014	4044	4012	3998	4029	4028	4035	4035				
65	3145	3154	3160	3164	3154	3120	3101	3100	3119	3160	3118	3105	3143	3162	3153				
70	2222	2228	2229	2231	2228	2222	2209	2197	2195	2174	2172	2178	2149	2165	2170				
75	1326	1308	1305	1313	1324	1336	1337	1338	1320	1281	1261	1251	1254	1230	1238				
80	838	811	775	735	693	639	572	539	524	531	520	467	429	403	389				
85	425	411	393	372	351	321	287	242	188	127	66.1	32.1	48.4	24.8	20.5				
90	13.0	13.0	13.1	13.1	13.2	13.3	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.4	13.4				

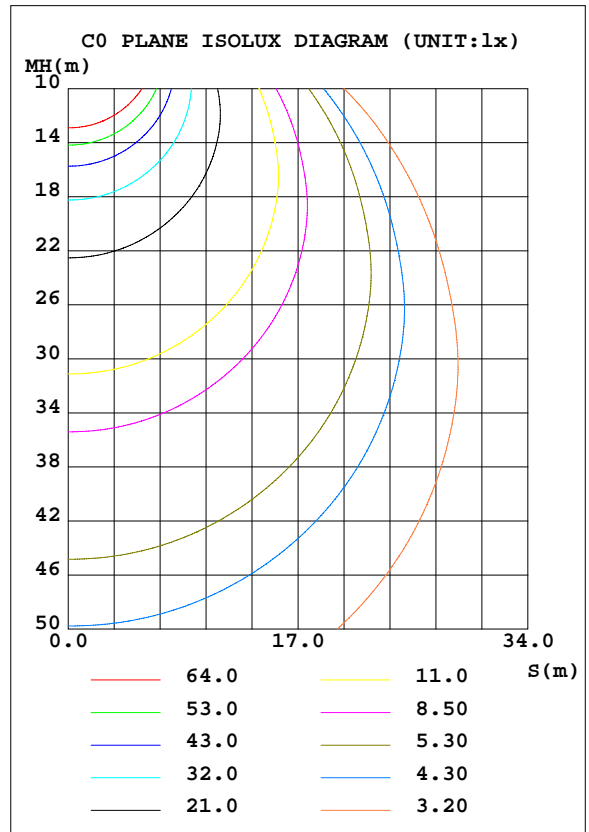
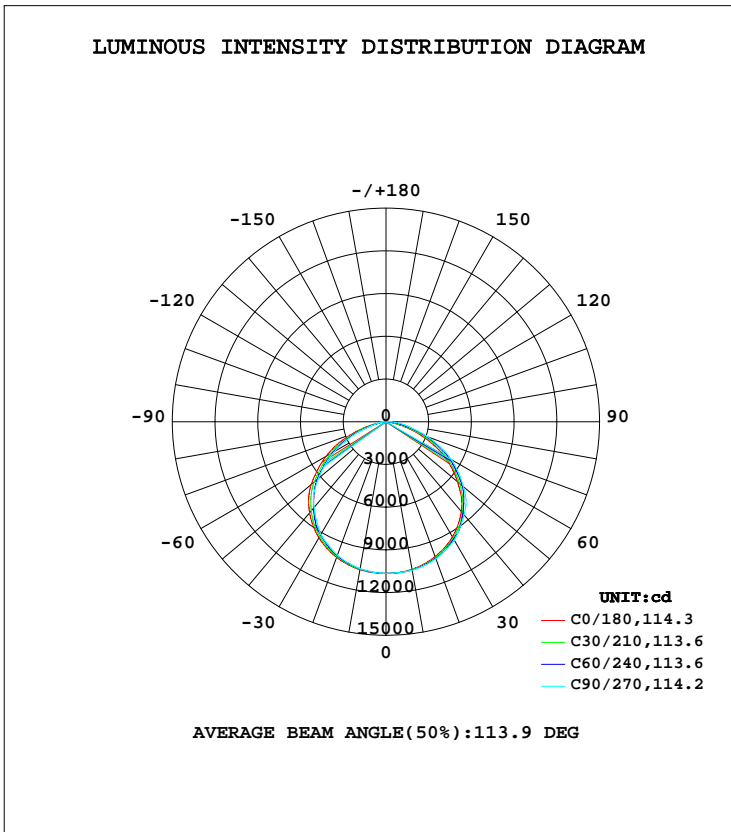
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-08-04

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=1.0191]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.42 lm/W			
MODEL		I _{max} (cd)	10651	S/MH(C0/180)	1.31
NOMINAL POWER(W)	240	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	30370	η UP, DN(C0-180)	0.0,52.5
NOMINAL FLUX(lm)	30369.7	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,47.5
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:2016-08-04

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=1.0191]
 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	1063	1063	1064	1064	1064	1061	1060	1060	0- 5	254.3	254.3	0.84,0.84
10	1052	1056	1059	1057	1055	1050	1048	1048	5- 10	756.7	1011	3.33,3.33
15	1034	1041	1045	1043	1038	1031	1026	1028	10- 15	1239	2250	7.41,7.41
20	1008	1018	1024	1021	1014	1004	998.3	999.3	15- 20	1686	3936	13.13
25	974.7	987.0	992.2	991.7	981.1	968.4	957.1	963.7	20- 25	2084	6020	19.8,19.8
30	933.5	947.1	959.9	953.0	941.3	922.8	915.9	917.5	25- 30	2421	8441	27.8,27.8
35	882.9	899.5	906.3	907.0	892.8	869.9	850.9	862.4	30- 35	2682	11123	36.6,36.6
40	823.4	844.9	852.8	854.6	834.9	809.8	786.0	800.4	35- 40	2849	13973	46.46
45	748.7	767.1	795.6	780.0	768.0	725.2	717.4	714.5	40- 45	2920	16892	55.6,55.6
50	656.0	685.2	710.0	700.8	685.2	636.3	619.6	623.9	45- 50	2870	19763	65.1,65.1
55	562.6	599.7	620.9	616.1	585.4	542.9	518.2	530.7	50- 55	2688	22450	73.9,73.9
60	463.5	496.0	531.8	515.9	485.8	433.7	416.8	420.1	55- 60	2406	24857	81.8,81.8
65	349.5	390.8	421.6	414.1	378.1	323.9	306.7	309.5	60- 65	2030	26886	88.5,88.5
70	237.6	284.2	311.5	307.8	260.2	218.4	196.5	205.2	65- 70	1555	28441	93.6,93.6
75	130.2	177.4	205.7	197.9	150.6	119.8	94.59	110.1	70- 75	1035	29476	97.1,97.1
80	41.09	83.18	135.0	99.44	54.35	36.32	58.25	29.99	75- 80	561.0	30037	98.9,98.9
85	2.600	41.47	68.65	49.70	3.357	18.67	30.11	15.50	80- 85	252.8	30290	99.7,99.7
90	2.000	1.977	2.291	1.826	1.541	1.825	1.963	1.921	85- 90	79.96	30370	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:×10cd								UNIT:lm			

Conical surface Flux(90deg): 16892 lm

%lum = 55.6%
%lamp = 55.6%

Conical surface Flux(120deg): 24857 lm

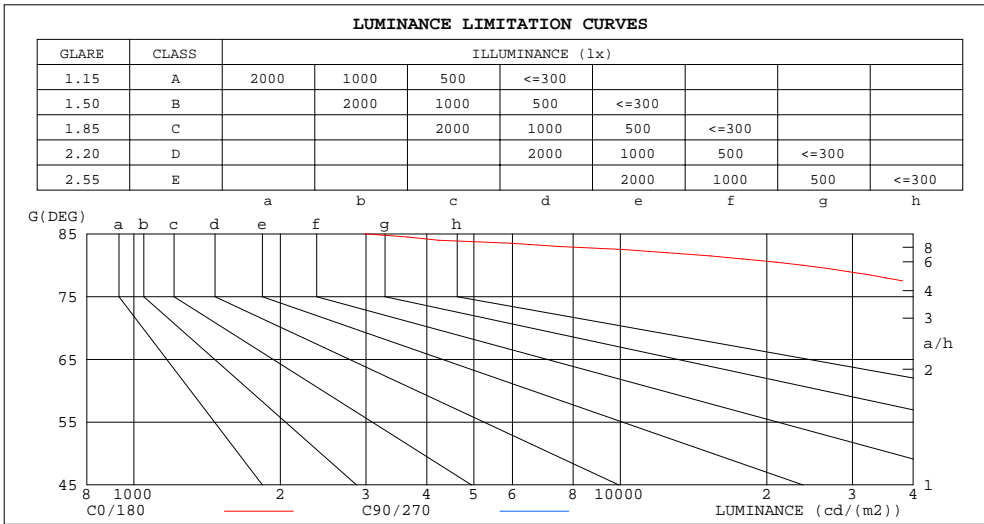
%lum = 81.8%
%lamp = 81.8%

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-08-04

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=1.0191]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2983	78763
80	23663	77744
75	50290	79490
70	69461	91074
65	82704	99765
60	92693	106352
55	98092	108251
50	102049	110463
45	105883	112519

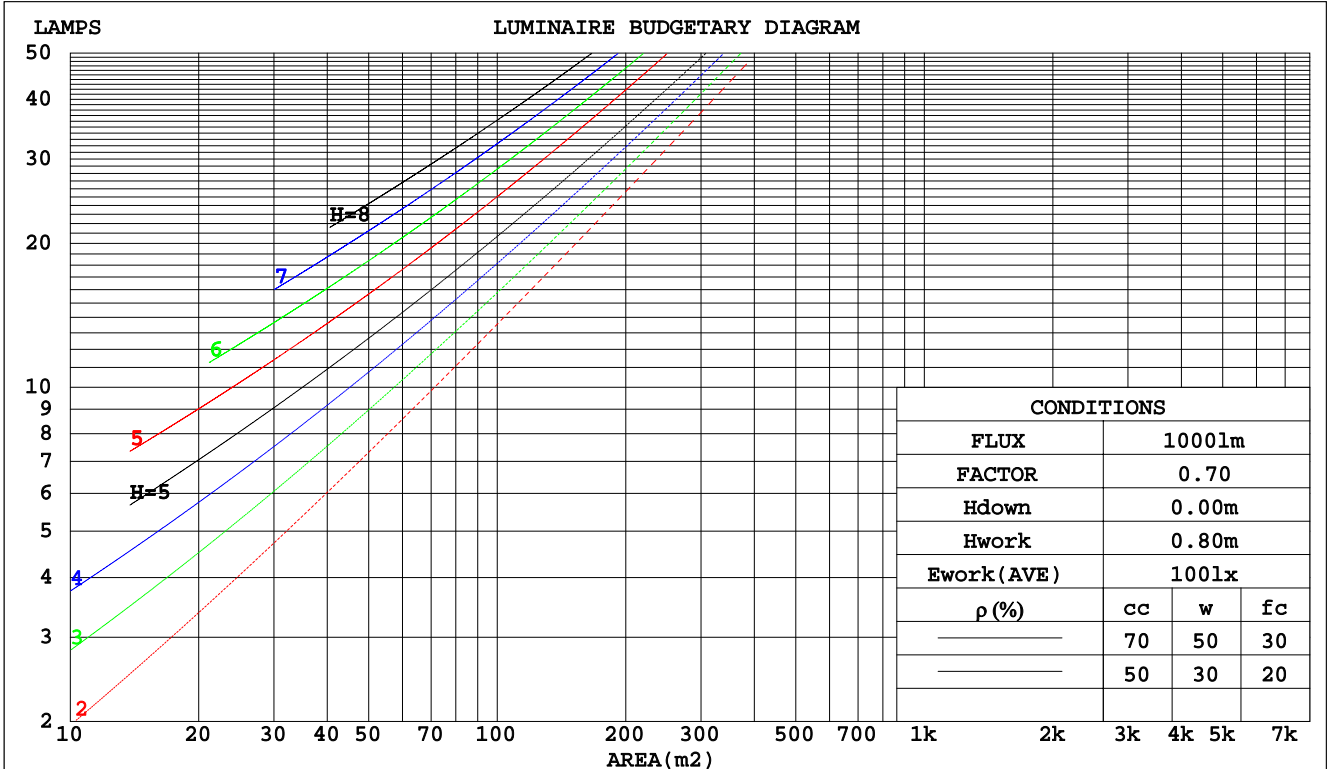
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

pcc	80%			70%			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	.00
1.0	1.05	1.01	.97	1.03	.99	.95	.98	.95	.92	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.76	.73	.71
3.0	.81	.73	.66	.79	.72	.66	.76	.70	.65	.73	.68	.63	.71	.66	.62	.60
4.0	.71	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.54	.51
5.0	.64	.55	.48	.63	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.44
6.0	.57	.49	.42	.56	.48	.42	.55	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.31
9.0	.43	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.29	.40	.34	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

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	.292	.166	.053	.285	.163	.052	.272	.156	.050	.260	.150	.048	.249	.144	.047	
2.0	.280	.153	.047	.274	.151	.046	.262	.146	.045	.252	.141	.044	.242	.137	.043	
3.0	.262	.139	.042	.256	.137	.041	.246	.133	.041	.237	.130	.040	.228	.126	.039	
4.0	.243	.127	.037	.239	.125	.037	.230	.122	.036	.221	.119	.036	.213	.116	.035	
5.0	.226	.115	.033	.222	.114	.033	.214	.111	.033	.206	.109	.032	.199	.107	.032	
6.0	.211	.106	.030	.207	.104	.030	.200	.102	.030	.193	.100	.029	.187	.098	.029	
7.0	.197	.097	.028	.193	.096	.027	.187	.094	.027	.181	.093	.027	.175	.091	.027	
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.081	.023	.160	.080	.023	.155	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.147	.074	.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	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.146	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.034	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

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	29.0	30.5	29.2	30.7	30.9	29.5	31.0	29.7	31.2	31.4
3H	30.1	31.5	30.4	31.7	32.0	30.9	32.3	31.2	32.5	32.8
4H	30.4	31.7	30.7	32.0	32.2	31.4	32.7	31.7	33.0	33.2
6H	30.5	31.7	30.8	32.0	32.2	31.8	33.0	32.1	33.3	33.6
8H	30.4	31.6	30.8	31.9	32.2	32.0	33.2	32.3	33.4	33.7
12H	30.4	31.5	30.7	31.8	32.1	32.1	33.2	32.4	33.5	33.8
4H 2H	29.6	30.9	29.9	31.2	31.4	30.0	31.3	30.3	31.6	31.8
3H	30.9	32.1	31.3	32.3	32.6	31.6	32.7	31.9	33.0	33.3
4H	31.3	32.3	31.7	32.6	33.0	32.2	33.2	32.6	33.6	33.9
6H	31.4	32.3	31.8	32.7	33.0	32.7	33.6	33.1	34.0	34.4
8H	31.4	32.2	31.8	32.6	33.0	32.9	33.8	33.4	34.2	34.6
12H	31.3	32.1	31.8	32.5	32.9	33.1	33.9	33.6	34.3	34.7
8H 4H	31.5	32.4	31.9	32.7	33.1	32.3	33.2	32.7	33.6	33.9
6H	31.7	32.4	32.1	32.8	33.2	33.0	33.7	33.4	34.1	34.5
8H	31.7	32.3	32.1	32.7	33.2	33.3	33.9	33.8	34.3	34.8
12H	31.7	32.2	32.1	32.6	33.1	33.6	34.1	34.1	34.6	35.0
12H 4H	31.5	32.3	31.9	32.7	33.1	32.3	33.1	32.7	33.5	33.9
6H	31.7	32.4	32.2	32.8	33.2	33.0	33.6	33.4	34.0	34.5
8H	31.7	32.3	32.2	32.7	33.2	33.3	33.9	33.8	34.3	34.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 30370 lm Total Lamp Luminous Flux. (8log(F/F0) = 11.9)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

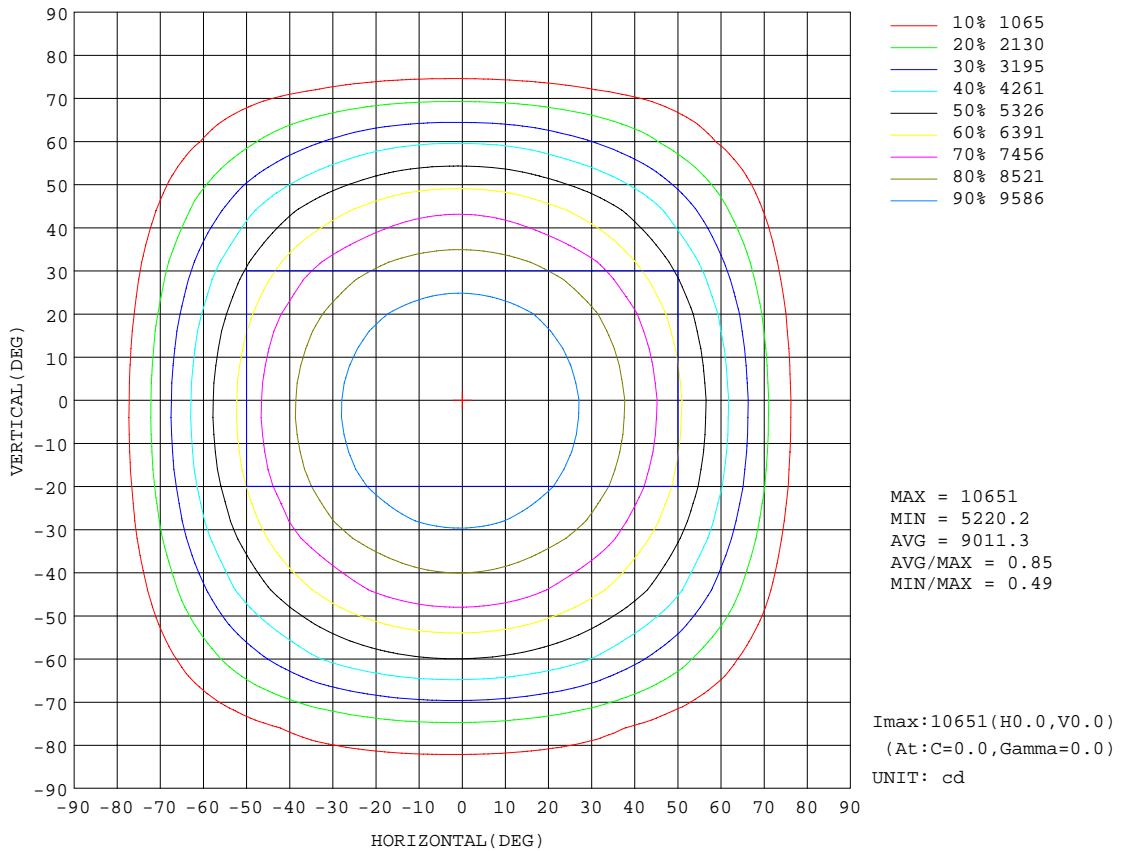
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	57	46	40	56	46	39	33
0.80	68	57	50	67	56	49	66	56	49	42
1.00	77	66	59	76	66	59	74	67	58	51
1.25	84	74	67	83	73	67	80	72	66	59
1.50	89	80	73	88	79	72	85	77	71	64
2.00	96	88	82	94	87	81	91	84	79	72
2.50	100	92	87	98	91	86	94	88	84	76
3.00	103	97	91	101	95	90	97	92	88	80
4.00	107	102	97	105	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
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: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

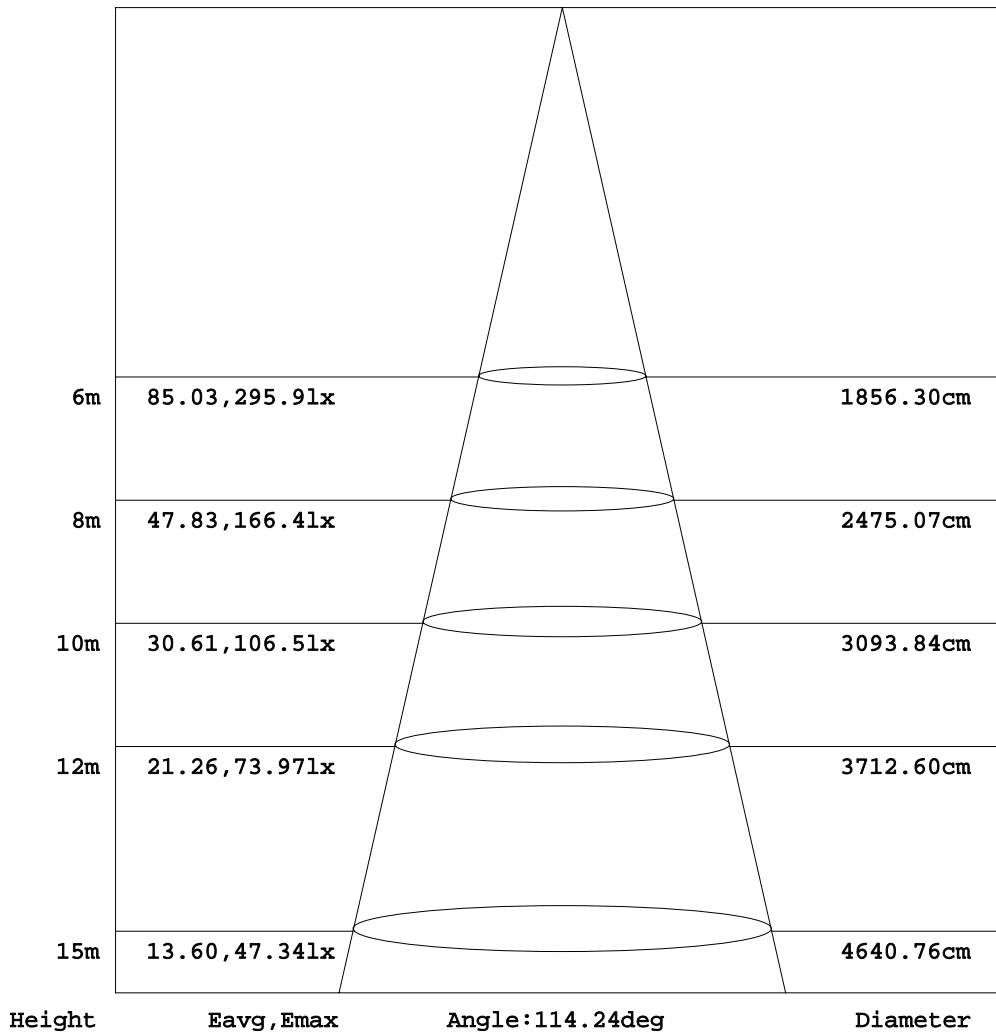


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

AAI Figure

Flux out:23694 lm



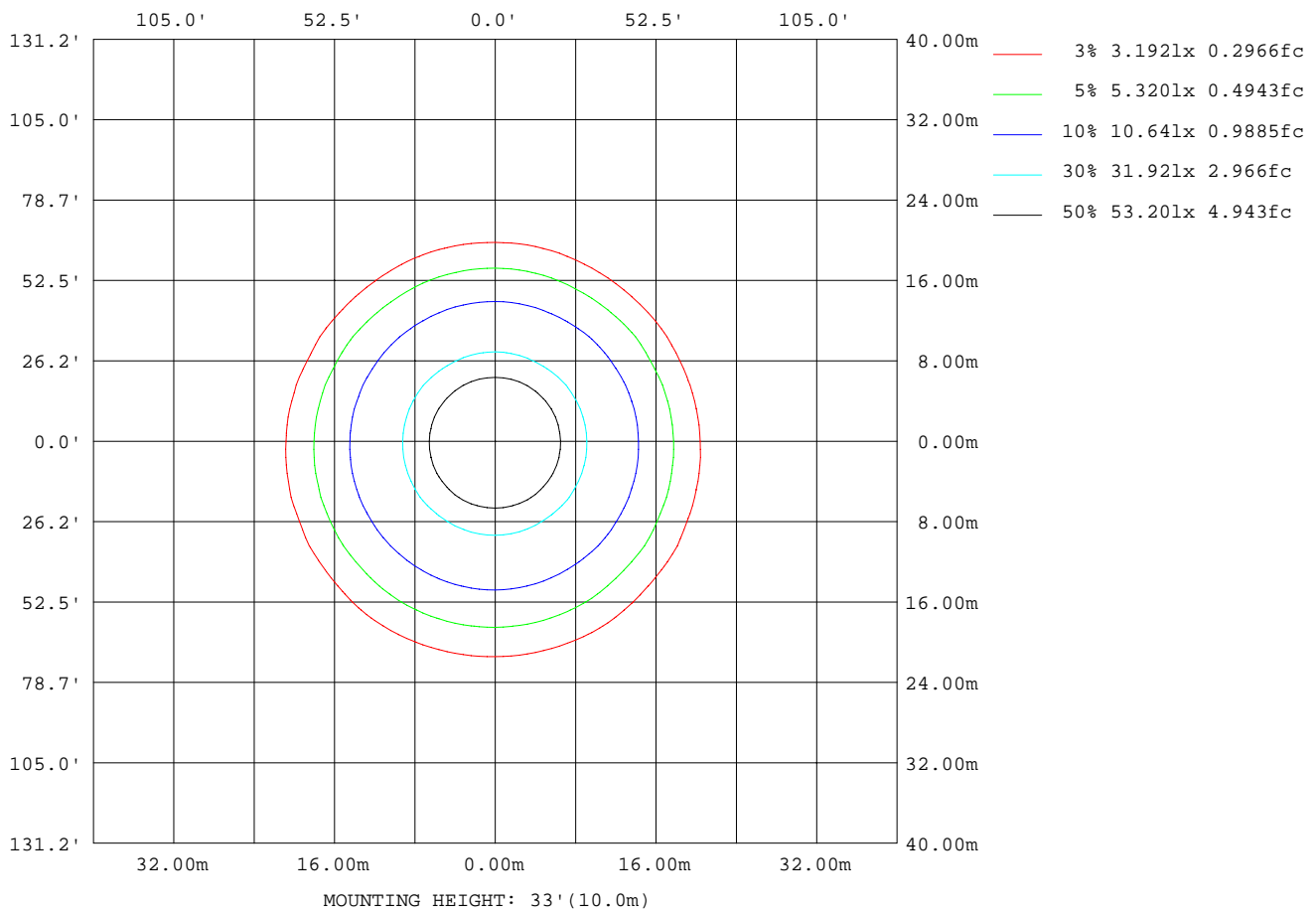
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

LED Avg.L Report

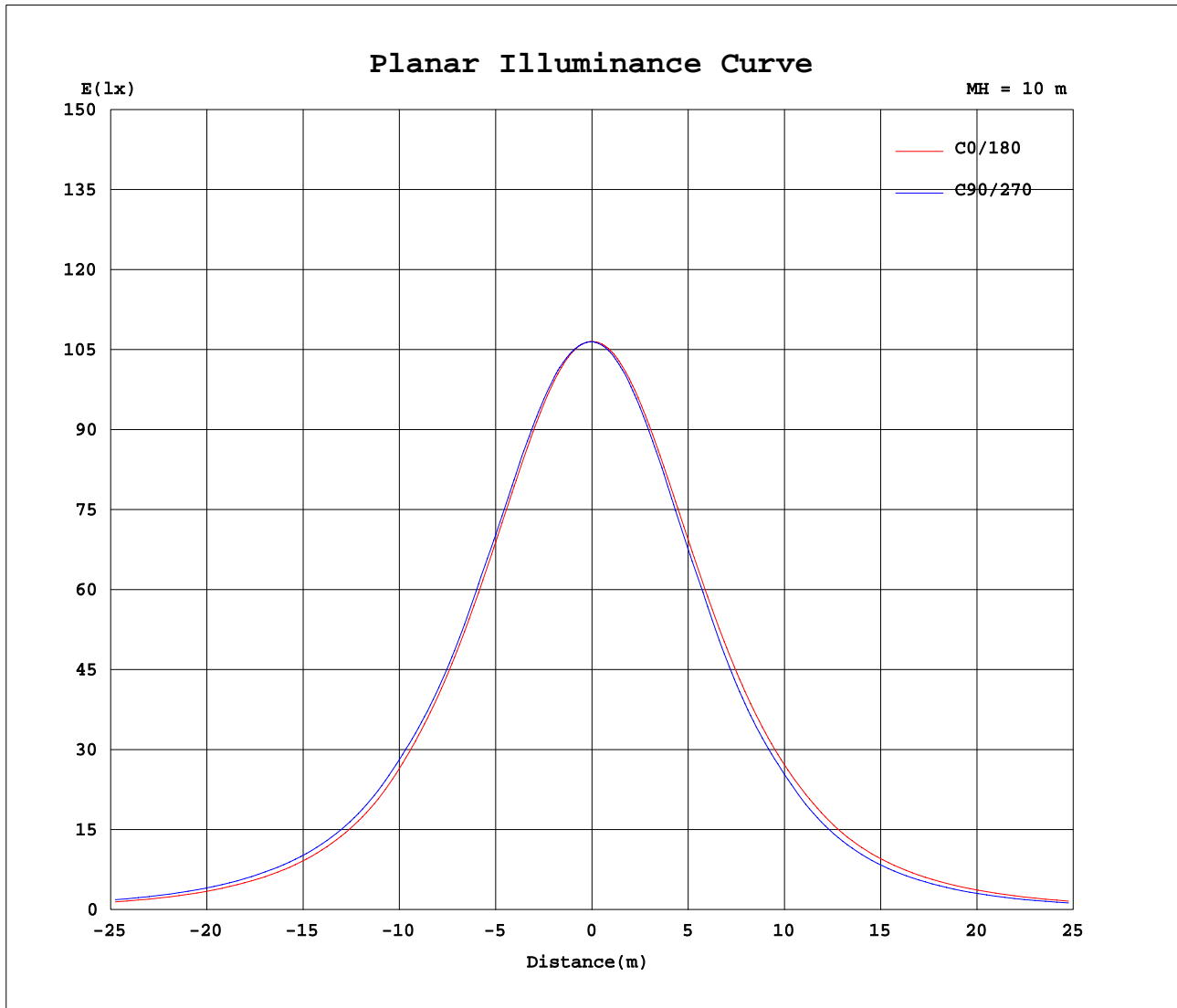
AvgL	cd/m2
L_0~180(65)av	86088
L_0~180(75)av	54237
L_0~180(85)av	3417
L_90~270(65)av	86168
L_90~270(75)av	58019
L_90~270(85)av	56653
L_45(65)av	85085
L_45(75)av	58463
L_45(85)av	35951

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065
5	1064	1064	1064	1064	1064	1064	1064	1064	1064	1064	1064	1064	1064	1064	1064	1064	1064	1064	1063
10	1059	1059	1059	1059	1058	1058	1058	1058	1057	1057	1057	1057	1057	1056	1055	1055	1055	1055	1054
15	1045	1045	1045	1045	1045	1044	1044	1043	1043	1043	1042	1042	1041	1041	1040	1039	1038	1038	1037
20	1024	1024	1024	1024	1023	1023	1022	1022	1021	1020	1020	1019	1018	1017	1016	1015	1014	1014	1012
25	992	992	992	992	992	993	993	993	992	991	990	989	987	986	985	984	982	981	979
30	960	960	959	958	957	955	954	953	953	954	952	951	950	947	946	945	943	941	939
35	907	907	908	909	910	911	913	910	907	905	905	905	903	901	899	897	895	893	891
40	853	853	852	851	850	849	850	851	855	853	849	847	847	845	842	840	838	835	833
45	796	796	796	793	789	785	782	780	780	783	790	783	780	779	778	774	772	768	766
50	711	712	713	713	714	714	711	705	701	700	703	707	700	697	696	693	690	685	683
55	622	623	622	622	621	620	619	617	616	613	609	605	605	600	598	596	590	585	582
60	533	533	532	531	529	527	524	520	516	514	514	508	504	505	498	496	490	486	482
65	423	424	425	426	427	428	429	423	414	409	407	407	400	394	396	389	383	378	373
70	313	314	315	315	315	315	315	312	308	305	299	294	286	282	276	271	267	260	256
75	206	207	206	204	203	203	203	201	198	196	192	186	179	173	166	161	156	151	146
80	135	135	134	131	127	123	117	109	99.4	94.1	90.6	87.2	83.9	78.3	70.2	63.6	59.2	54.4	49.9
85	68.8	68.7	68.1	66.6	64.7	62.1	59.1	54.5	49.7	44.2	37.1	28.0	18.4	9.76	11.1	6.48	3.44	3.36	3.08
90	2.32	2.39	2.44	2.40	2.25	2.06	1.92	1.86	1.83	1.77	1.72	1.69	1.65	1.65	1.70	1.80	1.92	1.54	1.61

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--3

UNIT: x10cd

γ (DEG) \ C (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065
5	1063	1062	1062	1062	1061	1061	1061	1061	1061	1061	1061	1060	1060	1060	1060	1060	1060	1060	1060
10	1053	1053	1052	1052	1051	1051	1050	1050	1049	1049	1048	1048	1048	1048	1048	1048	1048	1048	1048
15	1036	1035	1035	1034	1033	1032	1032	1031	1030	1029	1028	1028	1028	1027	1027	1027	1026	1026	1026
20	1011	1010	1008	1007	1007	1005	1004	1004	1003	1002	1001	1000	1000	999	999	998	998	998	998
25	978	976	975	973	972	971	970	968	968	965	963	961	960	959	958	957	957	957	957
30	938	935	934	932	931	928	927	923	920	918	917	917	917	916	916	916	916	915	915
35	888	886	884	882	880	875	872	870	869	869	864	860	856	854	853	852	851	850	850
40	830	827	825	822	817	813	813	810	801	794	791	789	788	787	787	786	786	785	784
45	762	760	756	749	746	747	734	725	719	715	714	716	718	720	719	718	717	716	715
50	677	673	666	661	659	651	643	636	634	633	631	629	627	625	623	621	620	619	619
55	578	572	566	563	554	549	547	543	536	531	527	525	524	523	521	520	518	518	517
60	478	470	467	455	452	449	441	434	428	424	423	423	423	421	420	418	417	417	416
65	366	361	351	343	342	335	328	324	321	318	317	317	315	313	310	308	307	307	307
70	249	241	238	231	225	221	219	218	216	213	210	208	205	202	200	198	197	196	197
75	140	133	129	125	123	124	123	120	115	109	104	99.8	96.5	96.2	95.6	95.3	94.6	94.0	93.1
80	46.1	45.2	45.5	48.4	45.4	40.0	36.8	36.3	41.0	45.1	49.1	52.2	54.8	56.7	57.7	58.4	58.3	57.5	56.0
85	3.33	5.53	3.14	4.57	7.90	11.5	15.4	18.7	21.1	23.3	25.3	27.0	28.3	29.3	29.8	30.2	30.1	29.7	29.0
90	1.63	1.66	1.70	1.72	1.75	1.78	1.80	1.83	1.85	1.87	1.89	1.91	1.93	1.94	1.95	1.96	1.96	1.97	1.98

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=1.0191]
 Test Date: 2016-08-04 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4

UNIT: x10cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065	1065				
5	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060	1061	1061	1061	1062	1062				
10	1047	1047	1047	1047	1047	1047	1048	1048	1048	1049	1049	1049	1050	1050	1051				
15	1026	1026	1026	1026	1026	1027	1028	1029	1029	1029	1029	1030	1031	1031	1032				
20	998	998	998	998	998	999	999	1000	1001	1002	1002	1003	1004	1005	1006				
25	957	958	959	960	962	964	964	964	965	966	968	969	969	971	972				
30	914	914	913	913	914	915	917	921	922	923	924	926	927	928	930				
35	851	852	854	858	863	862	862	864	868	872	872	873	876	877	879				
40	783	782	781	782	786	792	800	803	803	805	811	812	815	817	819				
45	714	709	706	705	706	709	714	721	727	725	730	735	737	742	743				
50	618	617	618	620	622	623	624	626	628	635	637	642	645	648	650				
55	516	515	514	515	519	524	531	532	532	535	542	545	552	553	557				
60	415	413	410	410	412	415	420	427	434	431	434	444	447	453	458				
65	307	306	305	305	306	307	310	314	317	322	324	327	333	340	344				
70	197	198	199	200	202	204	205	201	203	208	213	215	220	225	231				
75	92.2	91.2	93.5	97.4	102	106	110	111	111	108	110	114	117	120	125				
80	54.0	51.4	48.1	44.3	40.0	35.2	30.0	30.1	33.8	38.0	39.9	36.4	35.8	36.5	37.7				
85	27.9	26.7	24.9	22.9	20.7	18.2	15.5	12.3	8.93	5.54	3.20	2.52	4.14	2.60	2.45				
90	1.98	1.98	1.97	1.96	1.95	1.94	1.92	1.90	1.88	1.85	1.83	1.80	1.77	1.76	1.73				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-08-04

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=1.0191]
 Remarks: