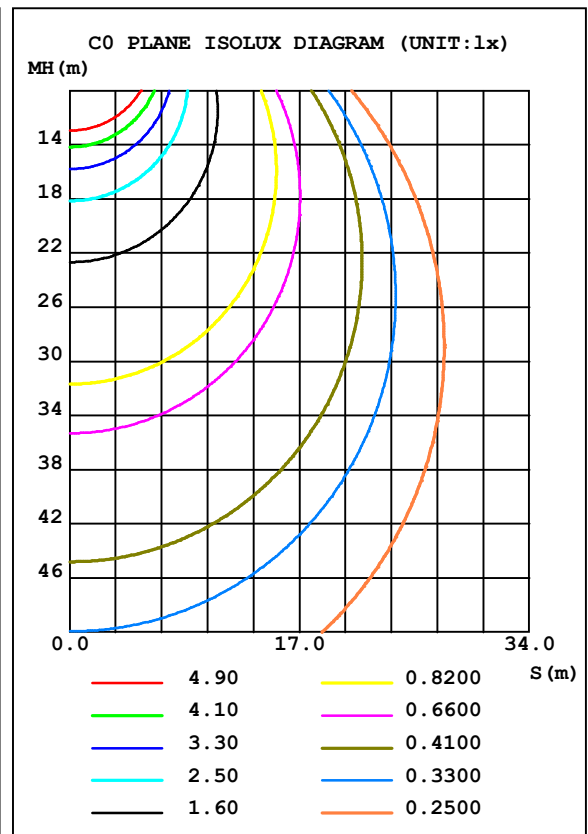
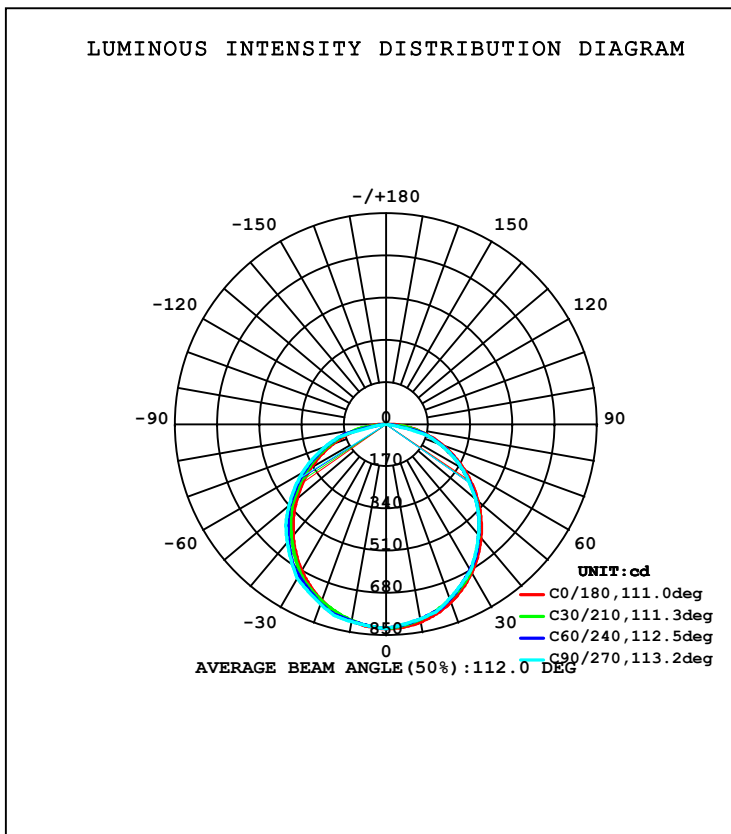


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm		
NAME: panel	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.01 lm/W			
MODEL	6500k	I <sub>max</sub> (cd)	823.0	S/MH (C0/180)	1.25
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2881.8	η UP, DN (C0-180)	0.0, 48.7
NOMINAL FLUX (lm)	2881.77	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	221.0	η down (%)	100.0	CIBSE SHR MAX	1.35



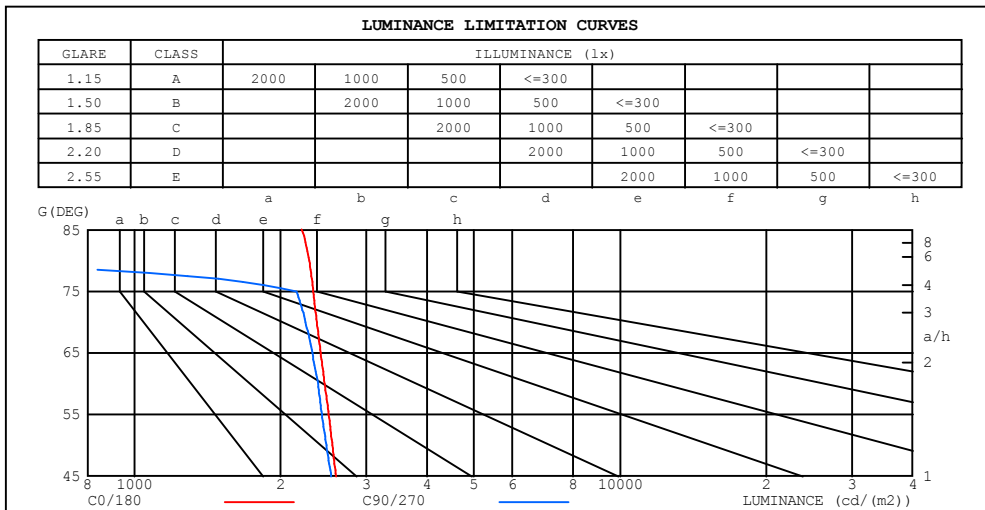
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-05-17

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity: 65.0%  
 Test Distance: 18.825m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	819.8	811.8	809.2	810.4	817.8	814.6	815.2	816.0	0- 5	19.54	19.54	0.84,0.84
10	808.8	796.7	795.5	794.2	805.0	802.6	807.3	805.1	5- 10	57.75	77.29	3.32,3.32
15	789.8	777.9	781.7	774.2	784.2	786.7	799.5	790.5	10- 15	94.04	171.3	7.36,7.36
20	763.6	755.8	748.1	751.1	756.4	767.6	771.8	772.6	15- 20	127.2	298.5	12.8,12.8
25	730.3	718.3	714.4	712.6	721.6	733.1	744.1	739.0	20- 25	155.5	454.1	19.5,19.5
30	691.0	676.5	680.7	669.8	680.9	694.1	716.4	701.2	25- 30	178.8	632.9	27.2,27.2
35	645.8	633.0	630.6	625.4	634.4	653.4	668.4	661.5	30- 35	196.2	829.0	35.6,35.6
40	595.9	586.2	580.4	577.8	583.6	609.1	620.4	618.0	35- 40	206.4	1035	44.5,44.5
45	541.9	528.6	530.3	519.8	528.6	551.7	572.4	561.0	40- 45	210.0	1245	53.5,53.5
50	484.6	471.2	470.9	462.0	470.6	494.6	511.7	504.1	45- 50	207.1	1453	62.4,62.4
55	424.8	414.4	411.4	405.0	410.3	437.9	451.0	447.6	50- 55	197.3	1650	70.9,70.9
60	363.3	351.7	352.0	342.1	348.7	373.1	390.4	382.8	55- 60	181.7	1831	78.7,78.7
65	301.3	290.7	289.5	281.2	286.4	310.3	325.1	319.8	60- 65	161.1	1993	85.6,85.6
70	239.5	229.7	227.0	220.6	224.6	247.3	259.8	256.5	65- 70	136.2	2129	91.5,91.5
75	178.1	168.2	164.5	159.8	163.9	183.6	194.5	191.9	70- 75	108.0	2237	96.1,96.1
80	117.2	93.22	0	87.12	104.6	104.3	0	110.3	75- 80	68.55	2305	99,99
85	56.70	0	0	0	45.77	0	0	0	80- 85	20.27	2326	99.9,99.9
90	0	0	0	0	0.0000	0	0	0	85- 90	2.132	2328	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		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2205	0
80	2288	0
75	2333	2155
70	2374	2250
65	2417	2322
60	2463	2386
55	2511	2431
50	2556	2483
45	2598	2542

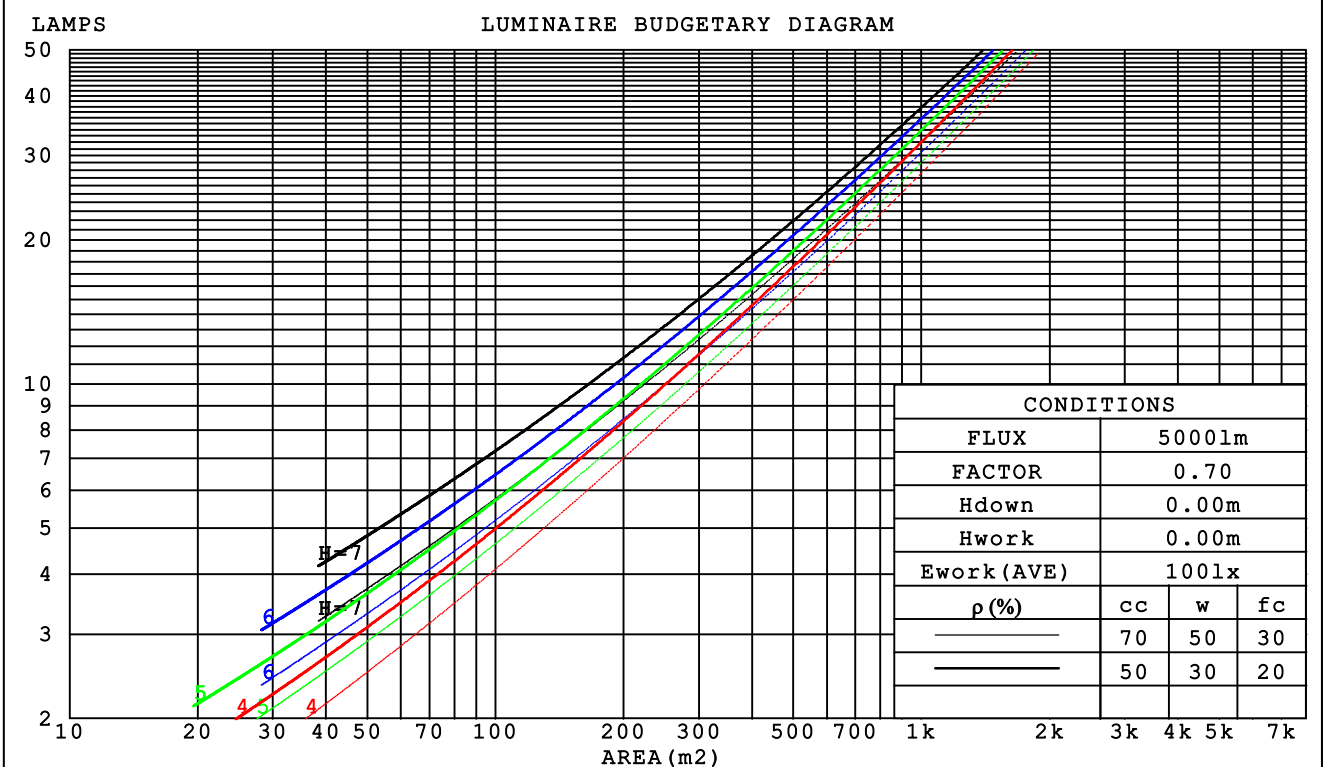
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-05-17

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
Humidity:65.0%  
Test Distance:18.825m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm		
NAME: panel	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

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	1.04	.00	.96	1.02	.98	.95	.98	.94	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.74	.79	.75	.72	.70
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.59
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.53	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.59	.52	.46	.57	.51	.46	.56	.50	.45	.43
6.0	.56	.47	.41	.55	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.31	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27
10.0	.39	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-05-17

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.825m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm		
NAME: panel	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.304	.173	.055	.297	.170	.054	.284	.163	.052	.272	.157	.050	.261	.151	.049	
2.0	.290	.159	.049	.284	.156	.048	.272	.151	.047	.262	.147	.046	.252	.142	.045	
3.0	.270	.144	.043	.264	.141	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.249	.130	.038	.244	.128	.038	.235	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.117	.034	.226	.116	.034	.218	.114	.033	.210	.111	.033	.203	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.098	.028	.196	.097	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.088	.025	.172	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.171	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.161	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021	

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	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	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.074	.141	.099	.064	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-05-17

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.825m [K=1.0000]  
 Remarks:

Uncorrected UGR Table

Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm										
NAME: panel					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:1		
MFR.:					SUR.:			PROTECTION ANGLE:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	16.0	17.5	16.2	17.7	17.9	15.9	17.5	16.2	17.7	17.9
3H	17.6	19.0	17.9	19.3	19.5	17.5	18.9	17.8	19.2	19.4
4H	18.3	19.7	18.7	19.9	20.2	18.2	19.5	18.5	19.8	20.1
6H	18.9	20.2	19.3	20.5	20.7	18.3	19.5	18.6	19.8	20.1
8H	19.1	20.3	19.5	20.6	20.9	18.2	19.4	18.6	19.7	20.0
12H	19.2	20.4	19.6	20.7	21.0	18.2	19.3	18.5	19.6	19.9
4H 2H	16.6	17.9	16.9	18.2	18.5	16.6	17.9	16.9	18.2	18.4
3H	18.4	19.6	18.8	19.9	20.2	18.4	19.5	18.7	19.8	20.1
4H	19.3	20.4	19.7	20.7	21.0	19.2	20.2	19.6	20.6	20.9
6H	20.0	21.0	20.4	21.3	21.7	19.3	20.3	19.7	20.6	21.0
8H	20.3	21.1	20.7	21.5	21.9	19.3	20.1	19.7	20.5	20.9
12H	20.4	21.2	20.8	21.6	22.0	19.2	20.0	19.6	20.4	20.8
8H 4H	19.6	20.5	20.0	20.9	21.2	19.5	20.4	19.9	20.7	21.1
6H	20.5	21.2	20.9	21.6	22.0	19.7	20.4	20.1	20.8	21.2
8H	20.8	21.5	21.3	21.9	22.4	19.6	20.3	20.1	20.7	21.2
12H	21.1	21.6	21.5	22.1	22.5	19.6	20.2	20.1	20.6	21.1
12H 4H	19.6	20.4	20.0	20.8	21.2	19.5	20.3	19.9	20.7	21.1
6H	20.5	21.1	20.9	21.6	22.0	19.7	20.4	20.2	20.8	21.2
8H	20.8	21.4	21.3	21.8	22.3	19.7	20.2	20.2	20.7	21.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 2881 lm Total Lamp Luminous Flux. (8log(F/F0) = 2.9)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-05-17

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.825m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm		
NAME: panel	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

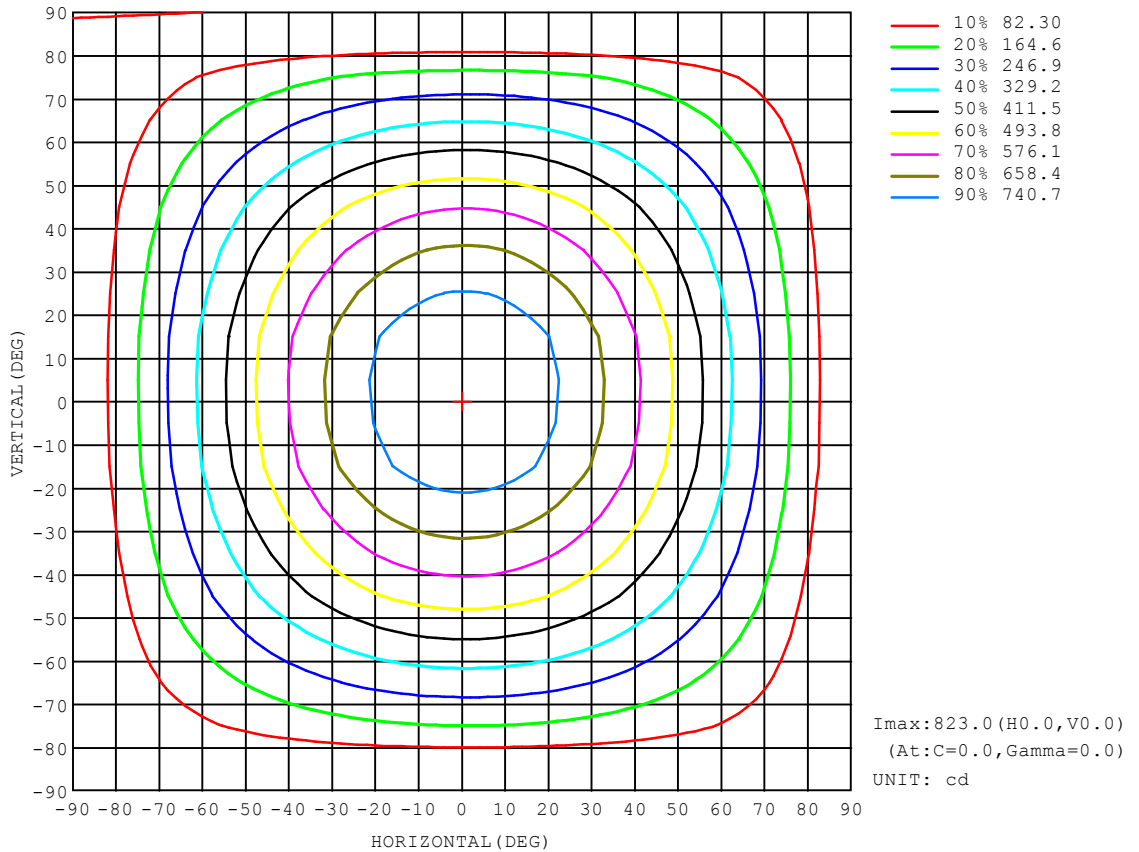
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	46	39	56	45	39	32
0.80	68	56	49	66	55	48	65	55	48	41
1.00	76	65	57	75	64	57	72	66	57	50
1.25	83	73	65	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	76	70	62
2.00	95	87	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	92	83
5.00	109	104	100	106	102	99	102	99	96	86
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:25.3DEG  
 Operators:  
 Test Date:2017-05-17

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.825m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm		
NAME: panel	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

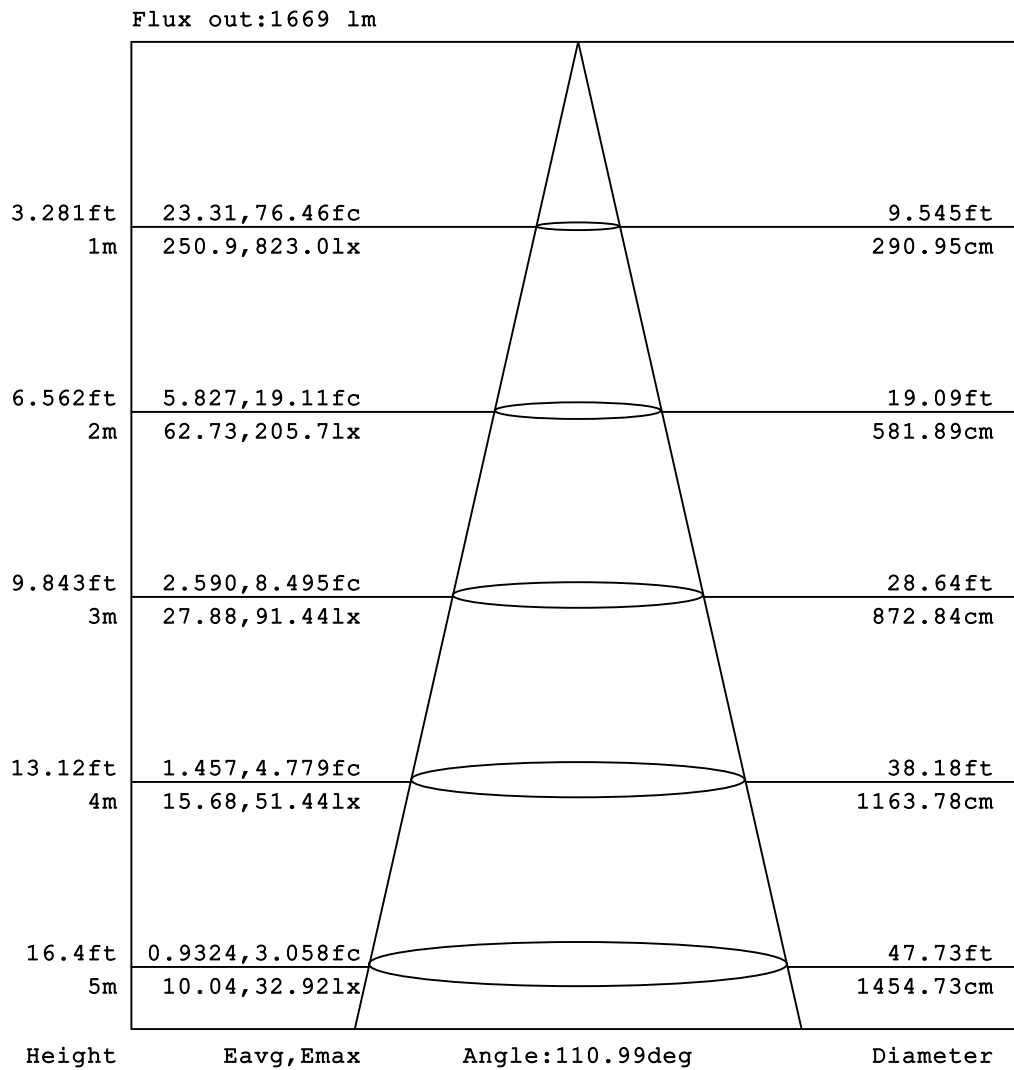


C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-05-17

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.825m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm		
NAME: panel	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:



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

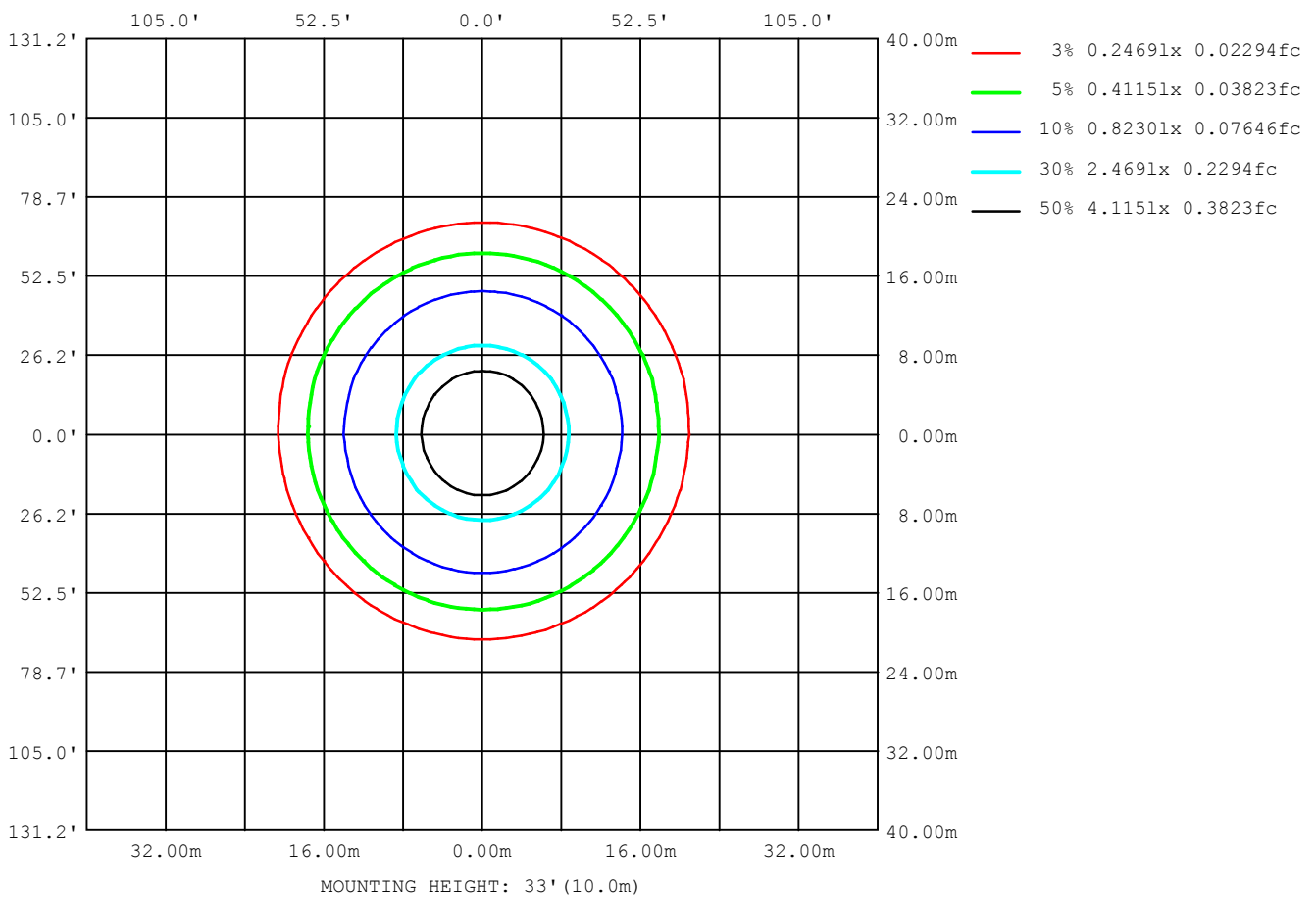
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-05-17

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.825m [K=1.0000]  
 Remarks:



ISOLUX DIAGRAM

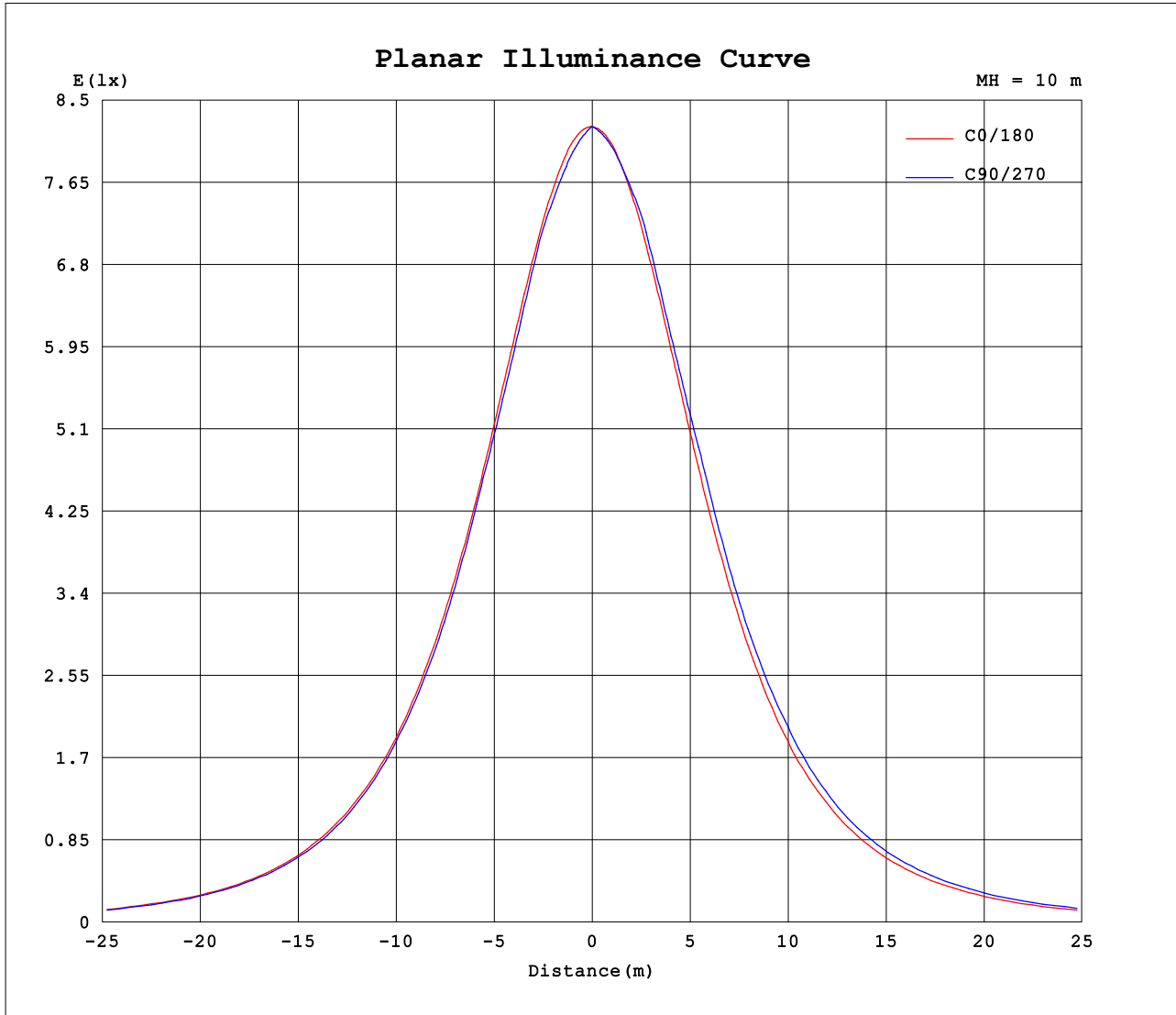
Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm		
NAME: panel	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-05-17

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.825m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-05-17

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity: 65.0%  
 Test Distance: 18.825m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm		
NAME: panel	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823
5	820	819	817	816	815	815	814	813	812	812	811	811	810	810	810	810	809	809	809
10	809	807	804	803	801	800	799	798	797	797	796	796	796	796	796	796	796	795	795
15	790	786	784	782	780	779	778	778	778	778	778	779	780	780	781	781	782	782	782
20	764	759	756	754	752	752	752	753	754	756	755	753	752	751	750	749	749	748	748
25	730	725	722	720	719	720	721	724	721	718	717	716	715	715	715	715	715	715	714
30	691	685	682	680	681	683	682	679	677	676	676	677	678	679	679	680	681	681	681
35	646	640	636	636	638	637	634	632	632	633	635	637	635	634	633	632	632	631	631
40	596	589	587	587	588	584	583	583	585	586	584	583	582	582	581	581	581	581	580
45	542	535	533	536	531	529	530	533	530	529	528	528	528	529	530	530	531	531	530
50	485	478	477	477	473	474	475	472	471	471	472	474	474	473	473	472	472	471	471
55	425	418	419	415	415	416	413	412	413	414	413	413	413	412	412	412	412	412	411
60	363	357	357	354	356	352	352	353	352	352	352	352	352	352	353	353	353	352	352
65	301	296	294	294	291	291	291	290	290	291	291	292	291	291	291	291	290	290	289
70	240	236	233	231	231	230	229	230	230	230	229	229	229	229	229	228	228	228	227
75	178	174	172	171	170	170	170	169	168	168	168	168	167	167	167	166	166	165	165
80	117	113	109	108	110	109	109	109	108	93.2	74.8	58.1	43.2	30.3	19.5	11.0	4.92	1.23	0.00
85	56.7	38.4	40.9	46.0	45.0	22.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-05-17

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.825m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm		
NAME: panel	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823
5	809	809	809	809	809	809	810	810	810	811	812	812	813	814	815	816	817	818	817
10	795	795	795	794	794	794	794	794	794	795	795	796	796	798	799	801	803	805	804
15	781	781	780	779	778	777	776	775	774	774	773	773	774	775	776	778	781	784	783
20	748	747	747	748	748	749	750	751	751	749	747	746	746	746	747	749	752	756	754
25	714	713	713	712	712	711	711	712	713	714	717	714	712	711	712	713	717	722	719
30	680	679	678	676	675	673	671	670	670	670	672	674	674	672	671	672	675	681	678
35	630	630	629	629	630	630	631	628	625	624	623	625	627	628	625	626	628	634	632
40	580	579	578	577	577	576	576	576	578	576	573	572	574	577	576	575	577	584	581
45	530	528	527	526	524	522	521	520	520	521	522	519	518	520	523	521	522	529	526
50	470	470	469	468	468	467	466	464	462	461	461	464	462	461	464	464	464	471	469
55	411	410	409	408	407	406	405	405	405	403	401	401	403	402	402	406	404	410	409
60	351	350	349	348	347	345	344	343	342	342	342	340	340	342	341	344	343	349	348
65	289	288	287	287	286	285	284	283	281	280	279	280	279	279	281	280	282	286	287
70	226	226	225	224	224	223	222	221	221	220	219	218	218	218	218	219	222	225	227
75	164	164	163	163	162	161	161	160	160	159	159	159	159	158	159	160	161	164	167
80	1.22	4.86	10.8	19.0	29.3	41.4	55.3	70.6	87.1	100	100	100	100	100	98.9	97.8	100.0	105	108
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.0	39.0	39.4	34.3	30.7	45.8	49.9
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-05-17

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.825m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm		
NAME: panel	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

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	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823
5	817	816	816	815	815	815	815	815	815	815	815	815	815	815	815	815	815	815	815
10	803	802	802	801	802	802	802	803	803	804	804	805	806	806	807	807	807	807	807
15	781	781	781	781	782	783	785	787	789	791	792	794	796	797	798	799	800	799	799
20	753	753	754	756	758	761	764	768	769	769	769	769	770	770	771	771	772	772	772
25	718	719	721	724	728	734	733	733	734	735	737	738	740	741	743	743	744	744	744
30	678	680	683	688	691	691	692	694	697	700	703	706	709	712	714	715	716	716	716
35	632	635	641	644	644	646	649	653	658	664	664	665	665	666	667	668	668	669	669
40	582	587	592	592	594	599	605	609	609	610	612	614	615	617	618	620	620	621	621
45	529	536	536	538	543	550	551	552	554	556	559	562	565	568	570	571	572	573	572
50	473	477	478	483	489	490	491	495	499	503	505	506	508	509	510	511	512	512	512
55	415	416	420	426	426	429	433	438	439	441	442	444	446	448	449	450	451	451	452
60	353	355	362	362	365	370	371	373	375	378	380	383	385	387	388	390	390	391	391
65	290	296	297	301	304	305	307	310	313	316	318	319	321	322	323	324	325	326	326
70	230	233	236	238	240	243	246	247	249	251	253	254	256	257	258	259	260	260	261
75	170	173	174	177	179	180	182	184	185	187	189	190	191	192	193	194	195	195	195
80	111	112	114	115	117	119	120	104	84.3	65.9	49.3	34.8	22.6	12.8	5.75	1.45	0.00	1.46	5.82
85	51.2	52.4	49.5	24.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-05-17

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.825m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.9V I:0.2072A P:42.37W PF:0.9256 Lamp Flux:2881.77x1 lm		
NAME: panel	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C (DEG) \ γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	823	823	823	823	823	823	823	823	823	823	823	823	823	823	823				
5	815	815	816	816	816	816	816	816	817	817	817	818	818	819	819				
10	807	807	807	806	806	806	805	805	805	805	805	805	806	807	808				
15	799	798	797	795	794	792	791	789	788	787	786	786	786	787	788				
20	772	772	772	773	773	774	773	769	766	764	762	760	760	760	761				
25	744	743	742	741	740	739	739	739	740	736	732	729	727	727	728				
30	715	713	711	708	706	703	701	700	699	700	697	692	689	688	688				
35	669	669	670	670	670	666	661	658	655	653	654	651	646	643	643				
40	620	620	619	618	617	617	618	614	609	605	603	603	598	594	593				
45	571	570	568	566	564	562	561	561	561	555	550	548	548	541	539				
50	512	512	512	512	511	507	504	502	501	501	496	491	490	486	482				
55	451	451	450	449	448	448	448	444	440	439	439	434	429	428	423				
60	390	390	388	387	386	384	383	382	382	377	375	375	369	367	362				
65	326	325	325	324	324	322	320	318	316	316	313	310	310	304	301				
70	261	260	260	259	258	257	256	256	254	251	250	249	246	244	241				
75	195	195	195	195	194	193	192	191	190	189	188	186	185	183	180				
80	13.0	23.1	35.8	51.0	68.6	88.5	110	128	127	126	125	124	123	122	120				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.1	56.1	60.5	59.6	59.2			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-05-17

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.281  
 Humidity:65.0%  
 Test Distance:18.825m [K=1.0000]  
 Remarks: