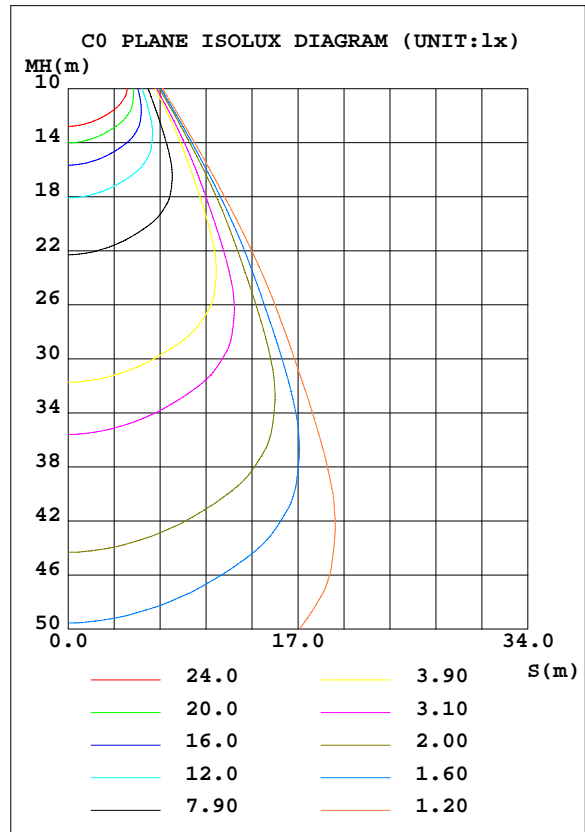
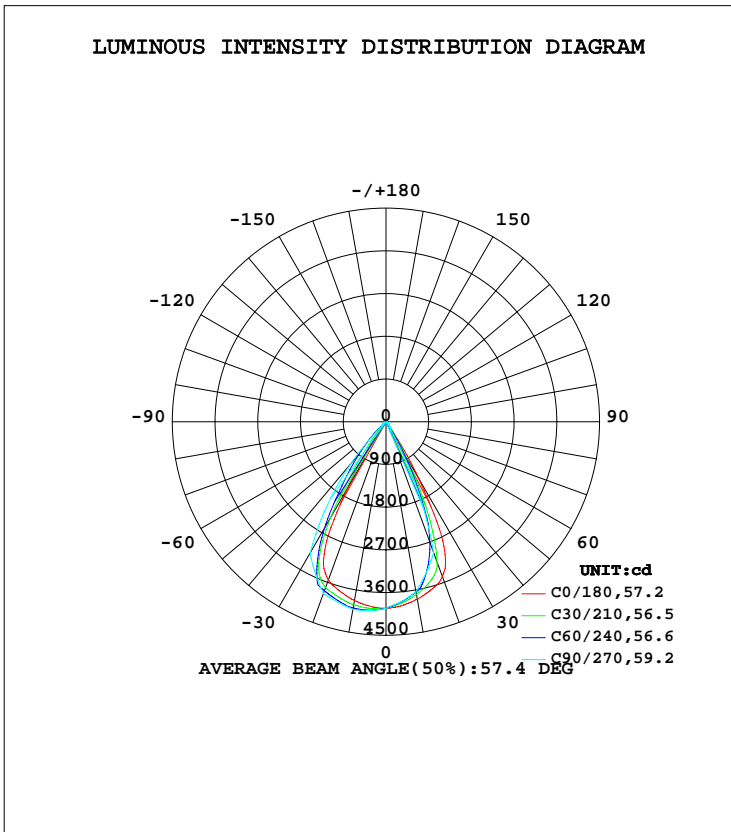


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.7V I:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 lm		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.57 lm/W			
MODEL		I _{max} (cd)	4012	S/MH(C0/180)	0.83
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.05
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3310.7	η UP, DN(C0-180)	0.0,38.4
NOMINAL FLUX(lm)	3310.69	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,61.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.70



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

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	3887	3814	3798	3826	3900	3969	3996	3956	0- 5	93.44	93.44	2.82,2.82
10	3793	3660	3639	3681	3825	3949	4012	3929	5- 10	275.5	368.9	11.1,11.1
15	3667	3414	3287	3451	3707	3882	3932	3854	10- 15	442.3	811.2	24.5,24.5
20	3471	2704	2935	2791	3550	3741	3851	3710	15- 20	578.7	1390	42,42
25	2895	1632	1571	1767	3081	3537	3523	3471	20- 25	642.0	2032	61.4,61.4
30	1386	691.5	207.3	771.7	1648	2673	3196	2525	25- 30	546.5	2578	77.9,77.9
35	200.9	254.0	163.4	287.0	328.8	1314	2174	1175	30- 35	332.1	2911	87.9,87.9
40	106.9	87.99	119.6	89.57	112.7	407.5	1152	324.7	35- 40	163.5	3074	92.9,92.9
45	87.42	74.29	79.13	75.79	89.59	171.0	230.2	134.1	40- 45	81.45	3156	95.3,95.3
50	74.81	62.70	66.44	64.17	75.77	88.70	104.9	84.31	45- 50	38.19	3194	96.5,96.5
55	64.37	52.46	57.23	54.00	64.92	69.36	79.20	69.47	50- 55	29.64	3223	97.4,97.4
60	51.64	42.31	48.01	44.14	53.30	56.81	53.48	56.87	55- 60	25.81	3249	98.1,98.1
65	38.25	32.09	39.00	33.89	39.70	44.99	35.95	44.56	60- 65	21.29	3270	98.8,98.8
70	27.03	23.81	29.98	25.11	28.26	31.77	18.43	30.95	65- 70	16.35	3287	99.3,99.3
75	17.45	18.02	21.26	18.66	18.52	16.71	2.639	15.98	70- 75	11.16	3298	99.6,99.6
80	14.91	12.44	14.89	12.73	14.97	3.895	0.6696	3.341	75- 80	6.768	3305	99.8,99.8
85	5.282	7.513	8.814	7.843	6.812	2.097	0.4278	1.798	80- 85	4.210	3309	99.9,99.9
90	0.3571	2.582	2.738	2.968	0.2701	0.1934	0.1860	0.1860	85- 90	1.732	3311	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): 3155.5 lm

%lum = 95.3%
%lamp = 95.3%

Conical surface Flux(120deg): 3249.2 lm

%lum = 98.1%
%lamp = 98.1%

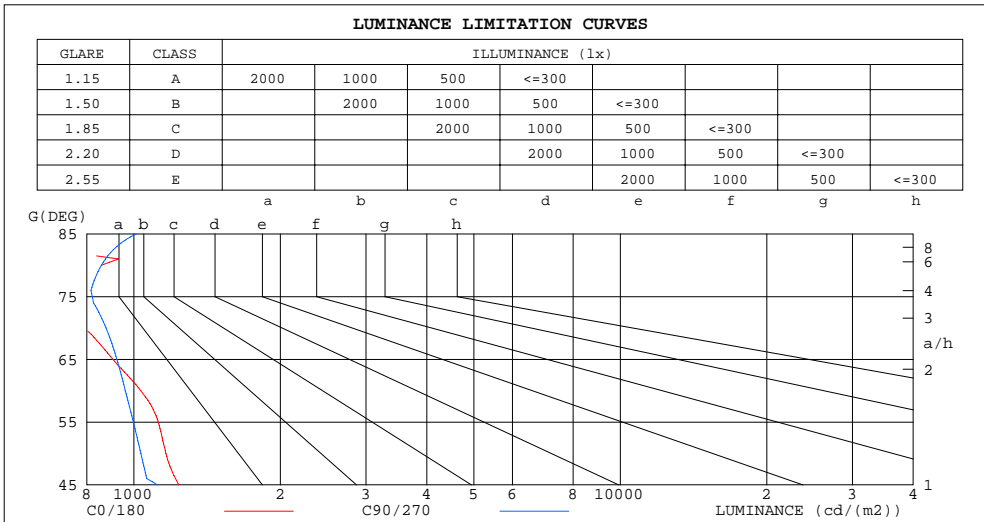
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-09-03

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:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	606	1011
80	858	857
75	674	821
70	790	877
65	905	923
60	1033	960
55	1122	998
50	1164	1034
45	1236	1119

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

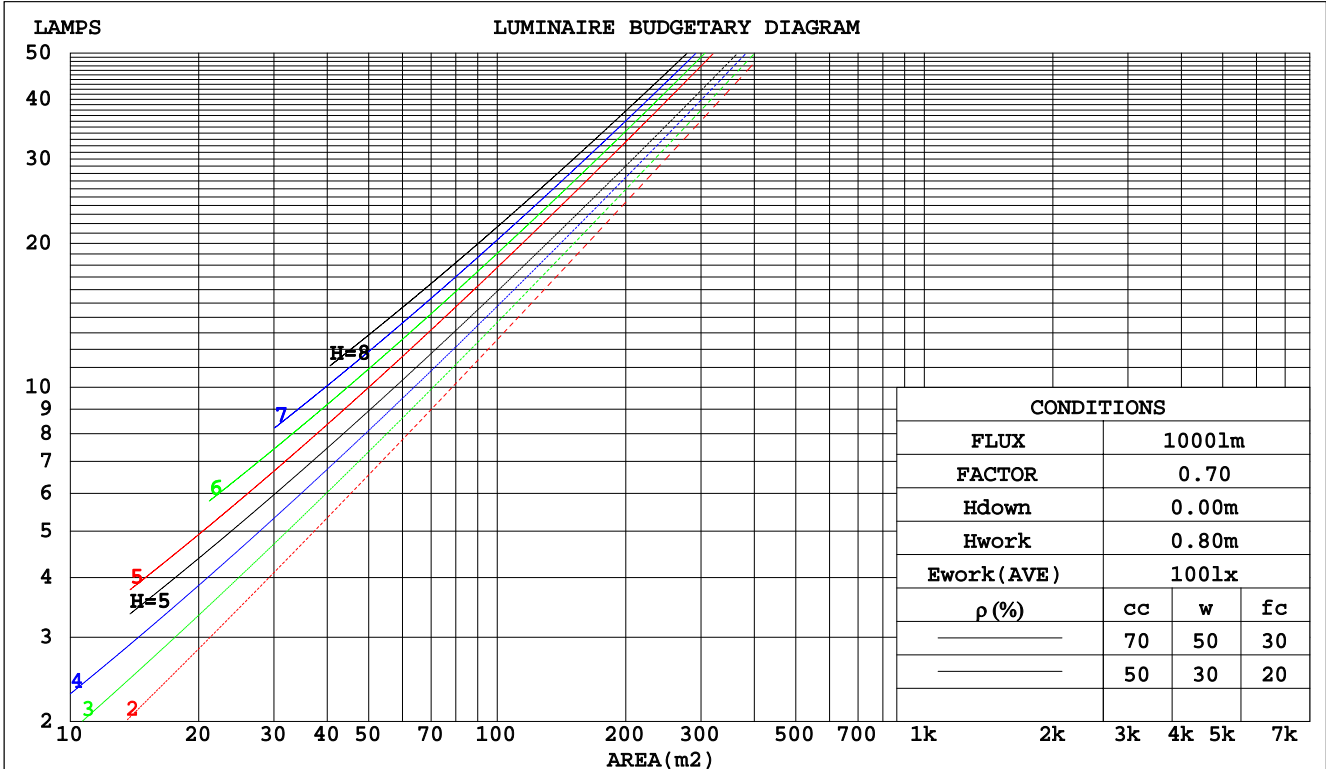
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.7V I:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 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
1.0	1.11	1.08	1.06	1.09	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.93	.95	.93	.91	.92	.90	.89	.87
3.0	.96	.91	.88	.95	.90	.87	.92	.89	.85	.90	.87	.84	.88	.85	.83	.81
4.0	.90	.85	.81	.89	.84	.80	.87	.83	.79	.85	.81	.78	.83	.80	.77	.76
5.0	.85	.79	.75	.84	.79	.75	.82	.77	.74	.80	.76	.73	.79	.75	.73	.71
6.0	.80	.74	.70	.79	.74	.70	.78	.73	.69	.76	.72	.69	.75	.71	.68	.67
7.0	.75	.70	.65	.75	.69	.65	.73	.69	.65	.72	.68	.65	.71	.67	.64	.63
8.0	.71	.65	.61	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.59
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.57	.64	.60	.57	.56
10.0	.64	.58	.55	.64	.58	.55	.63	.58	.54	.62	.58	.54	.61	.57	.54	.53



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-03

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:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 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	.179	.102	.032	.172	.098	.031	.160	.092	.029	.148	.085	.027	.137	.080	.026	
2.0	.170	.093	.029	.164	.091	.028	.154	.086	.027	.144	.081	.025	.135	.076	.024	
3.0	.161	.086	.026	.156	.084	.025	.147	.080	.024	.139	.076	.023	.131	.073	.022	
4.0	.153	.079	.023	.149	.078	.023	.141	.075	.022	.134	.072	.022	.127	.069	.021	
5.0	.145	.074	.021	.142	.073	.021	.135	.070	.021	.128	.068	.020	.123	.066	.020	
6.0	.138	.069	.020	.135	.068	.020	.129	.066	.019	.124	.064	.019	.118	.062	.019	
7.0	.132	.065	.018	.129	.064	.018	.124	.063	.018	.119	.061	.018	.114	.059	.017	
8.0	.126	.062	.017	.124	.061	.017	.119	.059	.017	.115	.058	.017	.110	.057	.017	
9.0	.121	.058	.016	.119	.058	.016	.114	.057	.016	.110	.055	.016	.107	.054	.016	
10.0	.116	.056	.015	.114	.055	.015	.110	.054	.015	.107	.053	.015	.103	.052	.015	

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																
1.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.090	.123	.098	.078	.084	.068	.055	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.079	.060	.044	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.107	.075	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.104	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.031	.086	.051	.027	.059	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.095	.054	.028	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

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:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 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	6.8	7.7	7.0	7.9	8.1	4.4	5.4	4.7	5.5	5.7
3H	7.6	8.5	7.9	8.7	8.9	5.8	6.7	6.1	6.9	7.1
4H	7.9	8.7	8.2	9.0	9.2	6.4	7.2	6.7	7.5	7.7
6H	8.2	9.0	8.5	9.2	9.5	7.0	7.8	7.3	8.0	8.2
8H	8.4	9.2	8.7	9.4	9.7	7.3	8.0	7.6	8.3	8.5
12H	8.5	9.2	8.8	9.5	9.8	7.5	8.2	7.8	8.5	8.8
4H 2H	7.0	7.8	7.2	8.0	8.2	5.0	5.8	5.2	6.0	6.2
3H	8.0	8.7	8.3	9.0	9.2	6.5	7.2	6.8	7.5	7.8
4H	8.4	9.1	8.8	9.4	9.7	7.3	7.9	7.6	8.2	8.5
6H	8.9	9.5	9.3	9.8	10.1	8.0	8.5	8.4	8.9	9.2
8H	9.2	9.7	9.6	10.1	10.4	8.3	8.8	8.7	9.2	9.5
12H	9.4	9.8	9.8	10.2	10.6	8.6	9.1	9.0	9.5	9.8
8H 4H	8.6	9.1	9.0	9.5	9.8	7.5	8.1	7.9	8.4	8.8
6H	9.2	9.6	9.6	10.0	10.4	8.5	8.9	8.9	9.3	9.7
8H	9.6	10.0	10.0	10.4	10.8	8.9	9.3	9.4	9.7	10.1
12H	9.9	10.2	10.3	10.6	11.1	9.3	9.7	9.8	10.1	10.6
12H 4H	8.6	9.1	9.0	9.4	9.8	7.6	8.0	8.0	8.4	8.8
6H	9.2	9.6	9.7	10.0	10.5	8.5	8.9	9.0	9.3	9.8
8H	9.7	10.0	10.1	10.4	10.9	9.0	9.4	9.5	9.8	10.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.3 / - 0.3				
1.5H	+ 0.2 / - 0.2					+ 0.5 / - 0.3				
2.0H	+ 0.3 / - 0.5					+ 0.4 / - 0.4				

CIE Pub.117 Corrected 3311 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.2)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

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:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 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	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	84	81
1.00	99	93	90	98	93	89	96	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	97	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	103	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

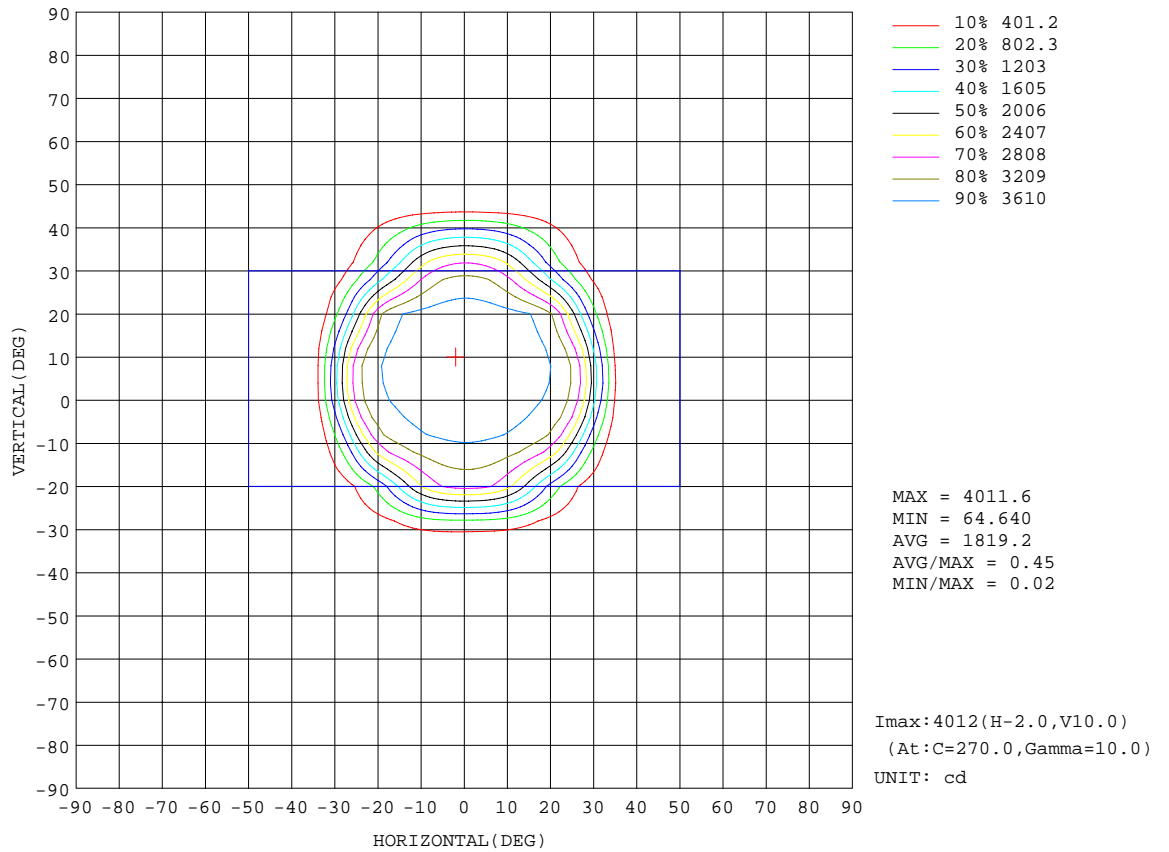
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

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:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-03

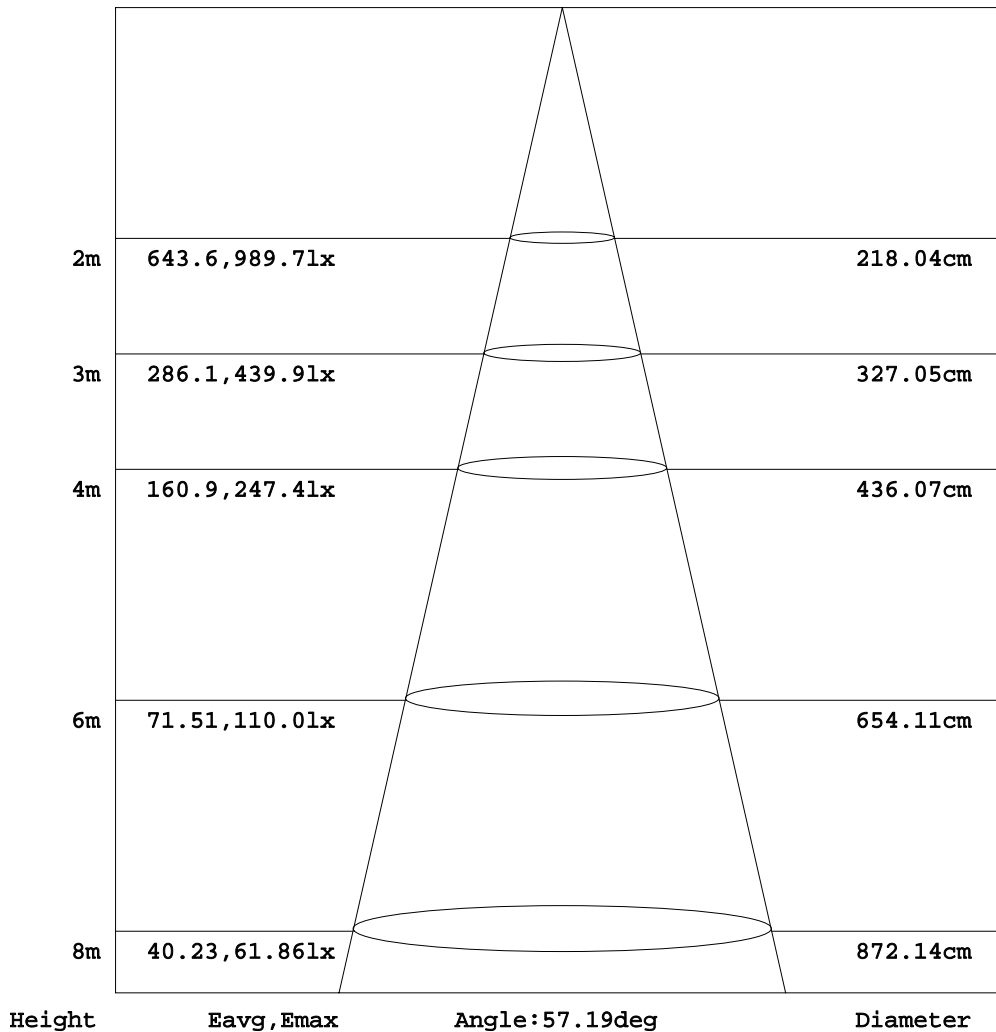
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.7V I:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 lm		

Flux out:2485 lm



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

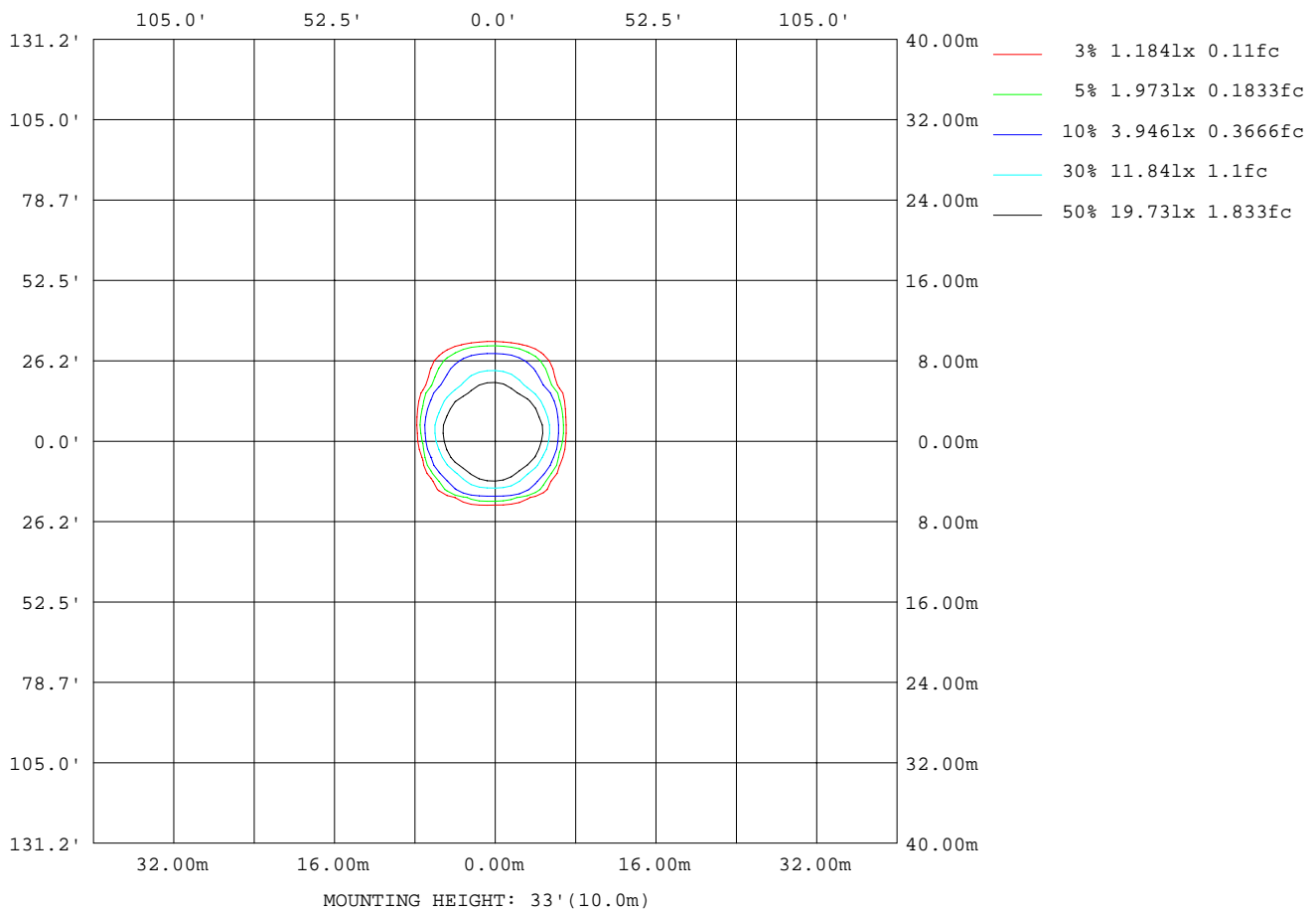
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-03

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:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

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:

LED Avg.L Report

Test:U:120.7V I:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 lm		

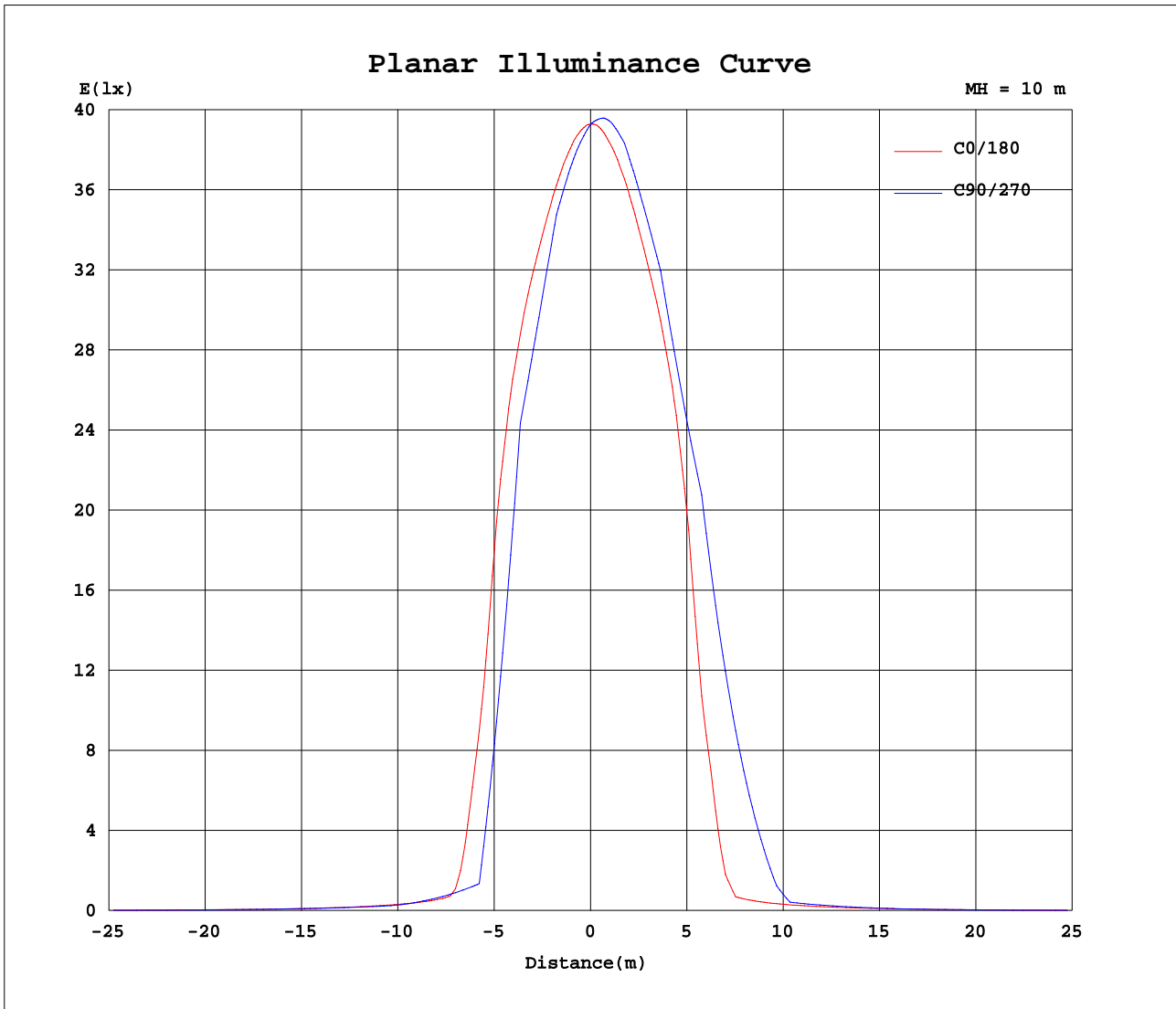
AvgL	cd/m2
L_0~180(65)av	922
L_0~180(75)av	695
L_0~180(85)av	694
L_90~270(65)av	887
L_90~270(75)av	462
L_90~270(85)av	530
L_45(65)av	920
L_45(75)av	670
L_45(85)av	552

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

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: 2016-09-03

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:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 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	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
5	3887	3877	3866	3856	3847	3839	3831	3824	3818	3814	3810	3807	3803	3801	3799	3798	3798	3798	3798
10	3793	3773	3754	3737	3722	3708	3695	3683	3671	3660	3653	3648	3643	3640	3637	3636	3637	3638	3639
15	3667	3636	3608	3584	3558	3534	3511	3496	3483	3414	3351	3311	3289	3280	3277	3278	3279	3282	3287
20	3471	3415	3370	3312	3250	3207	3146	2954	2804	2704	2659	2664	2703	2761	2820	2868	2901	2921	2935
25	2895	2731	2599	2431	2266	2154	2027	1882	1731	1632	1614	1679	1725	1738	1713	1667	1617	1580	1571
30	1386	1234	1116	993	906	874	832	744	643	692	720	728	697	625	520	403	299	230	207
35	201	205	217	199	228	238	192	206	242	254	219	125	119	131	144	153	158	162	163
40	107	106	104	102	99.8	97.6	95.7	95.8	98.3	88.0	88.1	88.9	91.5	97.3	104	109	114	118	120
45	87.4	86.8	85.7	84.3	83.1	81.2	79.1	76.7	75.3	74.3	73.4	72.7	72.0	71.9	71.1	69.8	72.3	77.3	79.1
50	74.8	74.4	73.3	72.4	71.2	69.4	67.4	65.6	64.2	62.7	61.0	59.1	57.8	56.6	56.0	56.0	58.6	64.4	66.4
55	64.4	63.8	62.8	62.3	60.6	59.1	57.2	55.5	54.1	52.5	50.8	49.6	48.8	47.7	47.4	48.0	50.4	55.5	57.2
60	51.6	51.0	50.4	49.9	49.4	48.7	47.3	45.8	44.0	42.3	41.0	40.4	39.9	38.9	38.5	39.8	42.4	46.7	48.0
65	38.3	37.6	37.6	37.6	38.3	39.0	37.6	35.6	33.7	32.1	31.1	31.1	31.9	31.5	31.3	32.0	34.3	37.7	39.0
70	27.0	26.5	28.1	28.3	28.1	29.1	27.8	25.7	24.0	23.8	24.2	25.6	25.8	25.5	25.2	24.6	26.4	28.9	30.0
75	17.4	18.8	19.2	19.0	19.0	18.4	19.0	18.8	18.4	18.0	18.4	20.0	20.2	19.6	19.3	17.6	18.7	20.4	21.3
80	14.9	14.5	13.8	14.3	12.7	12.2	12.9	13.2	12.8	12.4	12.8	14.2	15.0	14.0	14.0	12.5	13.1	14.2	14.9
85	5.28	6.20	6.87	7.78	7.30	7.41	7.46	7.64	7.52	7.51	7.74	8.53	9.15	8.54	8.60	7.67	7.75	8.38	8.81
90	0.36	0.84	0.94	1.12	1.51	2.05	2.15	2.06	2.25	2.58	2.77	3.10	2.92	3.02	3.17	2.86	2.47	2.58	2.74

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:25DEG Operators: Test Date:2016-09-03	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:120.7V I:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 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	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
5	3800	3802	3804	3806	3808	3812	3817	3821	3826	3832	3838	3845	3852	3860	3869	3878	3889	3900	3906
10	3641	3641	3644	3647	3652	3657	3663	3671	3681	3693	3705	3718	3732	3748	3765	3784	3804	3825	3838
15	3288	3291	3295	3301	3309	3325	3350	3390	3451	3517	3530	3547	3570	3595	3621	3645	3674	3707	3726
20	2932	2923	2904	2873	2831	2783	2753	2750	2791	2888	3041	3242	3303	3339	3393	3446	3493	3550	3579
25	1590	1638	1704	1771	1816	1836	1805	1754	1767	1862	2026	2218	2394	2513	2652	2808	2932	3081	3147
30	238	315	427	554	674	756	803	805	772	733	861	990	1058	1095	1191	1331	1468	1648	1759
35	167	170	169	162	148	131	134	239	287	286	242	230	298	302	282	283	289	329	384
40	121	120	119	115	106	96.9	91.8	89.9	89.6	105	99.7	97.0	99.2	103	106	108	109	113	115
45	76.8	72.4	72.2	75.1	75.3	74.5	74.3	74.9	75.8	76.7	78.0	80.2	82.3	84.4	85.8	87.3	88.0	89.6	90.9
50	63.4	57.9	56.4	57.2	58.0	59.3	60.7	62.6	64.2	65.6	67.0	68.5	70.4	72.0	73.2	74.1	74.7	75.8	76.7
55	54.3	49.5	47.6	47.8	48.9	50.0	51.2	52.5	54.0	55.6	57.0	58.5	60.2	61.5	62.7	63.2	63.9	64.9	65.8
60	45.4	41.1	38.5	38.4	39.8	41.2	42.4	43.2	44.1	45.7	47.5	48.7	49.8	50.8	51.0	51.4	52.2	53.3	54.3
65	36.7	33.2	31.3	31.3	32.2	33.2	33.5	33.5	33.9	35.0	36.8	38.5	39.7	39.6	38.5	38.3	38.7	39.7	41.0
70	28.0	25.6	24.6	25.2	25.8	27.4	26.4	25.6	25.1	24.7	26.4	28.4	30.2	29.5	28.6	28.2	27.2	28.3	29.0
75	19.8	18.2	18.3	18.9	19.3	22.3	19.3	18.8	18.7	18.9	19.6	20.1	19.8	19.9	19.9	20.4	18.9	18.5	19.3
80	13.8	12.8	13.1	13.5	13.7	15.9	13.1	12.8	12.7	13.5	14.5	14.3	13.4	13.7	14.8	15.3	15.6	15.0	14.4
85	8.26	7.67	8.03	8.39	8.37	9.37	8.09	7.89	7.84	8.14	8.64	8.36	8.78	10.1	8.93	9.37	7.12	6.81	8.33
90	2.68	2.58	2.92	3.31	3.07	3.20	3.19	3.05	2.97	2.70	2.37	2.48	2.38	2.36	2.17	1.67	1.13	0.27	0.19

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:2016-09-03	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.2271A P:27.23W PF:0.9936 Lamp Flux:3310.69x1 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	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927				
5	3990	3986	3982	3976	3971	3964	3956	3948	3940	3932	3924	3916	3908	3901	3894				
10	3996	3986	3975	3964	3952	3940	3929	3920	3908	3889	3873	3857	3839	3822	3807				
15	3911	3900	3889	3880	3869	3861	3854	3843	3820	3799	3782	3761	3739	3712	3688				
20	3818	3802	3785	3768	3749	3728	3710	3691	3682	3685	3663	3629	3597	3556	3510				
25	3438	3397	3375	3392	3474	3552	3471	3388	3301	3248	3263	3248	3163	3079	2977				
30	2938	2761	2591	2482	2465	2501	2525	2468	2265	2132	2043	1943	1790	1666	1514				
35	2029	1877	1663	1445	1215	1197	1175	1085	950	828	710	570	422	324	271				
40	1106	1032	925	785	626	473	325	295	257	176	128	117	114	111	109				
45	261	320	348	330	281	209	134	102	98.1	97.1	95.6	93.8	91.3	89.9	88.7				
50	86.2	84.7	83.4	84.4	98.7	95.7	84.3	82.7	81.9	81.6	80.6	79.6	78.1	76.7	75.9				
55	67.0	67.1	67.4	67.6	67.9	68.5	69.5	69.9	69.7	69.3	69.3	68.3	67.6	66.1	65.4				
60	48.3	50.6	52.5	53.9	55.0	55.9	56.9	58.0	58.8	58.3	57.5	57.1	55.6	54.2	52.9				
65	32.7	35.0	37.5	40.0	42.4	43.7	44.6	45.3	45.9	46.3	45.4	43.7	42.2	40.7	39.2				
70	17.6	19.4	21.6	24.0	26.5	28.8	31.0	32.5	32.6	32.7	32.8	32.8	30.2	28.7	27.6				
75	3.10	3.83	5.64	8.06	10.8	13.5	16.0	18.1	19.5	20.3	21.5	21.6	20.5	19.7	18.1				
80	0.67	0.75	1.06	1.53	2.16	2.74	3.34	5.16	7.20	9.45	11.4	12.2	13.0	13.4	14.1				
85	0.43	0.47	0.64	0.88	1.19	1.49	1.80	2.22	2.62	3.09	3.68	4.08	5.19	6.84	5.50				
90	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.20				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

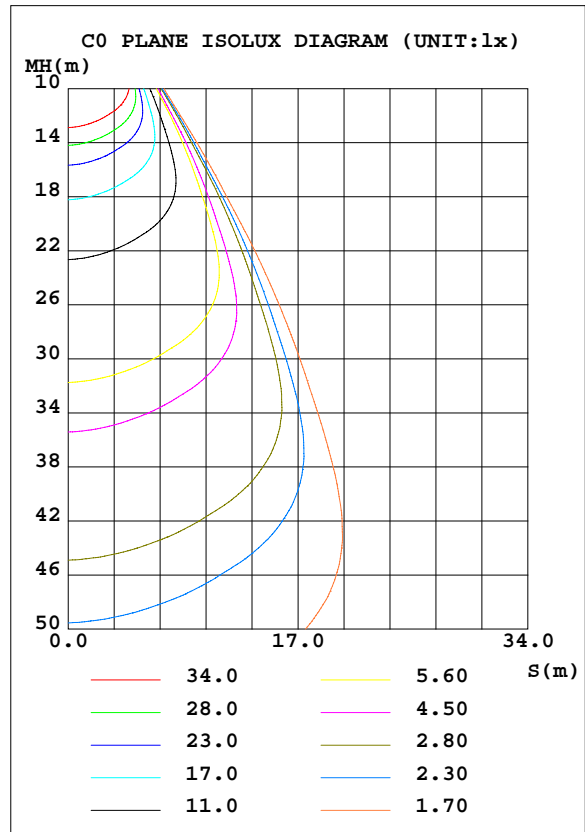
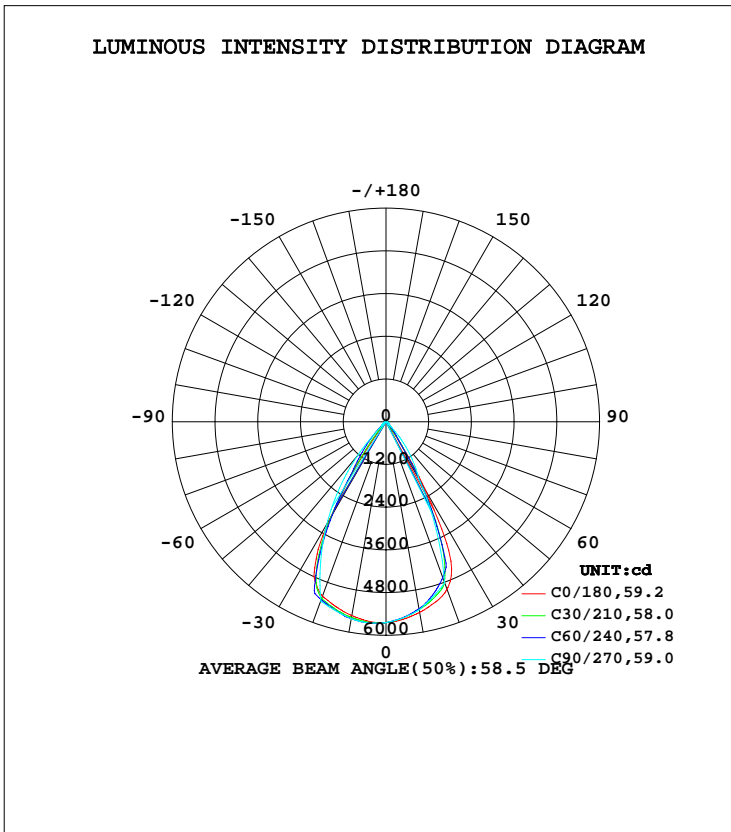
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 lm		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.08 lm/W			
MODEL		I _{max} (cd)	5678	S/MH(C0/180)	0.88
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	0.96
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4949.1	η UP, DN(C0-180)	0.0,46.0
NOMINAL FLUX(lm)	4949.13	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,54.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.80



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

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	5569	5522	5530	5565	5630	5665	5670	5625	0- 5	134.3	134.3	2.71,2.71
10	5441	5337	5366	5409	5529	5599	5625	5537	5- 10	396.0	530.3	10.7,10.7
15	5263	5088	5092	5197	5386	5474	5493	5385	10- 15	638.8	1169	23.6,23.6
20	5010	4570	4819	4790	5213	5254	5361	5099	15- 20	851.7	2021	40.8,40.8
25	4320	3487	3333	3949	4788	4829	4346	4484	20- 25	977.2	2998	60.6,60.6
30	2226	1827	1847	2273	3131	3317	3330	2775	25- 30	852.0	3850	77.8,77.8
35	350.0	665.1	1283	869.9	936.4	1479	2282	1117	30- 35	502.8	4353	88,88
40	178.7	168.6	718.9	191.1	196.9	377.6	1234	250.1	35- 40	231.3	4584	92.6,92.6
45	142.7	134.4	208.6	140.9	151.4	191.2	286.3	153.3	40- 45	114.5	4699	94.9,94.9
50	121.9	111.9	127.7	116.0	127.3	129.7	148.7	122.8	45- 50	58.75	4757	96.1,96.1
55	105.5	94.37	100.6	97.11	109.8	105.1	112.4	102.5	50- 55	47.88	4805	97.1,97.1
60	87.98	80.67	73.41	83.10	92.86	86.73	76.04	84.09	55- 60	41.80	4847	97.9,97.9
65	68.22	67.05	63.10	70.45	74.17	69.13	50.80	65.96	60- 65	35.06	4882	98.6,98.6
70	48.58	51.73	52.78	56.38	54.33	48.65	25.56	45.28	65- 70	27.68	4910	99.2,99.2
75	30.78	35.91	42.13	39.21	35.63	24.60	2.852	21.95	70- 75	19.21	4929	99.6,99.6
80	21.38	21.75	28.80	22.85	21.11	3.976	0.3397	2.462	75- 80	11.29	4940	99.8,99.8
85	5.291	11.46	15.13	12.09	8.226	2.230	0.3521	1.465	80- 85	6.478	4947	100,100
90	0.6510	1.291	1.466	1.388	0.4494	0.3683	0.3645	0.3831	85- 90	2.349	4949	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): 4698.6 lm

%lum = 94.9%
%lamp = 94.9%

Conical surface Flux(120deg): 4847.1 lm

%lum = 97.9%
%lamp = 97.9%

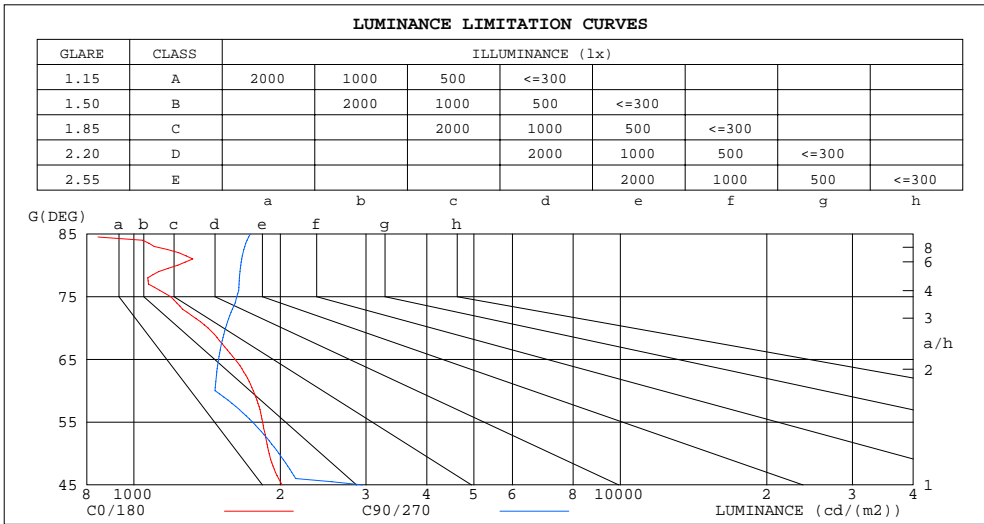
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-09-03

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:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	607	1736
80	1231	1658
75	1189	1628
70	1420	1543
65	1614	1493
60	1760	1468
55	1839	1753
50	1897	1987
45	2018	2949

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-03

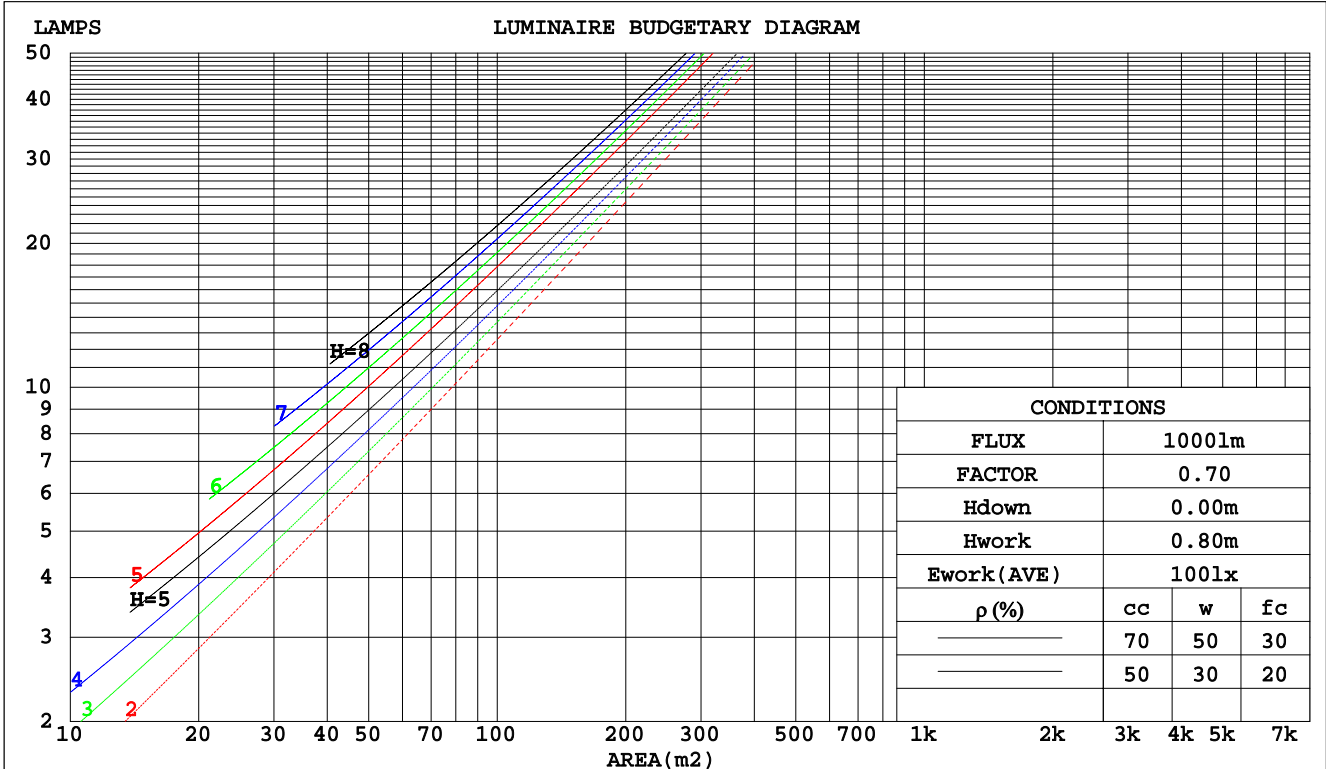
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.5V I:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 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																
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	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.96	1.01	.98	.94	.98	.95	.92	.95	.93	.90	.92	.90	.89	.87
3.0	.96	.91	.87	.95	.90	.87	.92	.88	.85	.90	.87	.84	.87	.85	.83	.81
4.0	.90	.85	.80	.89	.84	.80	.87	.82	.79	.85	.81	.78	.83	.80	.77	.76
5.0	.85	.79	.75	.84	.78	.74	.82	.77	.74	.80	.76	.73	.79	.75	.72	.71
6.0	.80	.74	.69	.79	.73	.69	.77	.72	.69	.76	.72	.68	.75	.71	.68	.66
7.0	.75	.69	.65	.74	.69	.65	.73	.68	.64	.72	.67	.64	.71	.67	.64	.62
8.0	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.60	.67	.63	.60	.59
9.0	.67	.61	.57	.67	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.55
10.0	.64	.58	.54	.63	.58	.54	.62	.57	.54	.62	.57	.54	.61	.57	.54	.52



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-03

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:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 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	.180	.103	.033	.174	.099	.031	.161	.092	.030	.149	.086	.028	.139	.080	.026	
2.0	.171	.094	.029	.166	.091	.028	.155	.086	.027	.145	.082	.026	.136	.077	.024	
3.0	.162	.086	.026	.158	.084	.025	.149	.081	.024	.140	.077	.024	.132	.073	.023	
4.0	.154	.080	.024	.150	.078	.023	.142	.075	.022	.135	.072	.022	.128	.070	.021	
5.0	.146	.075	.022	.143	.073	.021	.136	.071	.021	.130	.068	.020	.124	.066	.020	
6.0	.139	.070	.020	.136	.069	.020	.130	.067	.019	.125	.065	.019	.119	.063	.019	
7.0	.133	.066	.019	.130	.065	.018	.125	.063	.018	.120	.061	.018	.115	.060	.018	
8.0	.127	.062	.017	.125	.061	.017	.120	.060	.017	.115	.058	.017	.111	.057	.017	
9.0	.122	.059	.016	.119	.058	.016	.115	.057	.016	.111	.056	.016	.107	.055	.016	
10.0	.117	.056	.016	.115	.055	.015	.111	.054	.015	.107	.053	.015	.104	.052	.015	

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	.171	.157	.145	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.090	.123	.098	.078	.085	.068	.054	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.072	.114	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.060	.107	.075	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.101	.067	.043	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.111	.070	.042	.095	.061	.037	.066	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.105	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.100	.059	.031	.086	.051	.027	.059	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.095	.055	.028	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

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:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 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	9.8	10.7	10.0	10.9	11.1	10.9	11.9	11.2	12.0	12.2
3H	10.5	11.4	10.8	11.6	11.8	11.3	12.1	11.5	12.3	12.5
4H	10.8	11.7	11.1	11.9	12.1	11.5	12.3	11.8	12.6	12.8
6H	11.0	11.8	11.3	12.1	12.3	11.8	12.6	12.1	12.8	13.1
8H	11.2	11.9	11.5	12.2	12.4	12.0	12.7	12.3	12.9	13.2
12H	11.2	11.9	11.5	12.2	12.5	12.1	12.8	12.4	13.0	13.3
4H 2H	10.0	10.8	10.3	11.0	11.2	11.0	11.8	11.3	12.0	12.3
3H	10.9	11.6	11.3	11.9	12.2	11.5	12.2	11.8	12.5	12.8
4H	11.3	12.0	11.7	12.3	12.6	11.9	12.5	12.2	12.8	13.1
6H	11.7	12.2	12.1	12.6	12.9	12.2	12.8	12.6	13.1	13.5
8H	11.9	12.4	12.3	12.7	13.1	12.4	13.0	12.8	13.3	13.7
12H	12.0	12.5	12.4	12.9	13.2	12.6	13.1	13.0	13.4	13.8
8H 4H	11.5	12.0	11.9	12.4	12.7	12.0	12.5	12.3	12.8	13.2
6H	12.0	12.4	12.4	12.8	13.2	12.4	12.9	12.9	13.3	13.7
8H	12.2	12.6	12.7	13.0	13.5	12.7	13.1	13.1	13.5	13.9
12H	12.5	12.8	13.0	13.3	13.7	12.9	13.3	13.4	13.7	14.2
12H 4H	11.5	12.0	11.9	12.3	12.7	11.9	12.4	12.4	12.8	13.2
6H	12.0	12.4	12.4	12.8	13.2	12.5	12.9	12.9	13.3	13.7
8H	12.3	12.6	12.8	13.1	13.5	12.8	13.1	13.2	13.5	14.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 2.9 / - 1.8				
1.5H	+ 0.2 / - 0.3					+ 4.9 / - 1.9				
2.0H	+ 0.2 / - 0.3					+ 1.4 / - 0.4				

CIE Pub.117 Corrected 4949 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.6)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

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:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 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	87	81	77	86	80	77	86	80	77	73
0.80	94	88	85	94	88	85	93	88	84	80
1.00	99	93	89	98	93	89	96	92	89	85
1.25	103	97	94	102	97	94	100	96	93	89
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

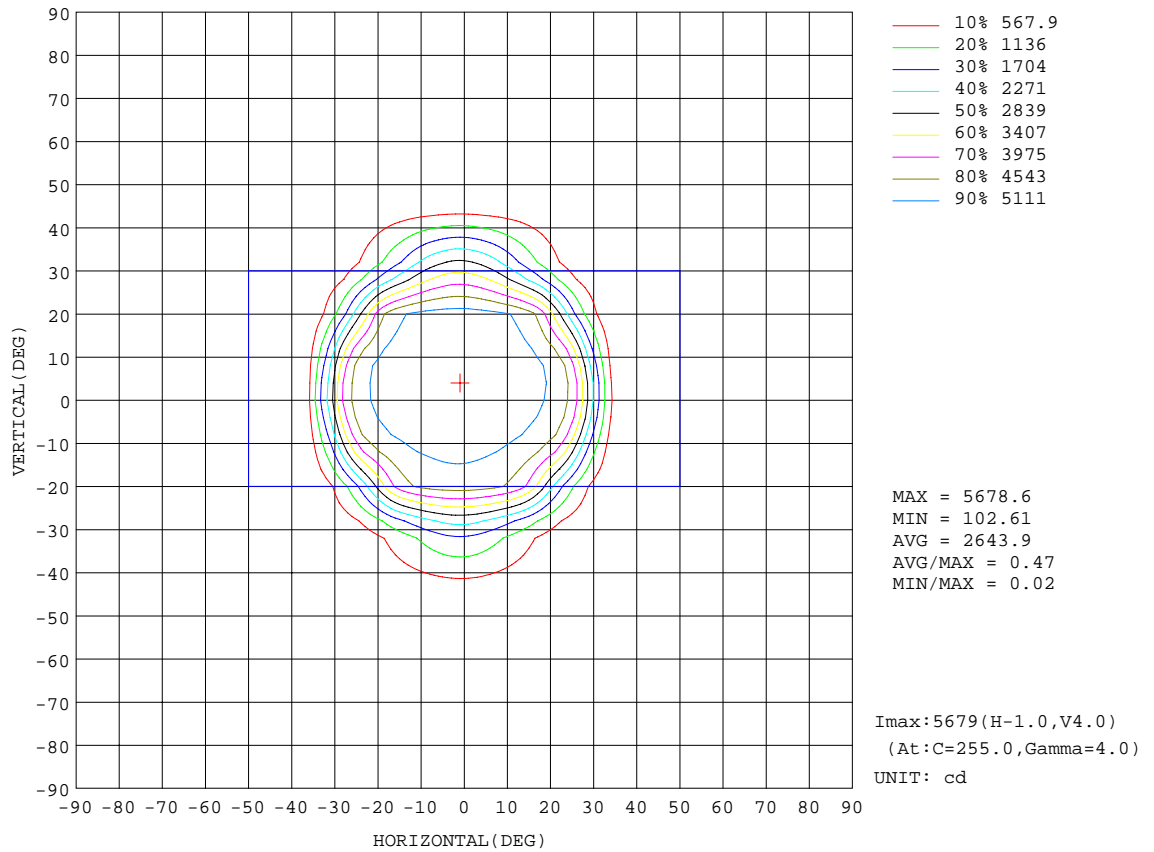
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

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:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

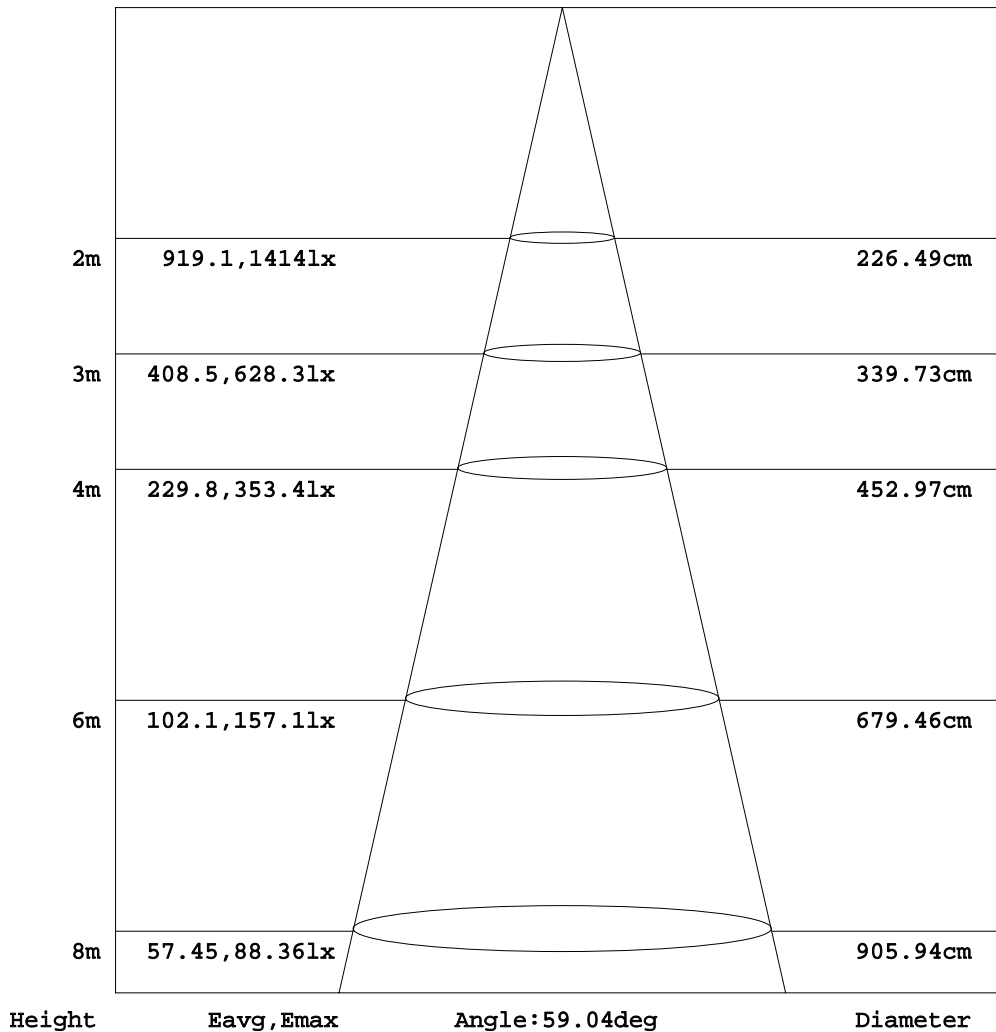
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.5V I:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 lm		

Flux out:3850 lm



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

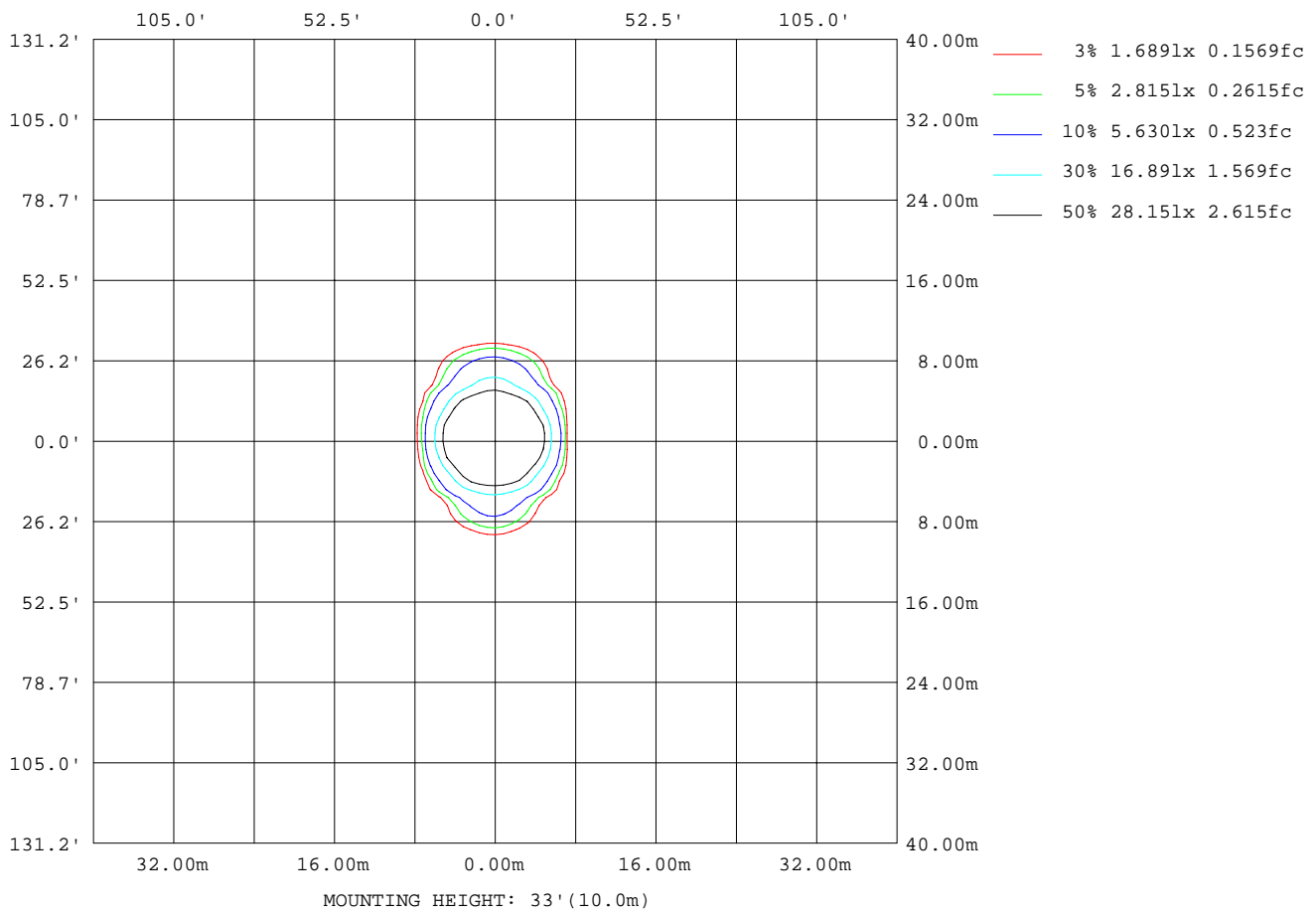
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-03

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:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-03

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:

LED Avg.L Report

Test:U:120.5V I:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 lm		

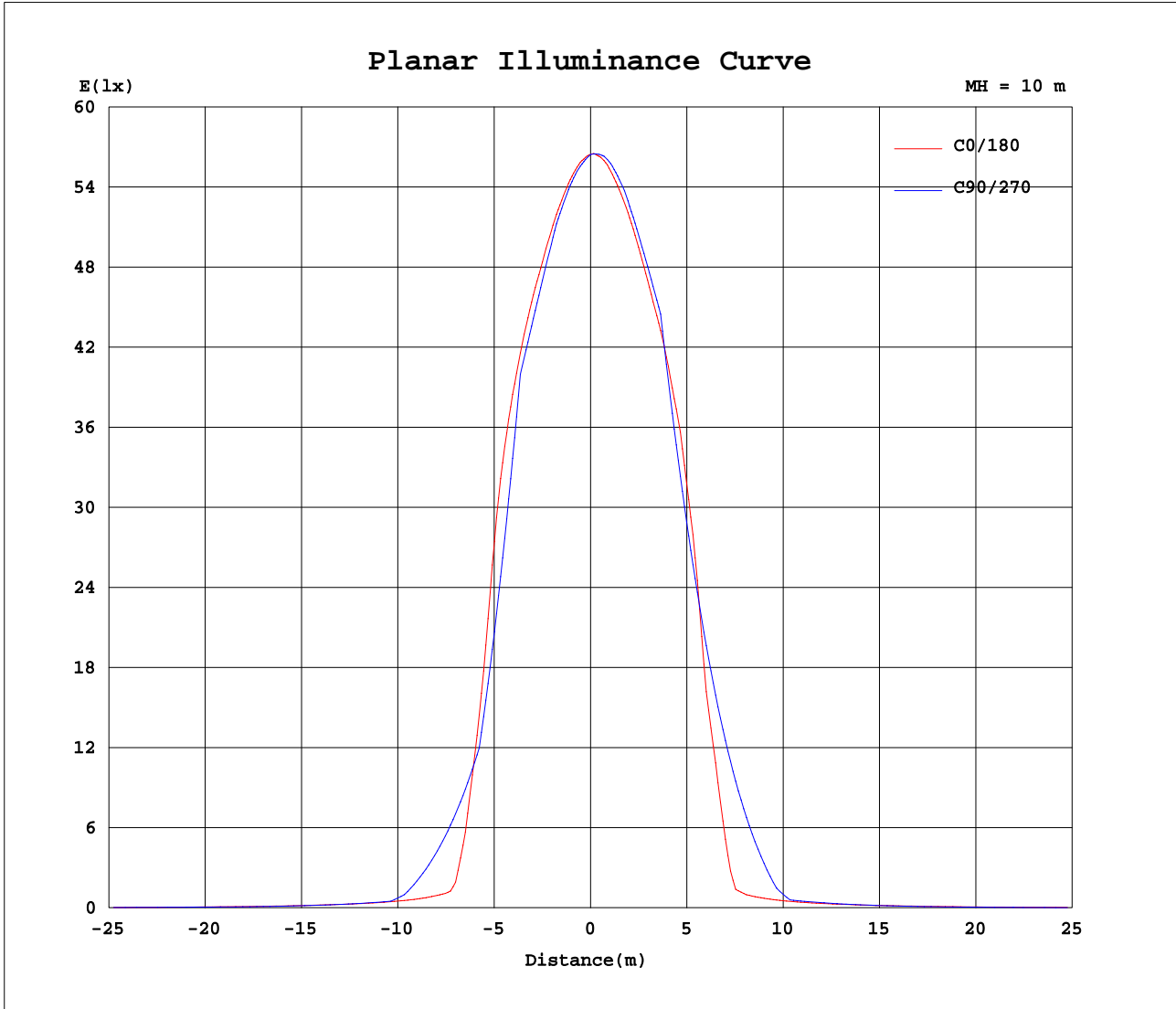
AvgL	cd/m2
L_0~180(65)av	1685
L_0~180(75)av	1283
L_0~180(85)av	775
L_90~270(65)av	1348
L_90~270(75)av	869
L_90~270(85)av	888
L_45(65)av	1612
L_45(75)av	1175
L_45(85)av	782

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-03

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: 2016-09-03

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:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 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	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644
5	5569	5560	5552	5544	5538	5533	5529	5526	5524	5522	5521	5521	5521	5521	5522	5524	5526	5528	5530
10	5441	5422	5405	5391	5380	5371	5361	5354	5345	5337	5333	5332	5333	5335	5339	5343	5348	5355	5366
15	5263	5237	5215	5198	5176	5158	5141	5126	5119	5088	5063	5051	5046	5047	5054	5062	5072	5082	5092
20	5010	4970	4942	4907	4868	4841	4794	4658	4587	4570	4588	4623	4661	4695	4729	4760	4785	4807	4819
25	4320	4228	4164	4061	3990	3861	3634	3464	3405	3487	3682	3718	3620	3503	3399	3336	3312	3316	3333
30	2226	2124	2073	1964	1906	1888	1840	1751	1708	1827	1900	1920	1868	1775	1707	1692	1731	1795	1847
35	350	378	413	439	517	551	514	576	653	665	607	469	573	719	863	998	1123	1227	1283
40	179	179	178	177	176	176	181	200	208	169	194	246	323	411	493	565	628	687	719
45	143	143	143	142	141	140	137	134	134	134	138	151	176	198	204	189	191	202	209
50	122	123	122	121	120	118	115	114	113	112	110	109	106	105	105	104	108	121	128
55	105	106	105	105	103	101	99.2	97.9	96.4	94.4	92.3	90.3	88.3	86.5	84.9	83.0	84.5	94.9	101
60	88.0	87.8	87.9	87.5	86.9	85.3	83.9	83.0	81.8	80.7	78.2	75.0	72.2	68.8	65.4	62.2	62.1	69.6	73.4
65	68.2	68.2	68.8	68.4	69.2	68.3	67.5	66.2	66.1	67.0	65.4	60.8	57.9	54.9	52.5	51.0	52.0	59.2	63.1
70	48.6	49.3	51.0	51.0	53.2	52.3	49.1	48.5	49.3	51.7	51.3	47.9	46.3	43.4	41.7	41.4	43.1	49.3	52.8
75	30.8	32.7	34.0	34.4	34.0	34.3	33.5	33.8	34.7	35.9	36.0	34.2	33.5	31.6	30.9	31.5	34.0	39.2	42.1
80	21.4	21.5	21.7	22.0	20.9	22.1	23.0	22.2	21.5	21.7	22.1	21.9	22.0	21.2	21.0	21.5	23.2	26.7	28.8
85	5.29	10.0	13.2	15.2	14.9	12.8	12.4	11.8	11.2	11.5	11.7	11.6	11.6	11.3	11.3	11.4	12.3	14.1	15.1
90	0.65	1.37	1.46	1.54	1.51	1.44	1.37	1.33	1.31	1.29	1.30	1.31	1.34	1.37	1.41	1.44	1.46	1.46	1.47

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 25DEG Operators: Test Date: 2016-09-03	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:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 lm		

Table--2

UNIT: cd

γ (DEG) \ C (DEG)	C (DEG)																		
	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644
5	5534	5539	5542	5545	5549	5553	5558	5562	5565	5570	5575	5580	5586	5594	5602	5611	5620	5630	5633
10	5370	5373	5376	5381	5387	5390	5394	5400	5409	5420	5432	5443	5457	5469	5481	5495	5511	5529	5535
15	5100	5106	5112	5118	5122	5132	5145	5167	5197	5229	5242	5258	5276	5294	5316	5335	5359	5386	5395
20	4830	4832	4830	4823	4812	4802	4792	4787	4790	4813	4874	4991	5040	5070	5107	5141	5173	5213	5223
25	3360	3396	3452	3541	3674	3847	4037	4111	3949	3857	3886	4048	4321	4509	4559	4624	4692	4788	4792
30	1864	1860	1852	1883	1974	2113	2246	2300	2273	2191	2220	2372	2535	2666	2747	2853	2953	3131	3132
35	1281	1223	1125	1008	876	738	631	793	870	875	821	784	857	894	865	858	876	936	968
40	718	685	637	579	506	420	326	243	191	258	259	211	195	204	192	194	194	197	198
45	207	201	203	228	233	214	179	151	141	140	140	143	145	147	149	151	150	151	152
50	122	109	106	107	108	109	113	115	116	117	118	120	123	124	126	127	127	127	128
55	96.0	85.7	84.6	86.9	88.9	90.9	93.0	95.1	97.1	99.4	101	103	106	107	109	109	109	110	110
60	70.4	63.1	63.8	67.4	71.1	74.7	77.7	80.5	83.1	85.0	86.4	87.8	89.3	91.3	91.9	92.3	92.6	92.9	93.1
65	59.5	52.5	52.2	54.2	56.8	60.0	63.2	67.0	70.4	71.9	71.2	71.6	72.4	73.5	73.9	73.9	73.9	74.2	74.7
70	49.1	43.1	42.1	43.1	44.8	46.8	49.4	52.7	56.4	57.1	54.1	53.2	55.1	58.0	56.0	55.3	54.3	54.3	55.0
75	38.5	33.6	31.7	31.8	32.6	33.3	35.0	37.2	39.2	39.3	37.6	36.4	37.8	39.3	38.6	38.6	36.2	35.6	36.5
80	26.3	22.9	21.5	21.5	22.0	21.8	22.3	22.7	22.8	23.4	24.0	24.8	25.2	24.0	24.1	23.1	22.0	21.1	21.6
85	13.9	12.2	11.5	11.5	11.8	11.6	11.9	12.0	12.1	12.1	12.5	13.3	14.6	17.2	18.2	17.0	13.5	8.23	13.2
90	1.47	1.51	1.52	1.51	1.48	1.44	1.41	1.38	1.39	1.41	1.41	1.42	1.43	1.47	1.49	1.40	1.31	0.45	0.38

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: 2016-09-03 Remarks:



EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 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	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644
5	5636	5639	5643	5647	5652	5657	5661	5665	5669	5672	5674	5676	5676	5676	5676	5673	5670	5667	5663
10	5543	5552	5564	5574	5580	5587	5592	5599	5605	5611	5616	5623	5628	5631	5632	5631	5625	5616	5609
15	5408	5424	5435	5446	5455	5463	5473	5474	5475	5478	5484	5491	5496	5501	5501	5500	5493	5484	5469
20	5241	5255	5266	5277	5277	5245	5243	5254	5278	5299	5319	5335	5351	5364	5368	5368	5361	5350	5327
25	4817	4842	4873	4768	4631	4633	4721	4829	4949	4800	4610	4482	4412	4378	4372	4367	4346	4308	4267
30	3215	3288	3308	3200	3110	3110	3242	3317	3274	3138	3026	3013	3082	3183	3276	3343	3330	3233	3090
35	1047	1154	1215	1247	1240	1314	1442	1479	1428	1318	1519	1735	1958	2126	2228	2291	2282	2203	2078
40	201	212	219	254	331	415	407	378	537	700	853	986	1093	1176	1217	1243	1234	1187	1127
45	154	155	156	157	158	157	160	191	255	334	386	398	367	308	292	291	286	272	272
50	129	129	129	129	129	129	129	130	138	139	125	123	124	122	128	144	149	133	121
55	110	111	111	111	109	109	107	105	103	101	100	98.6	97.1	94.8	97.3	109	112	101	92.6
60	93.5	93.9	94.3	93.0	92.4	91.4	89.2	86.7	84.2	81.8	79.1	75.6	71.7	67.7	67.7	74.4	76.0	69.9	64.9
65	75.3	75.9	75.5	75.5	75.0	73.3	71.4	69.1	66.4	63.0	58.0	53.3	49.2	45.5	44.8	49.5	50.8	46.4	43.3
70	56.2	56.5	58.6	56.3	55.1	54.3	53.3	48.6	43.9	39.0	34.4	30.3	26.8	24.0	22.9	25.0	25.6	23.4	22.3
75	37.8	37.8	38.8	38.0	35.7	32.6	29.3	24.6	19.7	14.9	10.6	7.08	4.53	3.49	2.93	2.89	2.85	2.71	2.85
80	22.1	22.6	21.7	20.1	16.1	11.5	7.14	3.98	2.92	1.87	1.13	0.68	0.42	0.34	0.34	0.34	0.34	0.33	0.33
85	14.2	10.6	8.30	6.57	5.06	3.87	2.94	2.23	1.70	1.15	0.77	0.53	0.40	0.35	0.35	0.35	0.35	0.35	0.35
90	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36

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:2016-09-03	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.3370A P:40.21W PF:0.9905 Lamp Flux:4949.13x1 lm

Table--4

UNIT: cd

γ (DEG) \ C (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644	5644				
5	5659	5653	5649	5645	5641	5634	5625	5617	5609	5601	5594	5588	5582	5577	5572				
10	5598	5585	5573	5562	5552	5544	5537	5529	5519	5506	5495	5481	5467	5456	5447				
15	5454	5438	5424	5411	5399	5390	5385	5378	5360	5349	5339	5326	5313	5292	5275				
20	5302	5277	5248	5217	5179	5138	5099	5079	5083	5126	5119	5100	5084	5060	5029				
25	4242	4247	4305	4422	4581	4671	4484	4295	4207	4251	4402	4478	4434	4405	4352				
30	2932	2791	2725	2736	2811	2837	2775	2655	2521	2482	2468	2429	2374	2354	2275				
35	1907	1699	1465	1224	1021	1106	1117	1047	942	822	767	672	541	449	388				
40	1045	944	815	672	517	365	250	286	270	221	190	184	182	181	180				
45	282	325	335	308	248	186	153	147	145	147	147	146	144	144	144				
50	119	119	119	120	127	124	123	122	122	123	123	124	123	122	123				
55	93.1	94.6	96.0	97.4	99.0	101	102	104	104	105	106	106	107	106	106				
60	67.6	71.2	74.7	77.7	80.2	82.2	84.1	86.1	87.9	88.3	88.7	89.6	89.1	88.7	88.3				
65	45.6	49.0	53.1	57.3	61.6	64.3	66.0	67.1	68.5	70.6	70.8	70.4	70.1	69.8	68.7				
70	24.1	26.8	30.2	33.9	37.9	41.8	45.3	47.7	48.5	49.7	51.6	52.6	50.5	50.4	49.3				
75	3.50	4.58	7.02	10.3	14.1	18.2	21.9	25.3	28.1	30.3	33.1	32.7	33.5	32.5	31.6				
80	0.35	0.47	0.66	0.99	1.44	1.94	2.46	5.09	8.78	12.9	15.9	17.3	19.7	20.5	21.0				
85	0.36	0.42	0.53	0.70	0.94	1.18	1.46	1.94	2.58	3.42	4.01	4.45	6.65	8.60	7.79				
90	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.39	0.39	0.40	0.40	0.40	0.40				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-03

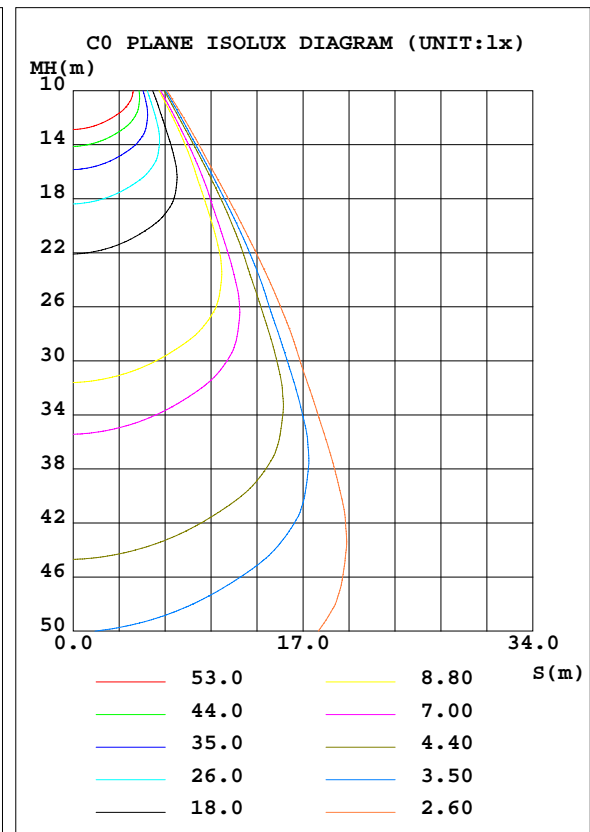
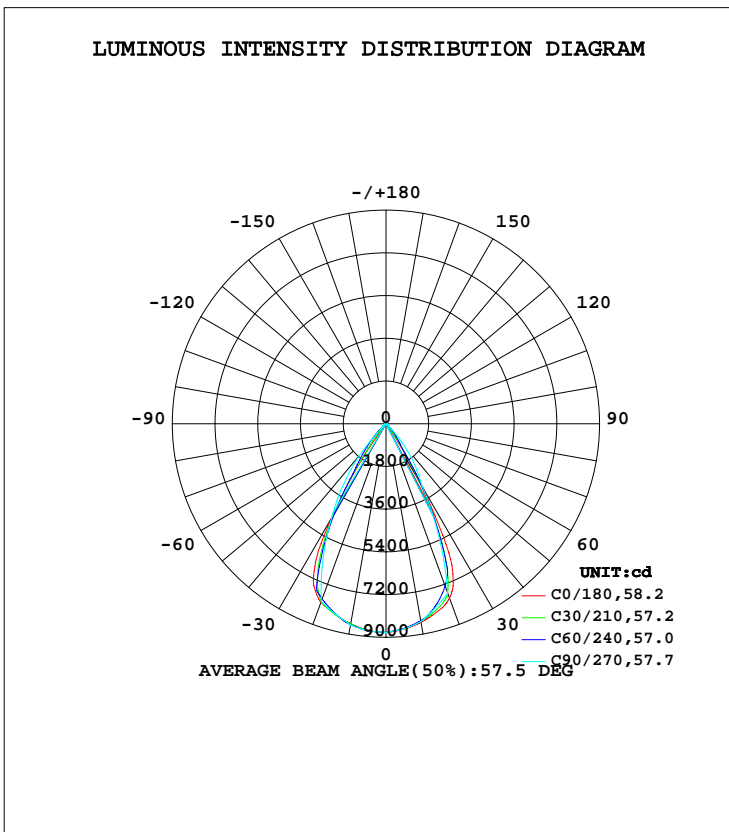
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.7V I:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 lm		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 126.06 lm/W			
MODEL		I _{max} (cd)	8791	S/MH(C0/180)	0.86
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	0.92
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	7502.0	η UP, DN(C0-180)	0.0,47.4
NOMINAL FLUX(lm)	7501.95	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,52.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.80



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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	8688	8655	8673	8691	8732	8746	8751	8712	0- 5	208.9	208.9	2.79,2.79
10	8499	8429	8463	8475	8557	8579	8608	8539	5- 10	615.8	824.7	11.11
15	8225	8059	8033	8138	8305	8306	8290	8237	10- 15	991.1	1816	24.2,24.2
20	7814	7112	7603	7365	8009	7777	7972	7542	15- 20	1312	3127	41.7,41.7
25	6576	5417	5319	5998	7256	6758	6277	6213	20- 25	1480	4607	61.4,61.4
30	3098	2907	3035	3677	4553	4523	4582	3810	25- 30	1260	5867	78.2,78.2
35	377.6	1083	2097	1536	1248	2046	3138	1551	30- 35	735.3	6602	88,88
40	247.4	269.4	1158	396.4	284.0	557.6	1694	388.9	35- 40	344.5	6947	92.6,92.6
45	201.1	196.4	310.4	230.3	222.1	284.7	389.9	226.6	40- 45	171.4	7118	94.9,94.9
50	171.6	162.0	183.7	173.6	186.3	191.2	206.4	176.4	45- 50	86.09	7204	96,96
55	147.3	135.3	147.3	144.0	160.4	155.3	163.0	148.4	50- 55	69.70	7274	97,97
60	120.4	111.1	110.8	121.4	134.9	130.9	119.6	124.5	55- 60	61.22	7335	97.8,97.8
65	90.90	87.62	93.55	98.95	104.6	107.8	93.86	100.7	60- 65	51.87	7387	98.5,98.5
70	63.61	67.00	76.30	76.96	76.58	82.26	68.12	75.49	65- 70	42.24	7430	99,99
75	40.44	48.54	58.98	56.27	51.46	53.85	43.57	48.97	70- 75	31.81	7461	99.5,99.5
80	35.73	31.09	41.02	36.65	34.81	28.30	28.44	24.90	75- 80	21.56	7483	99.7,99.7
85	12.61	17.74	22.98	21.06	19.43	14.56	14.49	12.74	80- 85	13.66	7497	99.9,99.9
90	1.034	4.300	4.936	5.602	0.7633	0.5580	0.5468	0.5766	85- 90	5.432	7502	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): 7118.4 lm

%lum = 94.9%
%lamp = 94.9%

Conical surface Flux(120deg): 7335.4 lm

%lum = 97.8%
%lamp = 97.8%

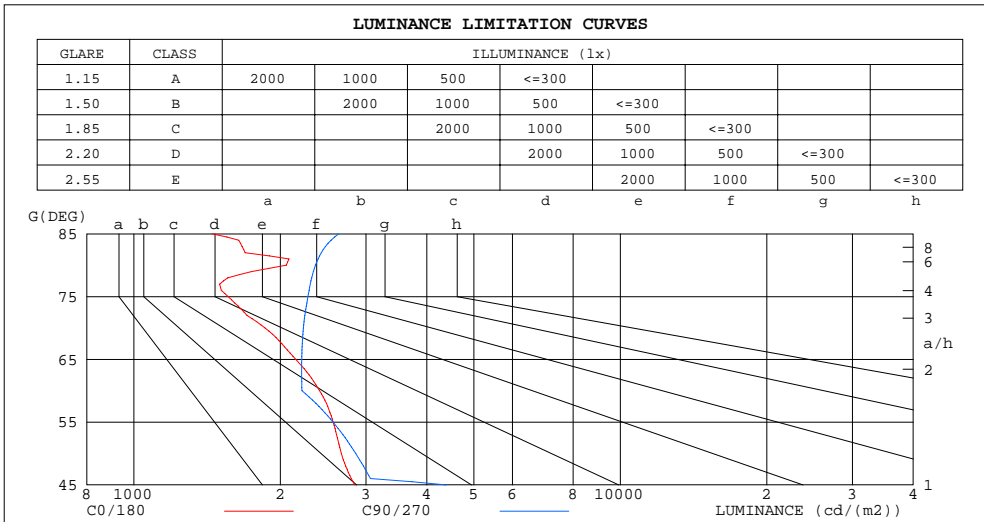
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-09-05

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:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1447	2636
80	2058	2362
75	1562	2279
70	1860	2231
65	2151	2213
60	2408	2216
55	2567	2567
50	2669	2858
45	2844	4389

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-05

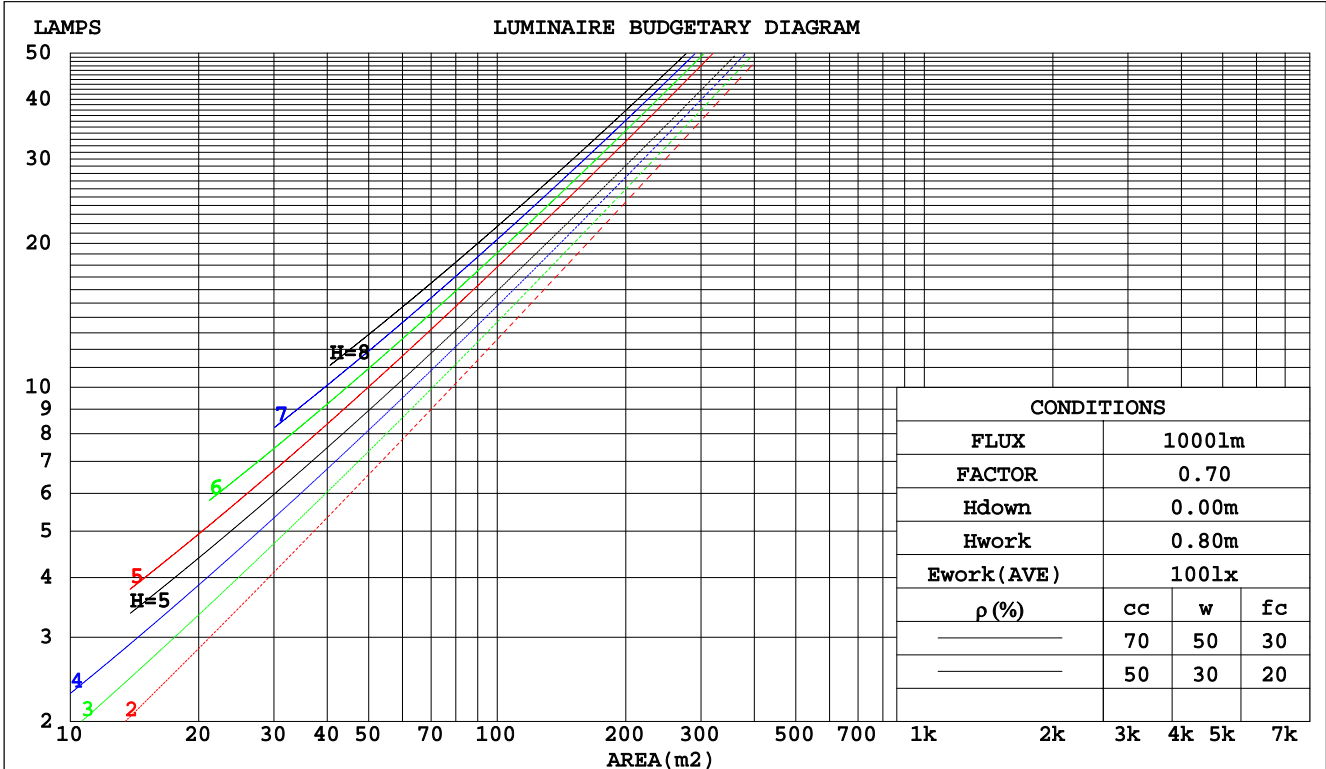
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity: 65.0%
 Test Distance: 7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.7V I:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 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																
ρfc	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	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.96	1.01	.98	.94	.98	.95	.92	.95	.93	.90	.92	.90	.89	.87
3.0	.96	.91	.87	.95	.90	.87	.92	.88	.85	.90	.87	.84	.88	.85	.83	.81
4.0	.90	.85	.81	.89	.84	.80	.87	.83	.79	.85	.81	.78	.83	.80	.77	.76
5.0	.85	.79	.75	.84	.78	.74	.82	.77	.74	.80	.76	.73	.79	.75	.72	.71
6.0	.80	.74	.70	.79	.73	.69	.77	.73	.69	.76	.72	.69	.75	.71	.68	.67
7.0	.75	.69	.65	.75	.69	.65	.73	.68	.65	.72	.68	.64	.71	.67	.64	.63
8.0	.71	.65	.61	.71	.65	.61	.69	.64	.61	.68	.64	.61	.68	.63	.60	.59
9.0	.67	.62	.58	.67	.61	.58	.66	.61	.57	.65	.61	.57	.64	.60	.57	.56
10.0	.64	.58	.55	.64	.58	.55	.63	.58	.54	.62	.57	.54	.61	.57	.54	.53



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-05

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:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 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	.181	.103	.033	.174	.099	.032	.162	.093	.030	.150	.087	.028	.139	.081	.026	
2.0	.171	.094	.029	.166	.091	.028	.155	.086	.027	.145	.082	.026	.136	.077	.024	
3.0	.162	.086	.026	.157	.084	.025	.148	.080	.024	.140	.077	.024	.132	.073	.023	
4.0	.154	.080	.023	.149	.078	.023	.142	.075	.022	.134	.072	.022	.128	.069	.021	
5.0	.146	.074	.022	.142	.073	.021	.135	.071	.021	.129	.068	.020	.123	.066	.020	
6.0	.139	.070	.020	.136	.068	.020	.130	.066	.019	.124	.064	.019	.119	.063	.019	
7.0	.132	.065	.019	.130	.065	.018	.124	.063	.018	.119	.061	.018	.115	.060	.018	
8.0	.126	.062	.017	.124	.061	.017	.119	.060	.017	.115	.058	.017	.111	.057	.017	
9.0	.121	.059	.016	.119	.058	.016	.115	.057	.016	.111	.055	.016	.107	.054	.016	
10.0	.116	.056	.015	.114	.055	.015	.110	.054	.015	.107	.053	.015	.103	.052	.015	

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																
1.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.090	.123	.098	.078	.085	.068	.054	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.073	.114	.085	.063	.079	.060	.044	.045	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.107	.075	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.100	.067	.043	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.066	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.105	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.099	.059	.031	.086	.051	.027	.059	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.095	.054	.028	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 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	10.5	11.5	10.7	11.6	11.8	12.9	13.9	13.1	14.0	14.2
3H	11.2	12.1	11.5	12.3	12.5	13.2	14.0	13.4	14.2	14.4
4H	11.5	12.3	11.8	12.5	12.7	13.4	14.2	13.7	14.4	14.6
6H	11.7	12.5	12.0	12.7	13.0	13.6	14.4	13.9	14.6	14.9
8H	11.9	12.6	12.2	12.9	13.1	13.7	14.4	14.0	14.7	15.0
12H	11.9	12.6	12.3	12.9	13.2	13.8	14.5	14.1	14.8	15.1
4H 2H	10.7	11.5	11.0	11.7	12.0	12.9	13.7	13.2	13.9	14.1
3H	11.6	12.3	11.9	12.6	12.9	13.3	14.0	13.6	14.3	14.6
4H	12.0	12.6	12.4	12.9	13.3	13.6	14.2	13.9	14.5	14.9
6H	12.4	12.9	12.8	13.3	13.6	13.9	14.5	14.3	14.8	15.2
8H	12.6	13.1	13.0	13.5	13.9	14.1	14.6	14.5	15.0	15.4
12H	12.8	13.2	13.2	13.6	14.0	14.3	14.7	14.7	15.1	15.5
8H 4H	12.2	12.7	12.5	13.0	13.4	13.7	14.2	14.0	14.5	14.9
6H	12.7	13.1	13.1	13.5	13.9	14.1	14.5	14.5	14.9	15.4
8H	13.0	13.4	13.4	13.8	14.2	14.4	14.7	14.8	15.2	15.6
12H	13.2	13.6	13.7	14.0	14.5	14.6	14.9	15.1	15.4	15.8
12H 4H	12.2	12.6	12.6	13.0	13.4	13.6	14.1	14.0	14.5	14.9
6H	12.7	13.1	13.2	13.5	14.0	14.1	14.5	14.6	14.9	15.4
8H	13.1	13.4	13.5	13.8	14.3	14.4	14.7	14.9	15.2	15.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 3.0 / - 2.1				
1.5H	+ 0.1 / - 0.2					+ 5.1 / - 2.2				
2.0H	+ 0.2 / - 0.4					+ 1.4 / - 0.4				

CIE Pub.117 Corrected 7502 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.0)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 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	87	81	77	86	80	77	86	80	77	73
0.80	94	88	85	94	88	85	92	87	84	80
1.00	99	93	89	98	93	89	96	92	89	85
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	101	97	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	107	104	106	104	102	95
4.00	114	111	108	112	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

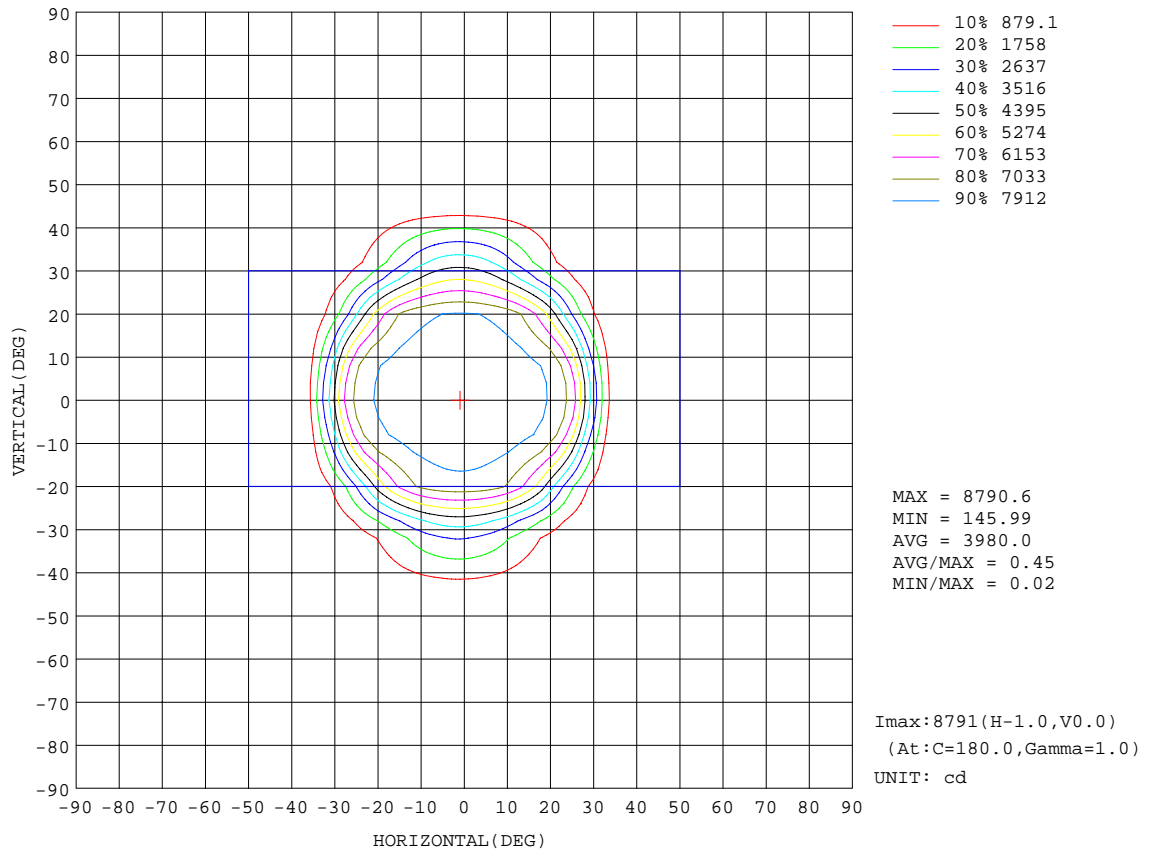
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

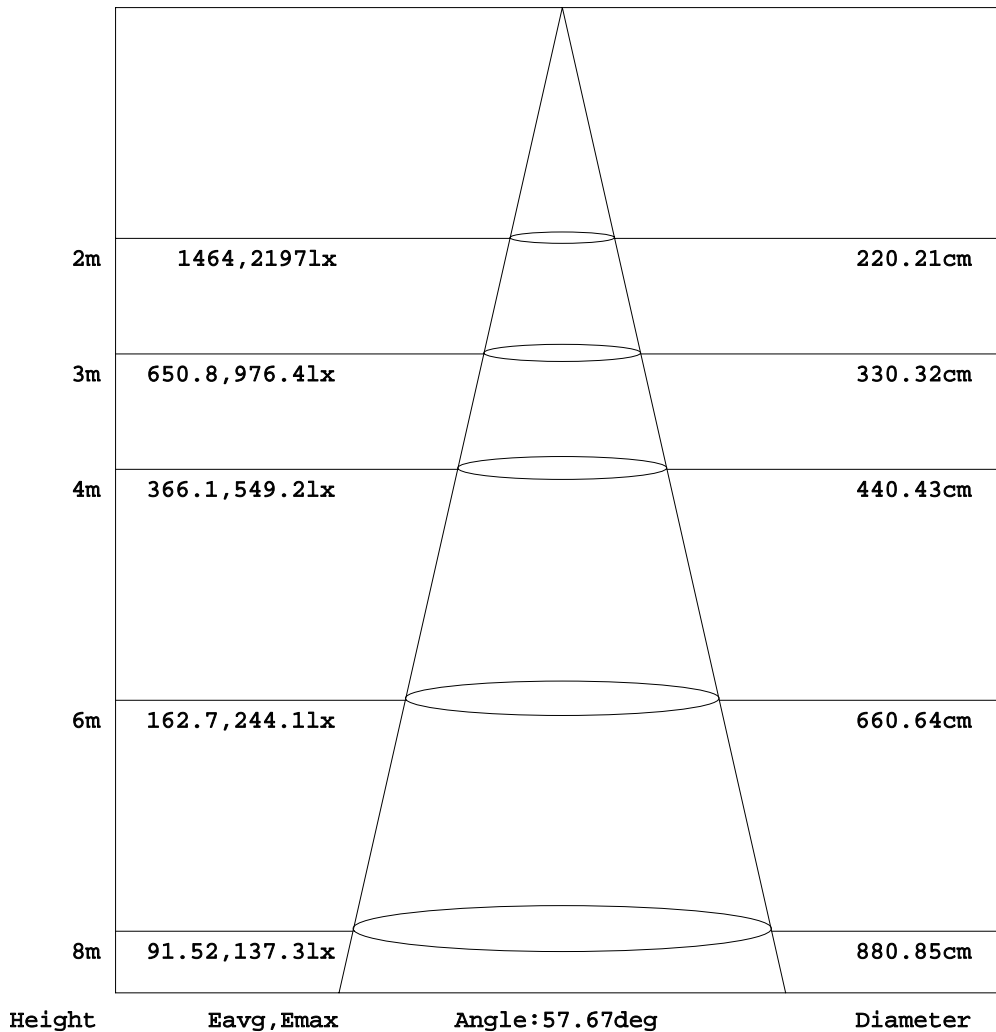
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.7V I:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 lm		

Flux out:5654 lm



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

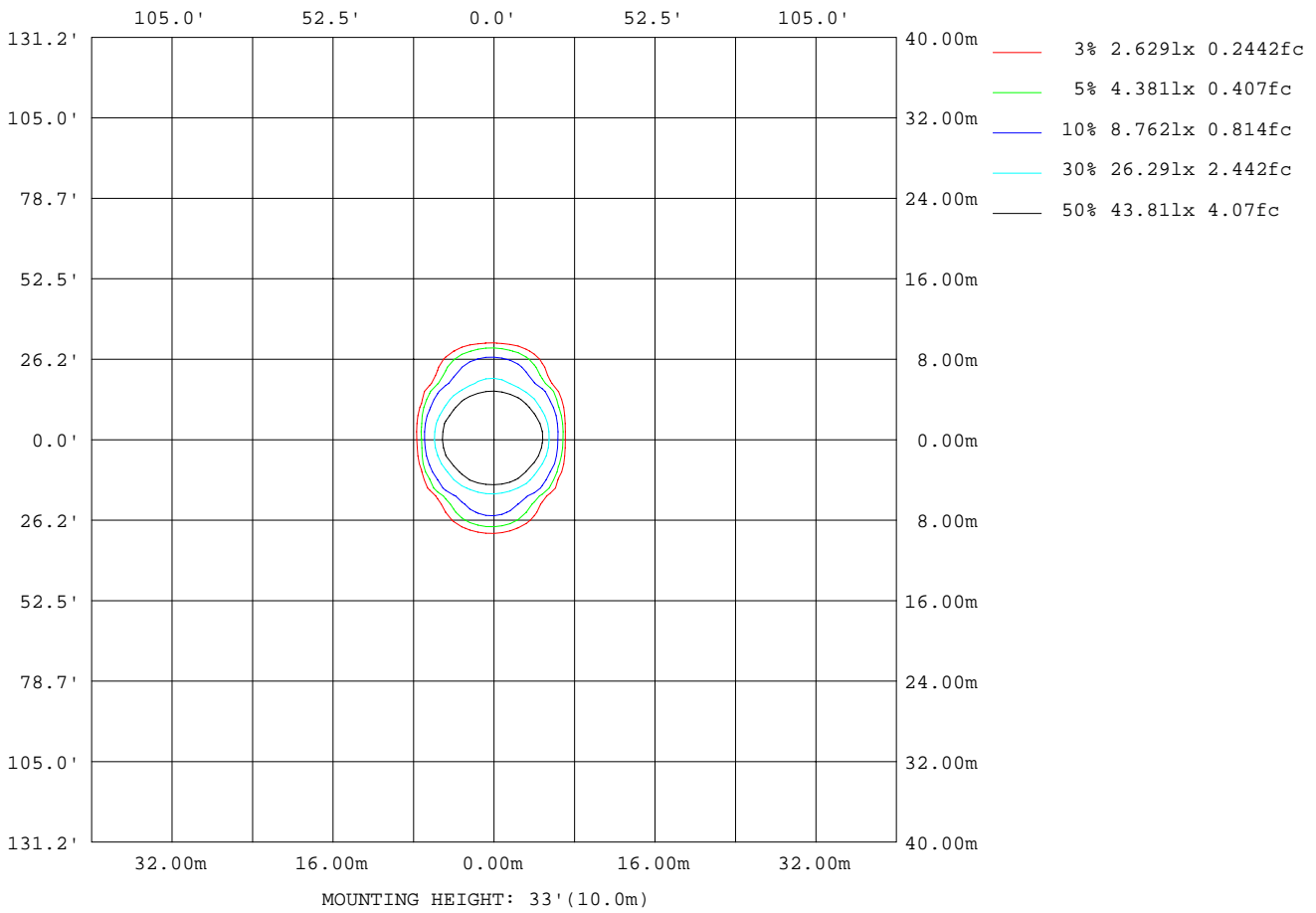
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 lm		

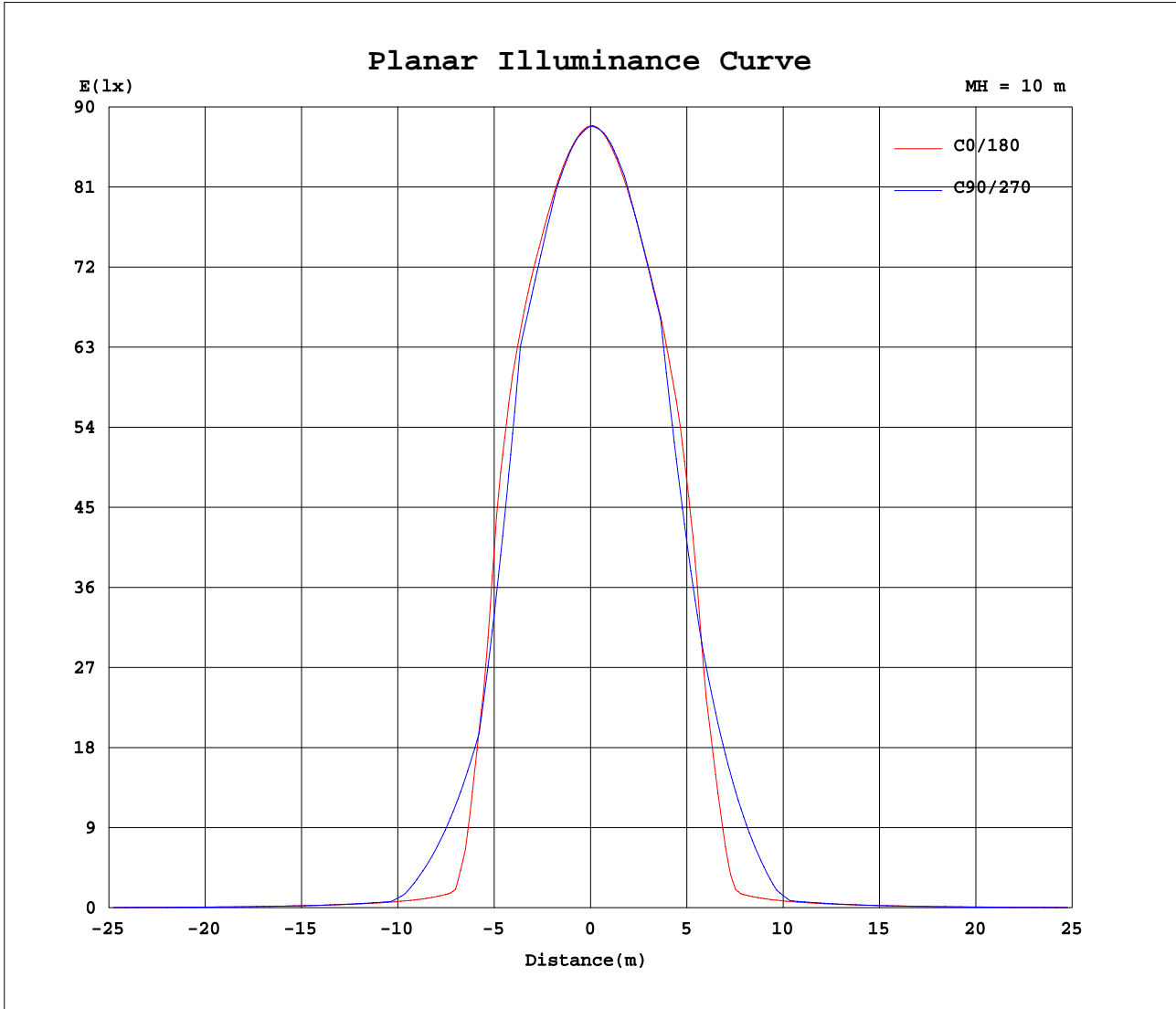
AvgL	cd/m2
L_0~180(65)av	2313
L_0~180(75)av	1775
L_0~180(85)av	1838
L_90~270(65)av	2217
L_90~270(75)av	1981
L_90~270(85)av	2150
L_45(65)av	2337
L_45(75)av	2006
L_45(85)av	1896

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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: 2016-09-05

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:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 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	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787
5	8675	8678	8680	8682	8684	8686	8690	8691	8691	8692	8693	8695	8699	8703	8709	8715	8723	8732	8730
10	8466	8469	8469	8469	8467	8466	8467	8469	8475	8482	8490	8496	8504	8510	8517	8527	8540	8557	8554
15	8039	8043	8044	8045	8046	8053	8068	8094	8138	8189	8194	8204	8220	8236	8253	8263	8281	8305	8300
20	7609	7603	7587	7555	7514	7467	7408	7363	7365	7426	7558	7773	7835	7862	7901	7936	7965	8009	8001
25	5361	5421	5506	5628	5773	5921	6079	6144	5998	5981	6081	6304	6659	6883	6953	7066	7146	7256	7224
30	3081	3106	3136	3188	3267	3378	3509	3636	3677	3566	3581	3737	3926	4092	4177	4272	4355	4553	4502
35	2111	2060	1966	1806	1599	1358	1184	1424	1536	1507	1365	1288	1389	1384	1310	1235	1192	1248	1258
40	1169	1148	1108	1030	912	775	645	518	396	441	445	367	308	288	279	280	281	284	285
45	313	314	328	380	397	383	342	284	230	211	208	212	215	217	218	220	220	222	222
50	177	161	156	159	160	164	177	178	174	174	176	178	181	183	184	185	185	186	187
55	142	128	125	129	132	135	138	141	144	147	150	153	155	157	158	159	159	160	161
60	107	95.7	94.9	99.9	106	111	115	119	121	124	127	129	131	133	133	133	134	135	136
65	89.3	80.0	78.6	81.7	85.0	89.5	93.5	97.1	99.0	101	103	105	107	107	105	104	104	105	106
70	72.7	66.1	65.1	67.2	67.9	73.3	74.3	76.1	77.0	78.3	79.5	79.6	82.8	84.9	80.4	78.5	76.2	76.6	77.8
75	56.1	52.2	51.6	52.0	50.2	56.9	54.2	55.2	56.3	57.6	57.4	55.9	56.4	57.8	57.1	56.1	52.6	51.5	53.9
80	39.1	36.6	36.5	36.5	34.9	39.6	36.2	36.3	36.6	37.7	38.2	37.9	37.3	36.8	36.7	35.6	35.4	34.8	36.2
85	22.0	20.9	21.0	21.3	20.5	22.7	21.0	20.9	21.1	21.4	21.5	21.3	22.3	27.6	27.5	25.9	15.9	19.4	23.9
90	4.98	5.18	5.42	6.18	6.16	6.13	5.74	5.63	5.60	5.57	5.56	5.43	5.33	5.68	5.66	5.39	4.92	0.76	0.60

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:2016-09-05 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 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	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787
5	8729	8729	8730	8732	8734	8738	8742	8746	8751	8754	8754	8755	8755	8755	8754	8752	8751	8747	8744
10	8553	8556	8562	8568	8570	8576	8577	8579	8581	8587	8594	8601	8607	8611	8613	8612	8608	8601	8592
15	8302	8311	8312	8314	8314	8318	8326	8306	8288	8279	8277	8280	8287	8293	8296	8295	8290	8279	8265
20	8005	8004	7997	7996	7967	7839	7781	7777	7797	7827	7860	7893	7924	7952	7968	7975	7972	7954	7925
25	7227	7223	7229	7054	6791	6655	6647	6758	6949	6852	6657	6503	6410	6360	6333	6307	6277	6243	6211
30	4576	4642	4673	4536	4400	4365	4494	4523	4447	4359	4297	4310	4377	4485	4578	4612	4582	4491	4351
35	1386	1554	1656	1695	1692	1828	2006	2046	1966	1830	2128	2469	2769	2980	3108	3159	3138	3061	2919
40	289	291	307	353	455	584	586	558	750	965	1191	1389	1554	1653	1701	1714	1694	1651	1585
45	227	227	229	230	230	229	236	285	376	468	538	561	523	436	411	400	390	379	384
50	190	190	191	191	190	189	189	191	205	203	182	179	179	177	184	202	206	189	175
55	163	164	164	164	162	160	158	155	153	151	149	147	145	142	145	159	163	150	139
60	137	138	140	138	137	135	133	131	128	125	121	117	112	107	107	117	120	111	103
65	108	110	112	112	113	111	109	108	105	100	94.9	89.8	85.8	82.9	83.7	92.0	93.9	87.0	80.8
70	80.8	84.1	87.4	87.5	89.7	89.2	85.5	82.3	77.8	72.8	68.1	64.1	61.6	60.9	61.7	66.9	68.1	63.6	59.6
75	58.9	62.4	62.6	63.8	66.3	63.5	58.2	53.9	49.4	45.1	41.0	37.8	36.9	39.2	40.6	42.8	43.6	41.4	39.1
80	37.2	39.1	39.5	39.4	38.8	35.7	31.8	28.3	26.0	24.7	23.5	22.6	22.9	25.3	26.5	27.9	28.4	27.1	25.6
85	27.4	24.5	21.8	19.3	17.7	16.7	15.7	14.6	13.3	12.7	12.0	11.6	11.6	12.9	13.5	14.2	14.5	13.8	13.0
90	0.82	0.69	0.59	0.58	0.58	0.57	0.57	0.56	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55

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:2016-09-05	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.7V I:0.4958A P:59.51W PF:0.9946 Lamp Flux:7501.95x1 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	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787	8787				
5	8740	8735	8732	8727	8724	8719	8712	8707	8701	8697	8693	8690	8688	8687	8687				
10	8582	8572	8563	8555	8547	8541	8539	8537	8535	8528	8524	8515	8506	8500	8498				
15	8250	8236	8223	8214	8211	8218	8237	8261	8249	8244	8246	8244	8243	8230	8224				
20	7887	7840	7785	7723	7654	7585	7542	7555	7643	7811	7841	7836	7842	7836	7815				
25	6189	6196	6246	6334	6426	6421	6213	6120	6122	6231	6435	6542	6555	6589	6561				
30	4164	3990	3871	3823	3832	3866	3810	3618	3478	3432	3355	3267	3193	3187	3116				
35	2697	2403	2055	1703	1403	1530	1551	1438	1251	1087	998	843	650	506	426				
40	1481	1329	1141	927	725	542	389	408	372	296	264	257	254	252	249				
45	400	459	468	430	361	283	227	210	207	209	209	208	205	204	202				
50	172	172	171	172	184	181	176	176	176	176	176	177	176	174	173				
55	138	140	141	142	144	146	148	150	150	151	151	151	152	150	149				
60	105	109	113	117	120	123	124	126	128	128	127	127	125	124	122				
65	81.5	83.9	87.5	91.6	96.8	99.8	101	102	105	104	102	100	97.3	95.1	92.3				
70	59.7	59.6	62.0	65.4	69.7	73.0	75.5	79.9	81.3	78.3	77.0	77.2	72.7	69.4	65.4				
75	37.9	35.0	36.2	38.9	42.4	45.7	49.0	53.3	54.9	52.6	51.1	51.6	49.6	47.1	42.9				
80	24.3	21.7	21.5	22.0	22.8	23.6	24.9	27.2	29.2	30.3	31.0	31.1	33.1	33.1	34.4				
85	12.4	11.0	11.0	11.3	11.7	12.1	12.7	13.3	13.5	14.0	15.1	17.2	20.0	18.3	14.4				
90	0.55	0.55	0.55	0.55	0.56	0.57	0.58	0.58	0.59	0.60	0.61	0.63	0.63	0.63	0.63				

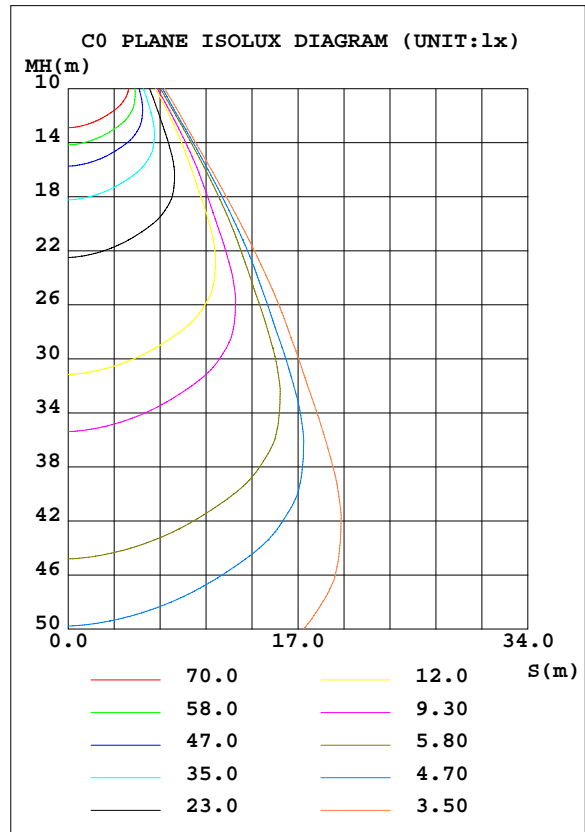
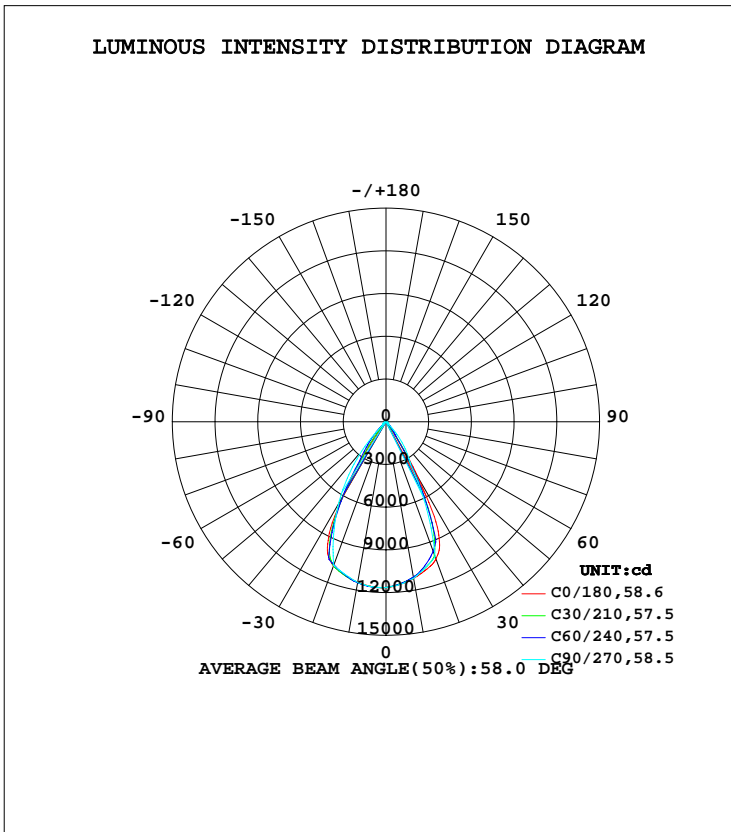
C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
Temperature:25DEG	Humidity:65.0%
Operators:	Test Distance:7.850m [K=1.0000]
Test Date:2016-09-05	Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 lm		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 127.09 lm/W			
MODEL		I _{max} (cd)	11660	S/MH(C0/180)	0.86
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	0.95
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	10059	η UP, DN(C0-180)	0.0,46.1
NOMINAL FLUX(lm)	10059.2	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,53.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	0.80



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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	1147	1142	1146	1153	1162	1164	1162	1154	0- 5	276.9	276.9	2.75,2.75
10	1117	1106	1116	1125	1144	1147	1146	1128	5- 10	816.0	1093	10.9,10.9
15	1078	1055	1063	1084	1114	1118	1110	1090	10- 15	1315	2408	23.9,23.9
20	1026	940.3	1010	987.4	1078	1064	1074	1025	15- 20	1748	4156	41.3,41.3
25	877.9	700.1	678.4	779.1	974.4	965.0	870.8	898.3	20- 25	1992	6147	61.1,61.1
30	445.3	363.2	346.6	435.8	589.5	655.3	667.8	567.2	25- 30	1709	7856	78.1,78.1
35	81.19	131.9	241.2	165.7	154.2	288.0	458.0	230.0	30- 35	988.1	8844	87.9,87.9
40	36.45	34.00	135.8	38.11	39.31	75.19	248.3	53.84	35- 40	456.5	9300	92.5,92.5
45	29.47	27.26	40.42	28.48	31.16	38.82	58.71	32.25	40- 45	230.1	9531	94.7,94.7
50	25.18	22.71	25.13	23.59	26.36	26.89	30.86	25.44	45- 50	120.1	9651	95.9,95.9
55	21.64	18.99	19.86	19.74	22.76	21.91	23.22	21.31	50- 55	98.04	9749	96.9,96.9
60	17.85	15.68	14.58	16.45	19.00	17.90	15.59	17.43	55- 60	85.00	9834	97.8,97.8
65	13.73	12.31	12.61	13.16	14.64	13.97	12.14	13.60	60- 65	70.71	9904	98.5,98.5
70	9.868	9.253	10.64	10.03	10.62	10.21	8.696	9.924	65- 70	56.84	9961	99,99
75	6.620	6.817	8.615	7.245	7.196	6.675	5.424	6.419	70- 75	42.61	10004	99.5,99.5
80	4.755	4.570	6.173	4.715	4.960	3.463	3.528	3.198	75- 80	29.08	10033	99.7,99.7
85	1.802	2.651	3.678	2.789	2.269	1.775	1.805	1.636	80- 85	18.62	10052	99.9,99.9
90	0.1417	0.7506	1.182	0.8746	0.1040	0.0833	0.0818	0.0826	85- 90	7.601	10059	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): 9530.6 lm

%lum = 94.7%
%lamp = 94.7%

Conical surface Flux(120deg): 9833.7 lm

%lum = 97.8%
%lamp = 97.8%

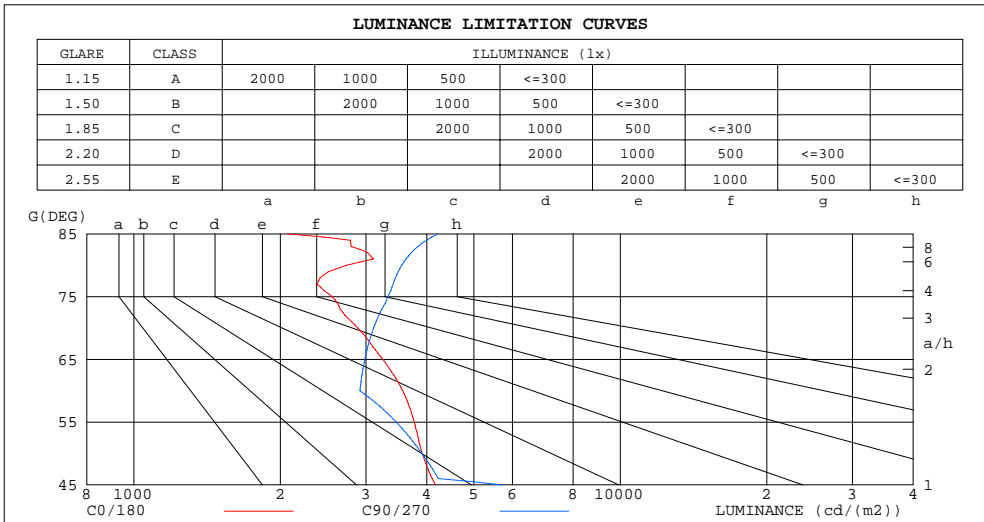
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2016-09-05

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:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2068	4220
80	2739	3555
75	2558	3329
70	2885	3110
65	3248	2983
60	3569	2915
55	3772	3462
50	3918	3910
45	4168	5717

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

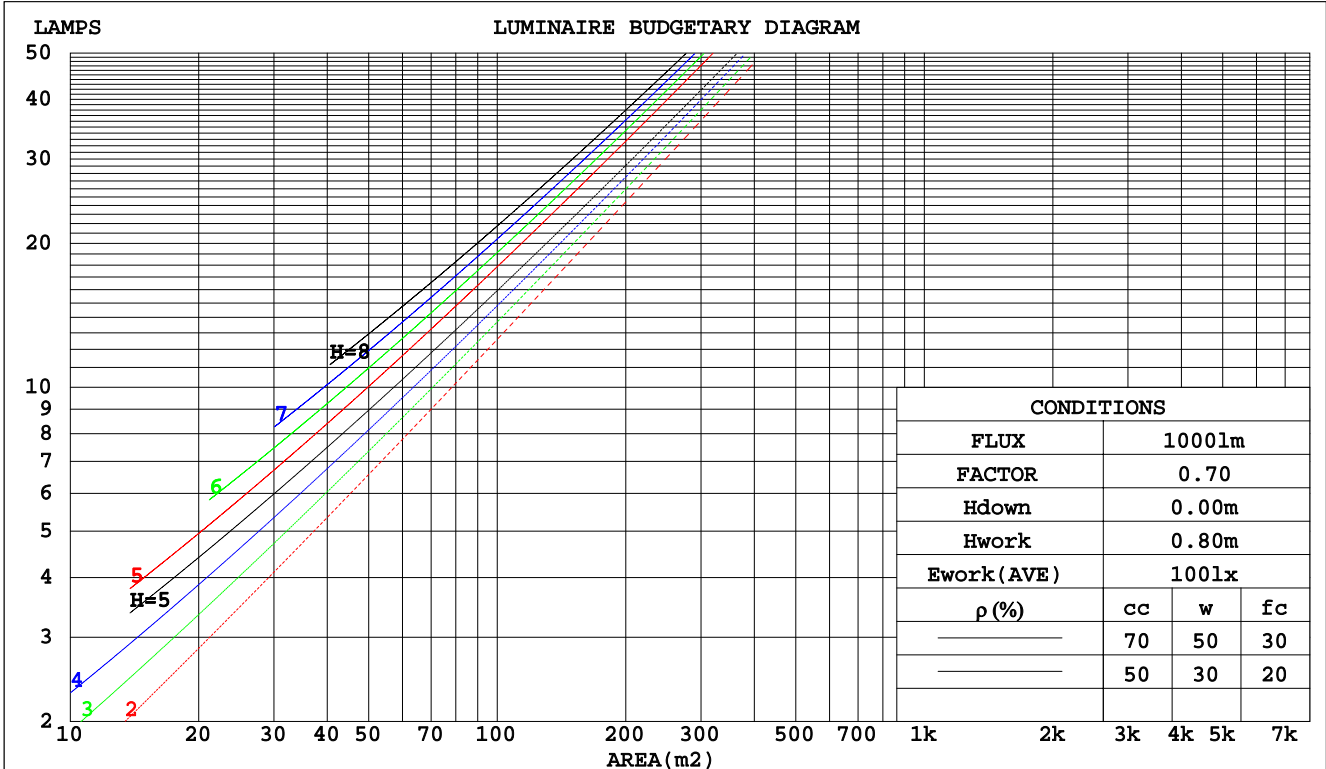
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 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																
ρfc	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	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.98	.94	.98	.95	.92	.95	.93	.90	.92	.90	.88	.87
3.0	.96	.91	.87	.95	.90	.87	.92	.88	.85	.90	.86	.84	.87	.85	.83	.81
4.0	.90	.85	.80	.89	.84	.80	.87	.82	.79	.85	.81	.78	.83	.80	.77	.76
5.0	.85	.79	.75	.84	.78	.74	.82	.77	.74	.80	.76	.73	.79	.75	.72	.71
6.0	.80	.74	.70	.79	.73	.69	.77	.72	.69	.76	.72	.68	.75	.71	.68	.66
7.0	.75	.69	.65	.74	.69	.65	.73	.68	.65	.72	.68	.64	.71	.67	.64	.63
8.0	.71	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.67	.63	.60	.59
9.0	.67	.62	.58	.67	.61	.58	.66	.61	.57	.65	.60	.57	.64	.60	.57	.56
10.0	.64	.58	.54	.63	.58	.54	.63	.58	.54	.62	.57	.54	.61	.57	.54	.53



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-05

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:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 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	.181	.103	.033	.175	.100	.032	.162	.093	.030	.150	.087	.028	.140	.081	.026	
2.0	.172	.094	.029	.166	.092	.028	.156	.087	.027	.146	.082	.026	.137	.077	.024	
3.0	.163	.087	.026	.158	.084	.025	.149	.081	.024	.140	.077	.024	.133	.073	.023	
4.0	.154	.080	.024	.150	.078	.023	.142	.075	.022	.135	.072	.022	.128	.070	.021	
5.0	.146	.074	.022	.143	.073	.021	.136	.071	.021	.129	.068	.020	.124	.066	.020	
6.0	.139	.070	.020	.136	.069	.020	.130	.067	.019	.124	.065	.019	.119	.063	.019	
7.0	.133	.066	.019	.130	.065	.018	.125	.063	.018	.120	.061	.018	.115	.060	.018	
8.0	.127	.062	.017	.124	.061	.017	.120	.060	.017	.115	.058	.017	.111	.057	.017	
9.0	.121	.059	.016	.119	.058	.016	.115	.057	.016	.111	.056	.016	.107	.054	.016	
10.0	.116	.056	.015	.114	.055	.015	.111	.054	.015	.107	.053	.015	.104	.052	.015	

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	.171	.157	.145	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.123	.098	.078	.085	.068	.054	.049	.040	.032	.016	.013	.011	
4.0	.133	.099	.072	.114	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.060	.107	.075	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.117	.078	.050	.101	.067	.043	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.110	.070	.042	.095	.061	.037	.066	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.105	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004	
9.0	.100	.059	.031	.086	.051	.027	.059	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.095	.054	.028	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 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	12.2	13.1	12.4	13.3	13.4	13.1	14.0	13.3	14.2	14.3
3H	12.9	13.7	13.1	13.9	14.1	13.4	14.3	13.7	14.5	14.7
4H	13.2	14.0	13.5	14.2	14.5	13.7	14.6	14.0	14.8	15.0
6H	13.5	14.2	13.7	14.5	14.7	14.1	14.9	14.4	15.1	15.4
8H	13.6	14.4	13.9	14.6	14.9	14.3	15.0	14.6	15.3	15.5
12H	13.7	14.4	14.0	14.7	15.0	14.5	15.2	14.8	15.4	15.7
4H 2H	12.3	13.1	12.6	13.4	13.6	13.1	13.9	13.4	14.2	14.4
3H	13.2	13.9	13.6	14.2	14.5	13.7	14.4	14.0	14.7	14.9
4H	13.7	14.3	14.0	14.6	14.9	14.1	14.7	14.4	15.0	15.3
6H	14.1	14.6	14.4	15.0	15.3	14.6	15.1	14.9	15.5	15.8
8H	14.3	14.9	14.7	15.2	15.6	14.8	15.3	15.2	15.7	16.1
12H	14.5	15.0	14.9	15.4	15.8	15.1	15.5	15.5	15.9	16.3
8H 4H	13.8	14.3	14.2	14.7	15.0	14.2	14.7	14.6	15.1	15.4
6H	14.4	14.8	14.8	15.2	15.6	14.8	15.2	15.2	15.6	16.0
8H	14.7	15.1	15.2	15.5	16.0	15.1	15.5	15.6	15.9	16.4
12H	15.1	15.4	15.6	15.9	16.3	15.5	15.8	15.9	16.2	16.7
12H 4H	13.8	14.3	14.2	14.7	15.0	14.2	14.7	14.6	15.0	15.4
6H	14.4	14.8	14.8	15.2	15.6	14.8	15.2	15.3	15.6	16.1
8H	14.8	15.2	15.3	15.6	16.1	15.2	15.5	15.7	16.0	16.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 2.6 / - 1.6				
1.5H	+ 0.1 / - 0.2					+ 4.5 / - 1.7				
2.0H	+ 0.2 / - 0.4					+ 1.3 / - 0.4				

CIE Pub.117 Corrected 10059 lm Total Lamp Luminous Flux. (8log(F/F0) = 8.0)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 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	87	80	77	86	80	77	86	80	76	73
0.80	94	88	85	94	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	101	97	104	100	97	102	98	95	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	107	104	106	104	102	95
4.00	114	111	108	111	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

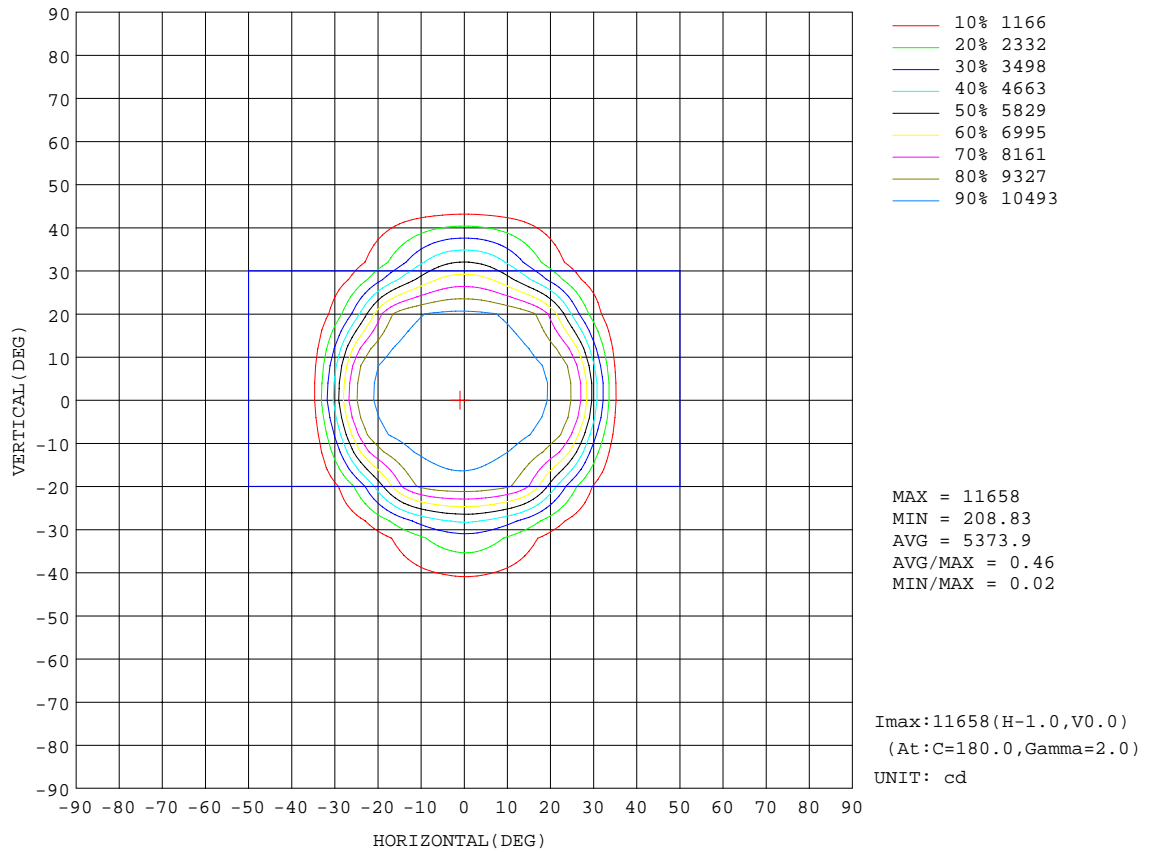
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

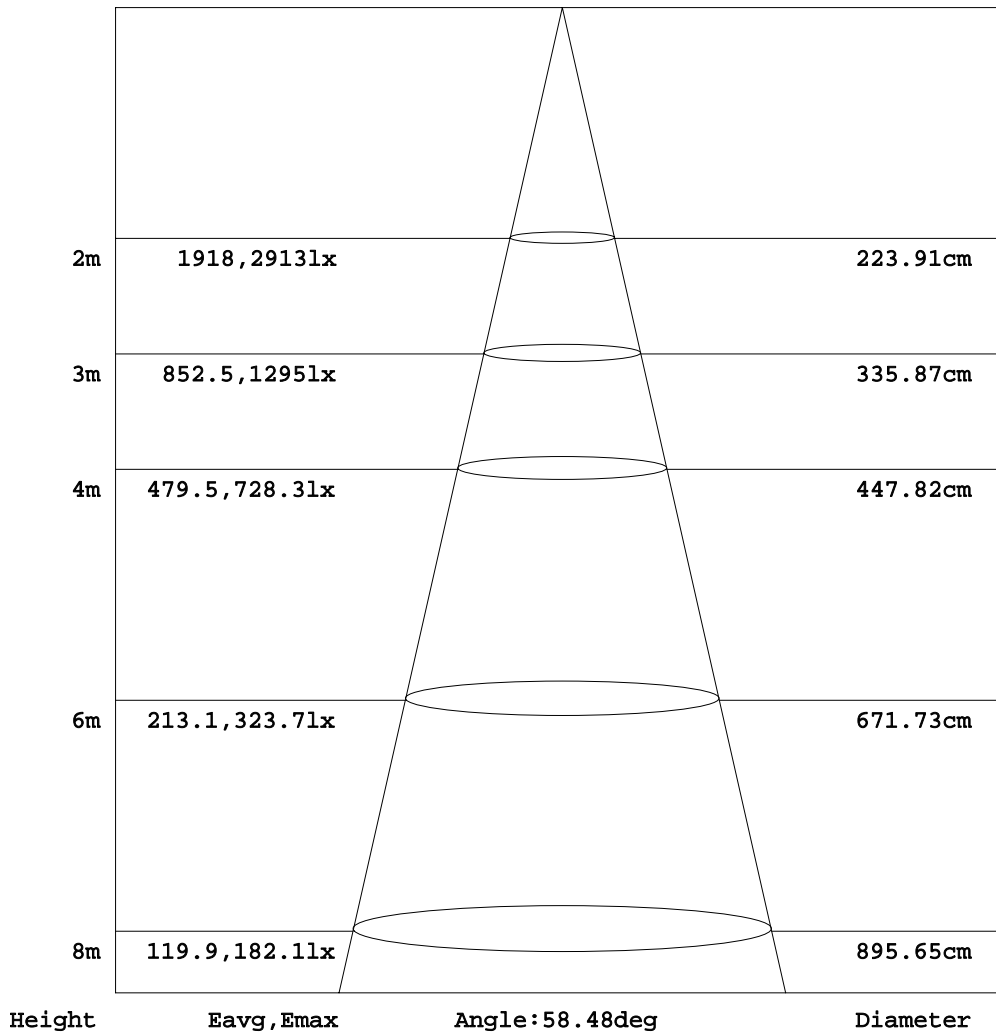
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.350
 Humidity:65.0%
 Test Distance:7.850m [K=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

AAI Figure

Test:U:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 lm		

Flux out:7716 lm



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

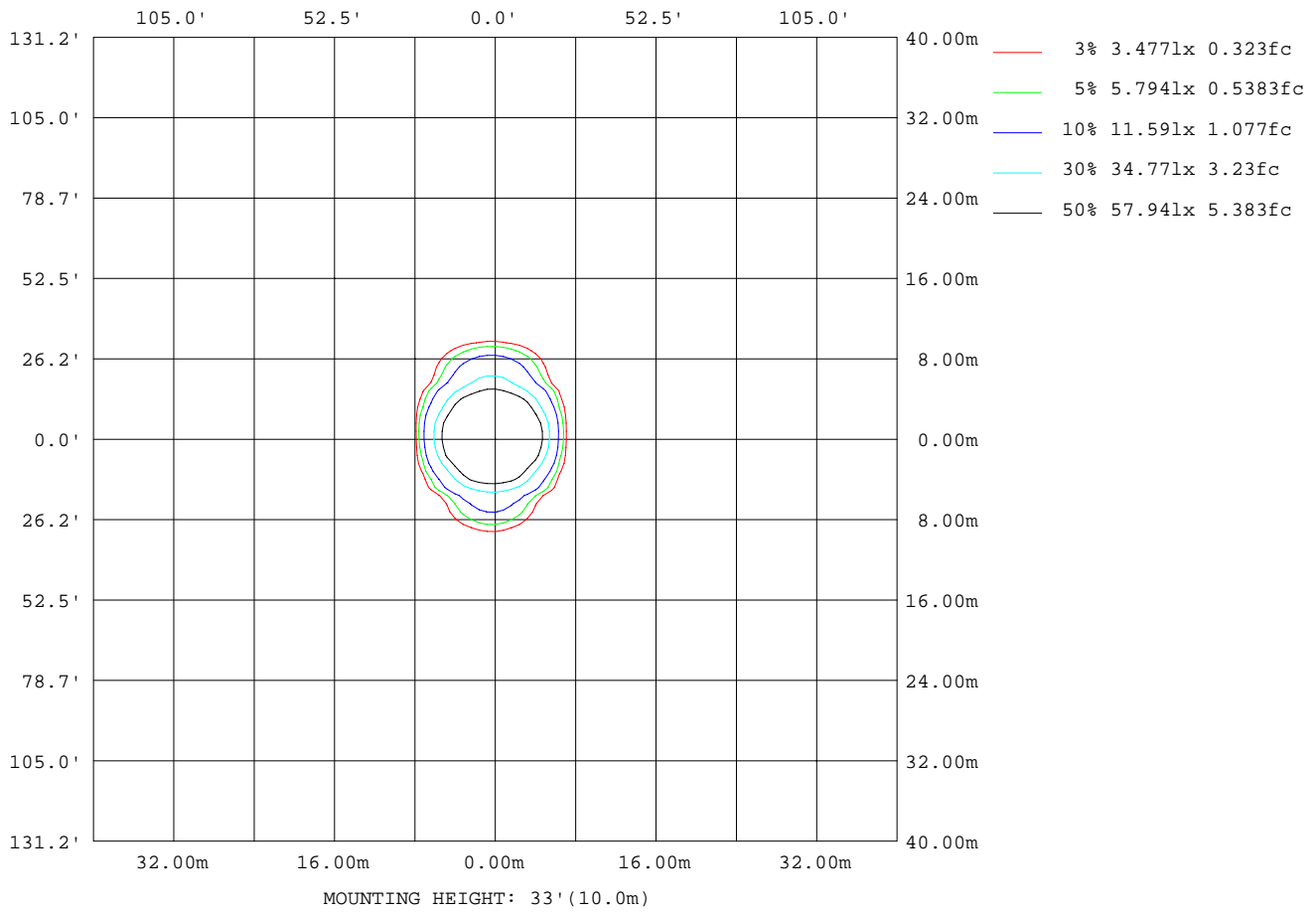
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2016-09-05

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:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 lm		



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 lm		

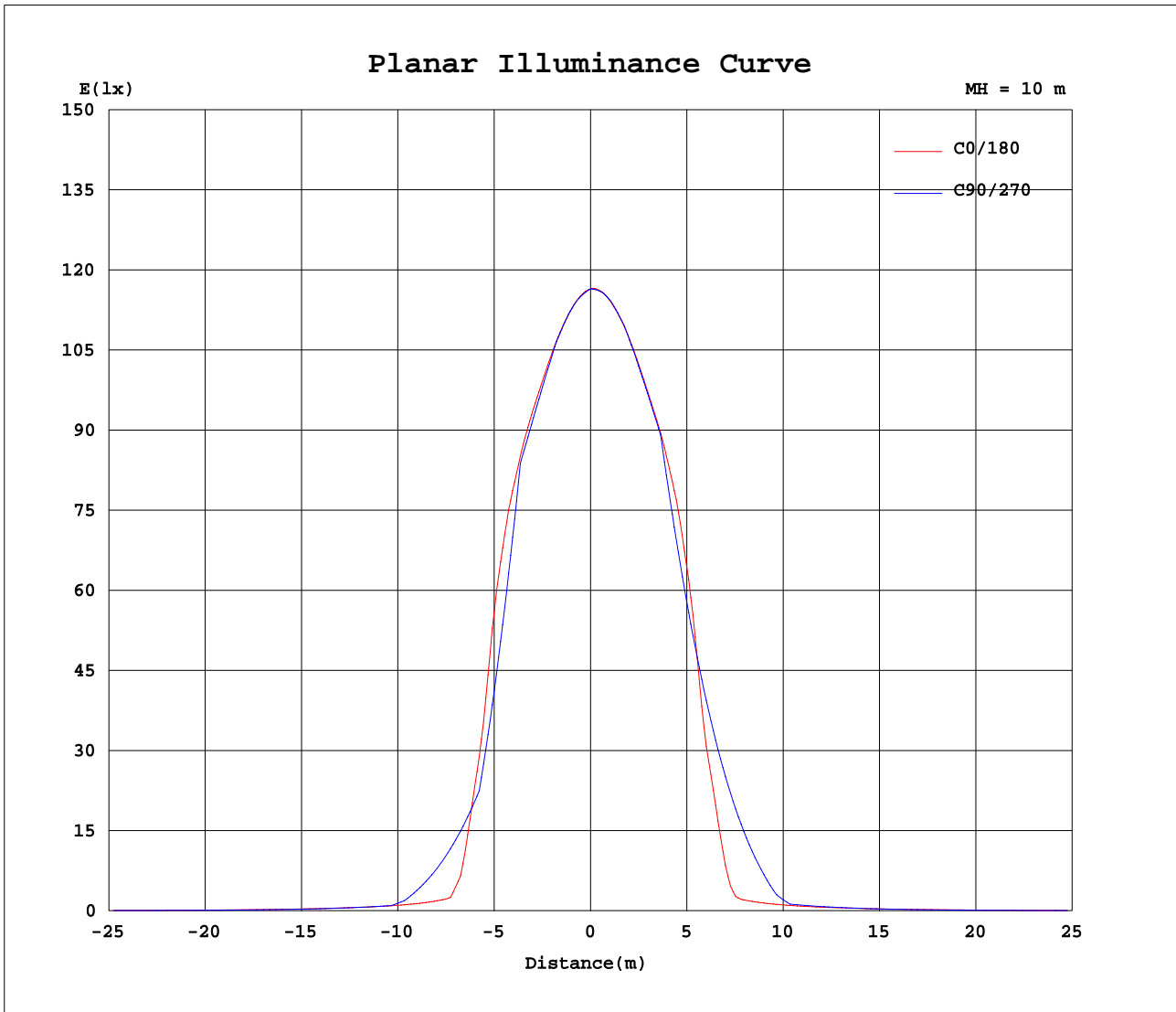
AvgL	cd/m2
L_0~180(65)av	3357
L_0~180(75)av	2669
L_0~180(85)av	2336
L_90~270(65)av	2928
L_90~270(75)av	2712
L_90~270(85)av	3145
L_45(65)av	3137
L_45(75)av	2623
L_45(85)av	2539

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2016-09-05

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: 2016-09-05

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:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 lm																			

Table--3

UNIT: x10cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165
5	1162	1162	1162	1162	1163	1163	1164	1164	1165	1165	1165	1165	1164	1164	1164	1163	1162	1162	1161
10	1145	1145	1146	1147	1147	1148	1148	1147	1147	1148	1148	1148	1148	1148	1148	1147	1146	1144	1142
15	1115	1117	1117	1118	1118	1118	1119	1118	1116	1115	1114	1114	1114	1113	1113	1112	1110	1108	1106
20	1079	1080	1079	1079	1077	1067	1064	1064	1065	1068	1070	1073	1076	1078	1077	1076	1074	1072	1068
25	980	984	989	967	936	931	943	965	987	959	922	898	886	881	878	875	871	867	861
30	611	626	636	624	610	610	639	655	647	625	608	607	622	644	663	670	668	656	634
35	182	209	226	233	236	254	278	288	280	260	303	353	397	431	452	460	458	448	428
40	40.2	40.6	43.1	49.8	64.4	80.1	80.3	75.2	105	137	169	198	222	238	247	250	248	243	233
45	31.8	31.8	32.1	32.2	32.2	31.9	33.0	38.8	51.3	65.9	76.2	79.8	74.9	62.9	59.7	59.5	58.7	56.7	56.5
50	26.7	26.8	26.9	26.9	26.8	26.6	26.6	26.9	28.6	28.6	25.7	25.2	25.3	25.1	26.2	29.7	30.9	28.0	25.1
55	23.0	23.2	23.1	23.1	22.8	22.6	22.4	21.9	21.4	20.9	20.5	20.1	19.7	19.3	19.8	22.4	23.2	21.1	19.0
60	19.2	19.5	19.7	19.4	19.3	19.1	18.5	17.9	17.3	16.7	16.0	15.2	14.4	13.5	13.5	15.2	15.6	14.5	13.0
65	15.0	15.4	15.5	15.6	15.6	15.2	14.5	14.0	13.4	12.7	12.0	11.3	10.8	10.3	10.4	11.8	12.1	11.2	10.1
70	11.2	11.5	11.9	11.6	11.4	11.2	10.6	10.2	9.75	9.19	8.59	8.09	7.85	7.58	7.60	8.41	8.70	8.11	7.44
75	8.00	8.26	8.15	7.91	7.66	7.55	7.16	6.68	6.18	5.67	5.16	4.79	4.83	4.85	4.93	5.25	5.42	5.18	4.86
80	5.08	5.08	4.87	4.76	4.47	4.15	3.76	3.46	3.26	3.11	2.95	2.87	3.04	3.13	3.21	3.41	3.53	3.38	3.17
85	3.16	2.97	2.60	2.22	2.03	1.93	1.85	1.78	1.68	1.60	1.52	1.48	1.56	1.61	1.64	1.75	1.81	1.73	1.63
90	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08

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: 2016-09-05 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.9V I:0.6568A P:79.15W PF:0.9963 Lamp Flux:10059.2x1 lm		

Table--4

UNIT: x10cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165				
5	1160	1159	1158	1157	1156	1155	1154	1152	1151	1150	1149	1148	1148	1147	1147				
10	1140	1138	1136	1134	1131	1130	1128	1127	1126	1125	1123	1122	1120	1118	1118				
15	1103	1099	1096	1093	1092	1090	1090	1088	1086	1085	1084	1083	1080	1079					
20	1063	1056	1050	1044	1037	1030	1025	1022	1025	1036	1037	1035	1034	1031	1028				
25	855	855	863	882	913	931	898	867	853	860	888	903	896	892	882				
30	603	573	554	551	564	573	567	541	510	504	502	492	479	473	456				
35	395	352	301	249	208	227	230	215	191	169	158	136	117	93.5	79.1				
40	217	195	167	137	107	78.3	53.8	59.9	56.2	43.6	39.0	37.7	37.4	37.1	36.8				
45	58.5	67.1	68.4	63.2	52.6	39.6	32.2	30.3	29.9	30.3	30.5	30.4	30.0	29.9	29.7				
50	24.6	24.6	24.4	24.7	26.3	25.9	25.4	25.4	25.4	25.5	25.7	25.8	25.7	25.5	25.3				
55	19.0	19.2	19.6	19.9	20.3	20.8	21.3	21.6	21.8	21.9	22.1	22.2	22.2	21.9	21.8				
60	13.4	14.2	15.0	15.7	16.3	16.9	17.4	18.0	18.5	18.6	18.6	18.7	18.5	18.3	18.1				
65	10.3	10.7	11.2	11.8	12.5	13.1	13.6	14.2	14.7	15.0	15.0	14.7	14.5	14.3	13.9				
70	7.51	7.70	7.97	8.47	8.98	9.47	9.92	10.5	10.8	10.9	11.1	11.4	10.9	10.5	10.1				
75	4.80	4.64	4.66	5.05	5.50	5.97	6.42	6.88	7.16	7.15	7.31	7.62	7.67	7.39	6.88				
80	3.10	2.89	2.78	2.87	2.99	3.11	3.20	3.45	3.77	4.07	4.34	4.43	4.70	4.76	4.72				
85	1.59	1.48	1.43	1.48	1.54	1.60	1.64	1.68	1.72	1.83	2.05	2.39	2.86	2.71	1.76				
90	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09				

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:2016-09-05	Remarks: