

Luminaire Photograph



Light Output Ratio:	100.0%	
Luminaire Power:	44.51 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.35	fine grid method.

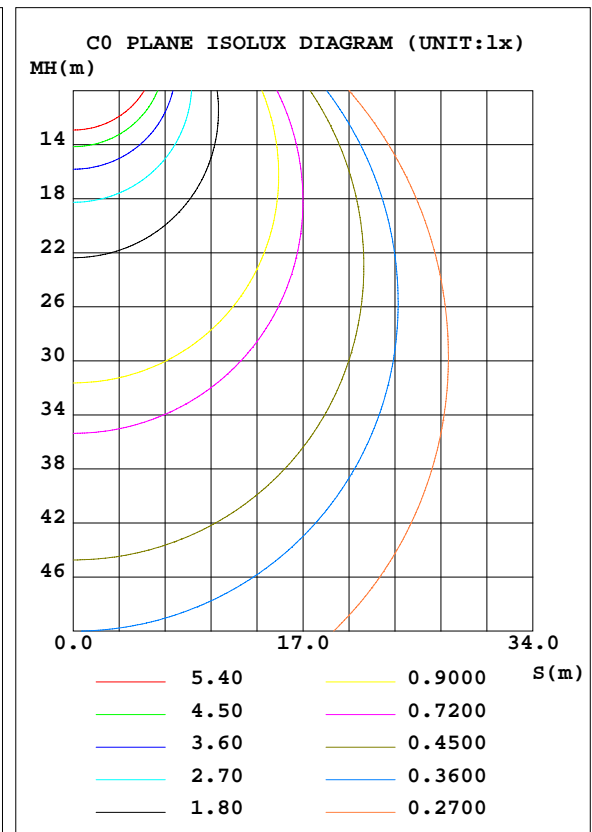
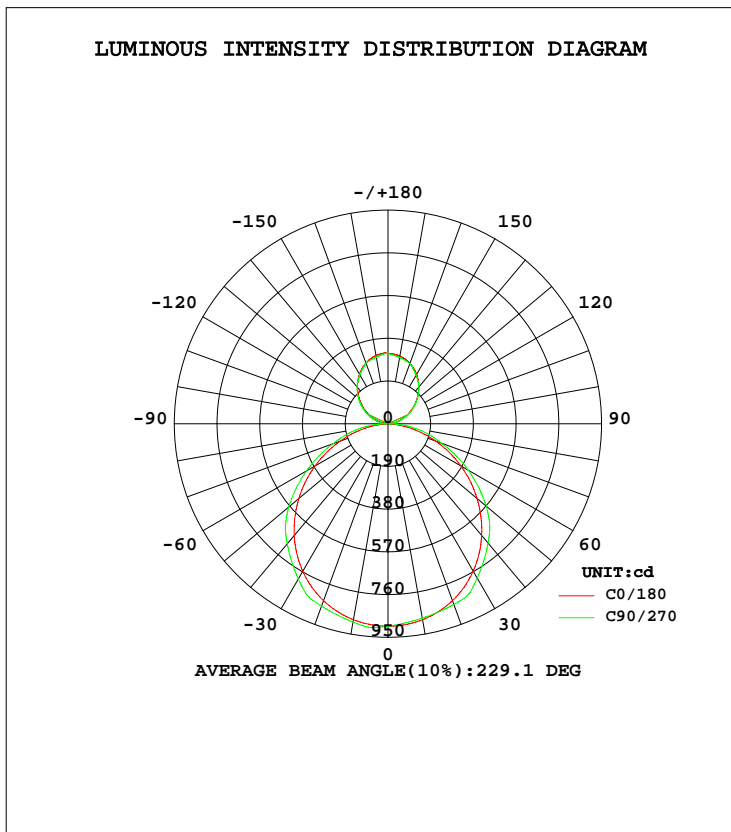
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:jwx
Test Date:2013-03-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:18.000m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.6V I:0.2155A P:44.51W PF:0.9362 Lamp Flux:3440.5x1 lm		
NAME: Double-sided panel light	TYPE:SL-PAN-45W-PW-UD	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:CZ130301
MANUFACTURER: Sheenly Lighting Co., Ltd	SURFACE:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.30 lm/W			
MODEL	LED45W	I _{max} (cd)	909.5	S/MH(C0/180)	1.25
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3440.5	η UP, DN(C0-180)	12.0, 38.3
NOMINAL FLUX(lm)	3440.5	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	11.9, 37.7
LAMPS INSIDE	1	η up(%)	24.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.0	η down(%)	76.0	CIBSE SHR MAX	1.35



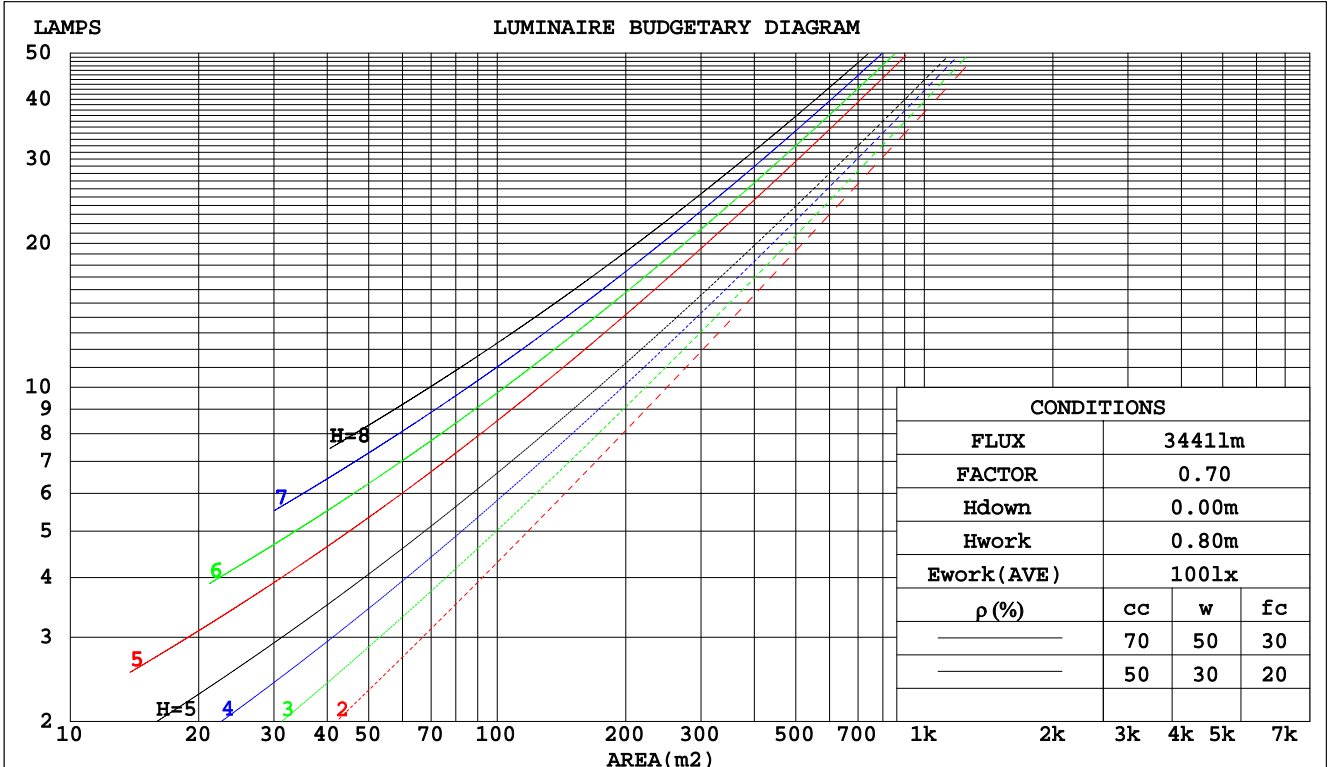
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 Humidity:65.0%
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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DIMENSION:	SPECIFICATION:	SERIAL No.:CZ130301
MANUFACTURER: Sheenly Lighting Co., Ltd	SURFACE:	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	1.13	1.13	1.13	1.08	1.08	1.08	.98	.98	.98	.89	.89	.89	.80	.80	.80	.76
1.0	.99	.94	.91	.94	.90	.87	.85	.83	.80	.78	.75	.73	.70	.69	.67	.63
2.0	.86	.79	.74	.82	.76	.71	.75	.70	.66	.68	.64	.61	.62	.59	.56	.53
3.0	.75	.67	.61	.72	.65	.59	.66	.60	.55	.60	.55	.51	.54	.51	.47	.44
4.0	.67	.58	.52	.64	.56	.50	.58	.52	.47	.53	.48	.44	.48	.44	.41	.38
5.0	.59	.51	.44	.57	.49	.43	.52	.45	.40	.48	.42	.38	.43	.39	.35	.33
6.0	.53	.45	.39	.51	.43	.37	.47	.40	.35	.43	.37	.33	.39	.35	.31	.28
7.0	.48	.40	.34	.46	.38	.33	.43	.36	.31	.39	.33	.29	.36	.31	.27	.25
8.0	.44	.36	.30	.42	.35	.29	.39	.32	.28	.36	.30	.26	.33	.28	.25	.22
9.0	.40	.32	.27	.39	.31	.26	.36	.29	.25	.33	.27	.23	.30	.26	.22	.20
10.0	.37	.29	.24	.36	.28	.24	.33	.27	.22	.30	.25	.21	.28	.23	.20	.18



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 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
 Humidity:65.0%
 Test Distance:18.000m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

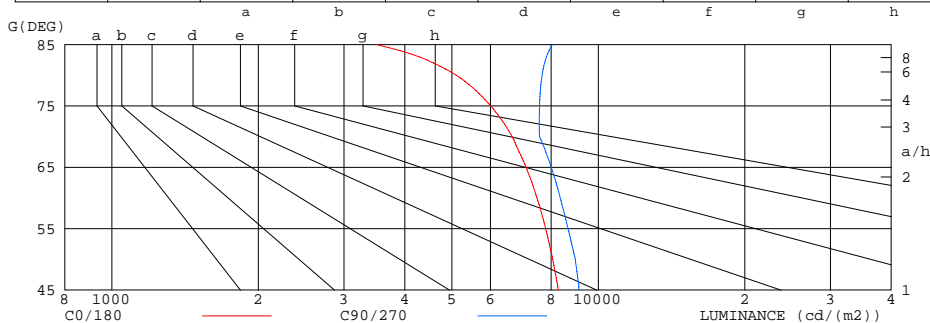
ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%
5	896.6	906.4	909.0	906.5	896.5	890.4	889.2	890.4	0- 5	21.50	21.50	0.63
10	884.9	897.4	895.7	897.4	884.9	876.5	878.0	876.7	5- 10	63.85	85.36	2.48
15	865.4	875.6	879.6	875.8	865.2	858.2	866.7	858.4	10- 15	104.1	189.5	5.51
20	837.8	849.9	863.5	849.8	837.6	835.7	855.4	836.3	15- 20	141.3	330.8	9.61
25	801.8	819.7	844.0	819.5	801.8	809.1	840.2	809.9	20- 25	174.6	505.4	14.69
30	758.0	785.3	797.3	785.0	757.7	778.7	793.6	779.9	25- 30	202.3	707.7	20.57
35	706.8	739.8	747.2	739.2	706.1	735.8	743.1	737.3	30- 35	221.9	929.6	27.02
40	648.8	675.5	697.1	674.9	648.2	671.1	692.6	672.8	35- 40	233.6	1163	33.81
45	585.2	609.8	644.9	609.5	584.6	605.4	640.0	607.2	40- 45	237.7	1401	40.72
50	517.8	544.3	576.4	543.7	517.0	539.7	570.8	541.4	45- 50	233.9	1635	47.52
55	447.1	478.0	497.0	478.3	447.0	473.7	491.2	474.8	50- 55	221.3	1856	53.95
60	374.1	403.1	417.6	400.7	374.2	395.6	411.6	399.5	55- 60	200.7	2057	59.78
65	300.2	322.7	338.2	320.7	300.1	315.3	332.0	319.0	60- 65	173.7	2231	64.83
70	227.4	245.1	258.8	243.5	226.1	238.1	252.4	241.4	65- 70	142.0	2372	68.96
75	155.5	170.4	196.0	169.1	153.8	163.6	190.3	166.5	70- 75	107.9	2480	72.10
80	88.59	113.1	133.1	112.4	86.82	107.4	128.1	109.5	75- 80	75.09	2556	74.28
85	30.43	59.56	70.18	59.52	29.20	55.16	65.99	56.27	80- 85	44.09	2600	75.56
90	4.497	7.056	7.290	7.673	3.716	3.928	3.854	4.012	85- 90	15.99	2616	76.02
95	9.353	18.91	23.23	20.33	11.69	17.51	20.72	16.92	90- 95	6.180	2622	76.20
100	25.03	31.09	39.16	33.27	28.79	31.39	37.59	30.13	95-100	13.43	2635	76.59
105	45.12	51.00	55.80	53.34	49.43	52.01	55.07	50.18	100-105	22.24	2657	77.24
110	67.69	72.89	78.02	75.23	72.15	74.42	77.48	72.07	105-110	32.56	2690	78.19
115	91.37	95.61	100.9	97.98	95.78	97.58	100.5	94.81	110-115	43.00	2733	79.44
120	115.6	118.5	123.9	121.0	119.6	120.9	123.5	117.8	115-120	52.55	2786	80.96
125	140.0	142.0	146.8	144.6	143.5	144.6	146.5	141.5	120-125	60.76	2846	82.73
130	164.3	166.4	169.4	169.1	167.2	169.2	169.2	166.0	125-130	67.30	2914	84.69
135	188.2	187.7	191.9	190.2	190.6	190.1	191.9	187.1	130-135	71.88	2985	86.78
140	211.5	209.4	214.5	211.5	213.3	211.3	214.6	208.7	135-140	74.21	3060	88.93
145	233.5	231.3	232.7	232.7	234.8	232.3	232.4	230.5	140-145	73.90	3134	91.08
150	254.1	253.0	250.8	253.8	254.4	253.2	250.3	251.8	145-150	71.07	3205	93.15
155	272.6	270.3	269.0	270.9	271.5	269.8	268.1	268.8	150-155	65.77	3270	95.06
160	287.9	282.2	287.1	282.7	286.0	281.2	286.0	280.4	155-160	57.93	3328	96.74
165	300.0	292.9	294.3	293.3	297.7	291.4	292.7	290.8	160-165	47.52	3376	98.12
170	308.7	302.2	301.6	302.5	306.2	300.1	299.4	299.8	165-170	35.31	3411	99.15
175	314.1	310.0	308.8	310.2	311.2	307.3	306.1	307.2	170-175	21.85	3433	99.78
180	316.0	316.0	316.0	316.0	312.9	312.9	312.9	312.9	175-180	7.437	3440	100.00

DEG LUMINOUS INTENSITY:cd UNIT:lm

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3491	8052
80	5102	7663
75	6006	7571
70	6650	7568
65	7104	8003
60	7482	8352
55	7795	8665
50	8055	8967
45	8276	9121

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Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
Humidity:65.0%
Test Distance:18.000m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.6V I:0.2155A P:44.51W PF:0.9362 Lamp Flux:3440.5x1 lm														
NAME: Double-sided panel light					TYPE:SL-PAN-45W-PW-UD					WEIGHT:				
DIMENSION:					SPECIFICATION:					SERIAL No.:CZ130301				
MANUFACTURER: Sheenly Lighting Co., Ltd					SURFACE:					PROTECTION ANGLE:				

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.300	.171	.054	.286	.163	.052	.259	.149	.047	.234	.135	.043	.212	.123	.040	
2.0	.280	.153	.047	.267	.147	.045	.243	.135	.042	.220	.124	.039	.200	.113	.036	
3.0	.258	.138	.041	.247	.132	.040	.225	.122	.037	.204	.112	.034	.186	.103	.032	
4.0	.238	.124	.036	.228	.119	.035	.208	.110	.033	.189	.102	.031	.172	.094	.028	
5.0	.221	.112	.033	.211	.108	.032	.193	.100	.030	.176	.093	.028	.160	.085	.026	
6.0	.205	.103	.029	.196	.099	.028	.179	.092	.027	.164	.085	.025	.149	.078	.023	
7.0	.191	.094	.027	.183	.091	.026	.167	.085	.024	.153	.078	.023	.139	.072	.021	
8.0	.178	.087	.024	.171	.084	.024	.157	.078	.022	.143	.073	.021	.131	.067	.020	
9.0	.167	.081	.023	.160	.078	.022	.147	.073	.021	.135	.068	.019	.123	.063	.018	
10.0	.157	.075	.021	.151	.073	.020	.139	.068	.019	.127	.063	.018	.116	.058	.017	

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	.373	.373	.373	.319	.319	.319	.218	.218	.218	.125	.125	.125	.040	.040	.040	
1.0	.364	.340	.319	.311	.292	.275	.213	.201	.190	.123	.116	.111	.039	.037	.036	
2.0	.356	.317	.285	.305	.273	.246	.209	.189	.172	.121	.110	.101	.039	.036	.033	
3.0	.349	.301	.262	.299	.259	.227	.205	.180	.160	.119	.105	.094	.038	.034	.031	
4.0	.341	.288	.247	.293	.249	.215	.201	.173	.151	.117	.102	.089	.038	.033	.029	
5.0	.334	.278	.237	.287	.241	.206	.198	.168	.145	.115	.099	.086	.037	.032	.028	
6.0	.328	.270	.229	.282	.234	.199	.194	.164	.141	.113	.096	.084	.036	.031	.028	
7.0	.321	.264	.223	.276	.228	.195	.191	.160	.138	.111	.094	.082	.036	.031	.027	
8.0	.315	.258	.219	.271	.224	.191	.188	.157	.135	.109	.093	.081	.035	.030	.027	
9.0	.309	.253	.216	.267	.220	.188	.185	.155	.134	.108	.091	.080	.035	.030	.026	
10.0	.304	.249	.213	.262	.217	.186	.182	.152	.132	.106	.090	.079	.034	.030	.026	

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 Humidity:65.0%
 Test Distance:18.000m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:220.6V I:0.2155A P:44.51W PF:0.9362 Lamp Flux:3440.5x1 lm										
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DIMENSION:					SPECIFICATION:			SERIAL No.:CZ130301		
MANUFACTURER: Sheenly Lighting Co., Ltd					SURFACE:			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	18.6	19.8	19.2	20.4	21.0	19.1	20.3	19.6	20.8	21.5
3H	19.9	21.0	20.5	21.6	22.3	20.5	21.6	21.1	22.2	22.9
4H	20.4	21.5	21.1	22.1	22.8	21.2	22.2	21.8	22.8	23.5
6H	20.8	21.7	21.4	22.4	23.1	21.7	22.7	22.4	23.3	24.1
8H	20.9	21.8	21.5	22.4	23.2	21.9	22.8	22.6	23.5	24.3
12H	20.9	21.8	21.5	22.4	23.2	22.1	23.0	22.8	23.6	24.4
4H 2H	19.1	20.2	19.8	20.8	21.5	19.5	20.5	20.1	21.2	21.9
3H	20.7	21.6	21.3	22.2	23.0	21.1	22.0	21.8	22.7	23.5
4H	21.3	22.1	22.0	22.8	23.6	21.9	22.7	22.6	23.4	24.2
6H	21.7	22.4	22.4	23.1	24.0	22.6	23.3	23.3	24.0	24.9
8H	21.8	22.5	22.6	23.2	24.1	22.9	23.5	23.6	24.3	25.1
12H	21.9	22.5	22.6	23.2	24.1	23.1	23.7	23.9	24.5	25.3
8H 4H	21.5	22.2	22.2	22.9	23.7	22.1	22.7	22.8	23.4	24.3
6H	22.1	22.6	22.9	23.4	24.3	22.9	23.5	23.7	24.2	25.1
8H	22.3	22.8	23.1	23.5	24.5	23.3	23.8	24.1	24.6	25.5
12H	22.4	22.8	23.2	23.6	24.5	23.7	24.1	24.5	24.9	25.8
12H 4H	21.5	22.1	22.3	22.9	23.7	22.1	22.6	22.8	23.4	24.3
6H	22.2	22.6	22.9	23.4	24.3	23.0	23.4	23.7	24.2	25.1
8H	22.4	22.8	23.2	23.6	24.5	23.4	23.8	24.2	24.6	25.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 3441 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.3)

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UTILIZATION FACTORS TABLE

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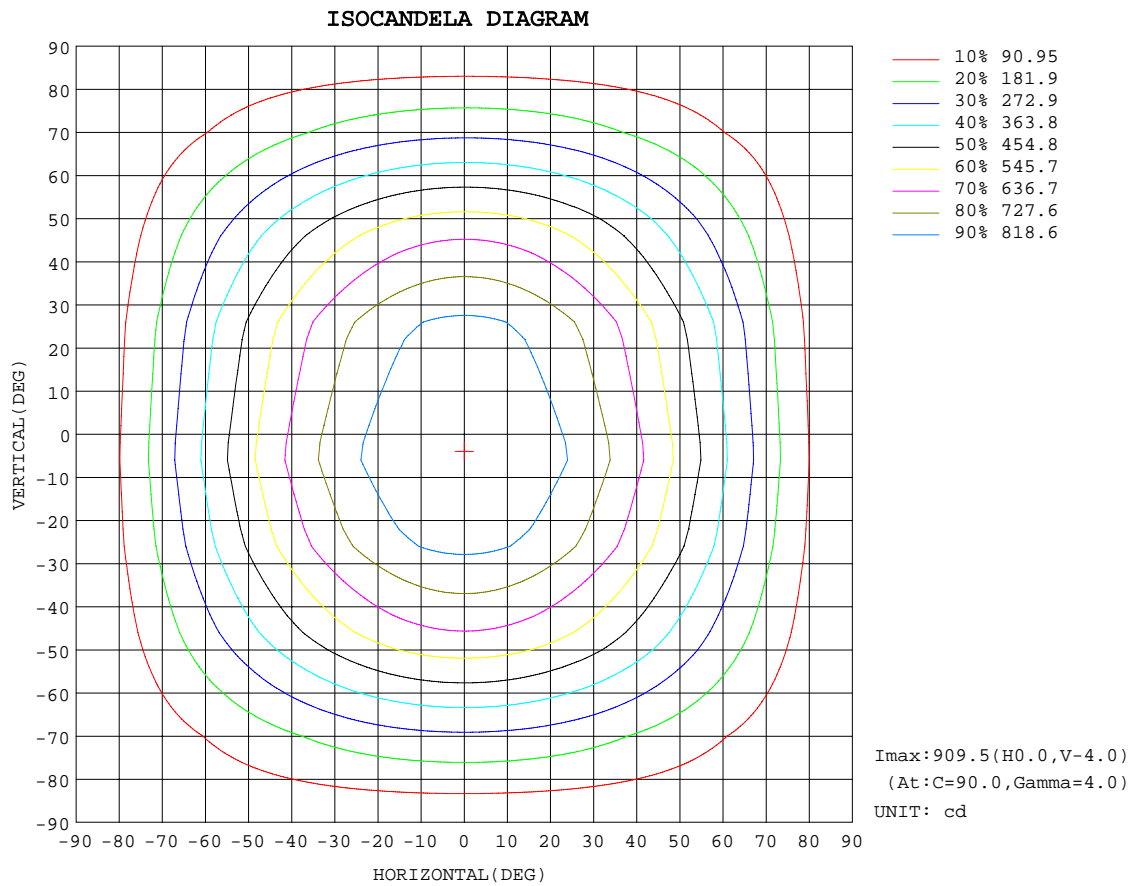
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	51	40	33	49	39	32	47	37	31	24
0.80	61	49	42	59	48	41	55	46	39	31
1.00	69	57	50	66	56	49	62	55	47	38
1.25	76	65	58	73	63	56	67	59	54	43
1.50	81	71	63	78	68	62	71	64	59	47
2.00	88	79	72	84	76	70	77	71	66	53
2.50	92	84	77	88	81	75	80	75	70	56
3.00	95	88	82	91	85	80	83	78	74	59
4.00	100	94	89	95	90	85	87	83	79	63
5.00	102	97	93	97	93	89	89	85	82	65
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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ISOCANDELA DIAGRAM

Test:U:220.6V I:0.2155A P:44.51W PF:0.9362 Lamp Flux:3440.5x1 lm		
NAME: Double-sided panel light	TYPE:SL-PAN-45W-PW-UD	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:CZ130301
MANUFACTURER: Sheenly Lighting Co., Ltd	SURFACE:	PROTECTION ANGLE:

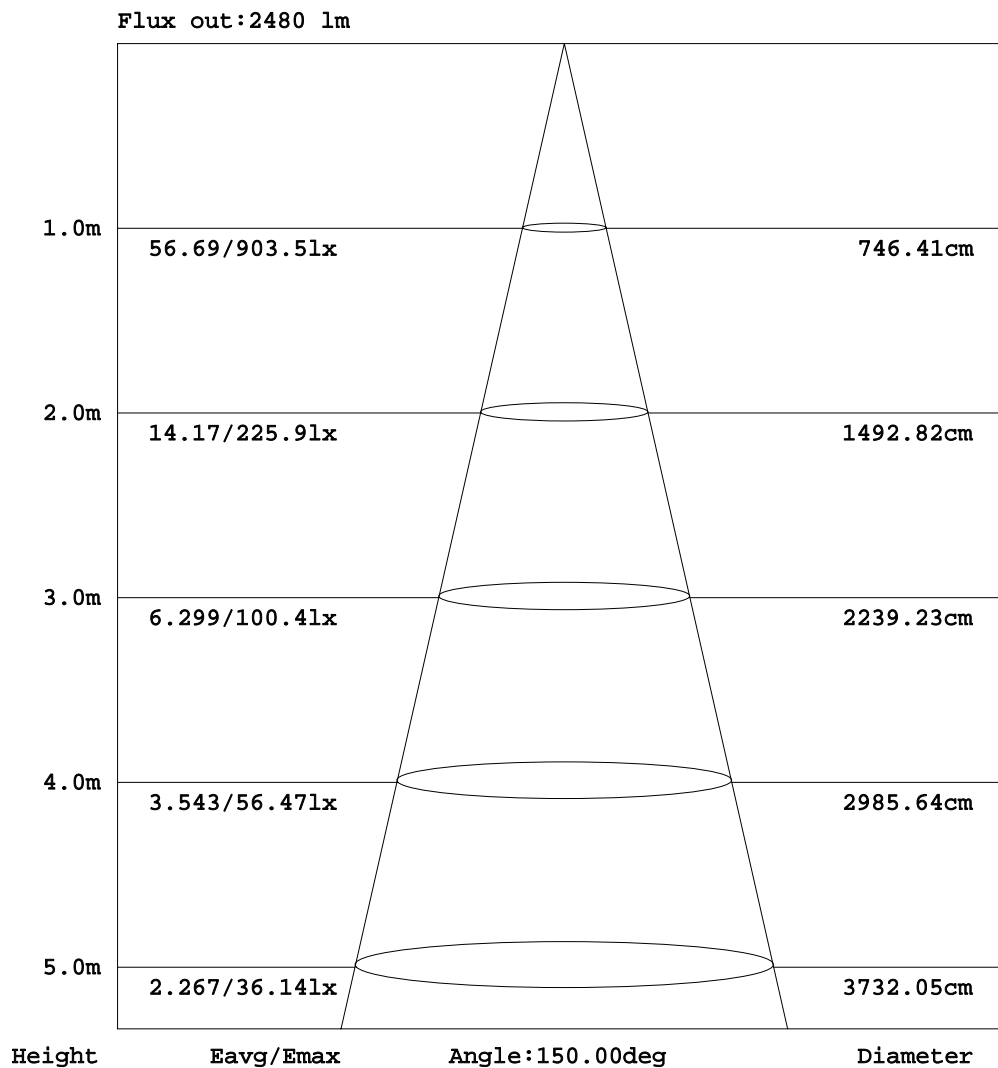


C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:jwx
 Test Date:2013-03-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
 Humidity:65.0%
 Test Distance:18.000m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.6V I:0.2155A P:44.51W PF:0.9362 Lamp Flux:3440.5x1 lm		
NAME: Double-sided panel light	TYPE:SL-PAN-45W-PW-UD	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:CZ130301
MANUFACTURER: Sheenly Lighting Co., Ltd	SURFACE:	PROTECTION ANGLE:



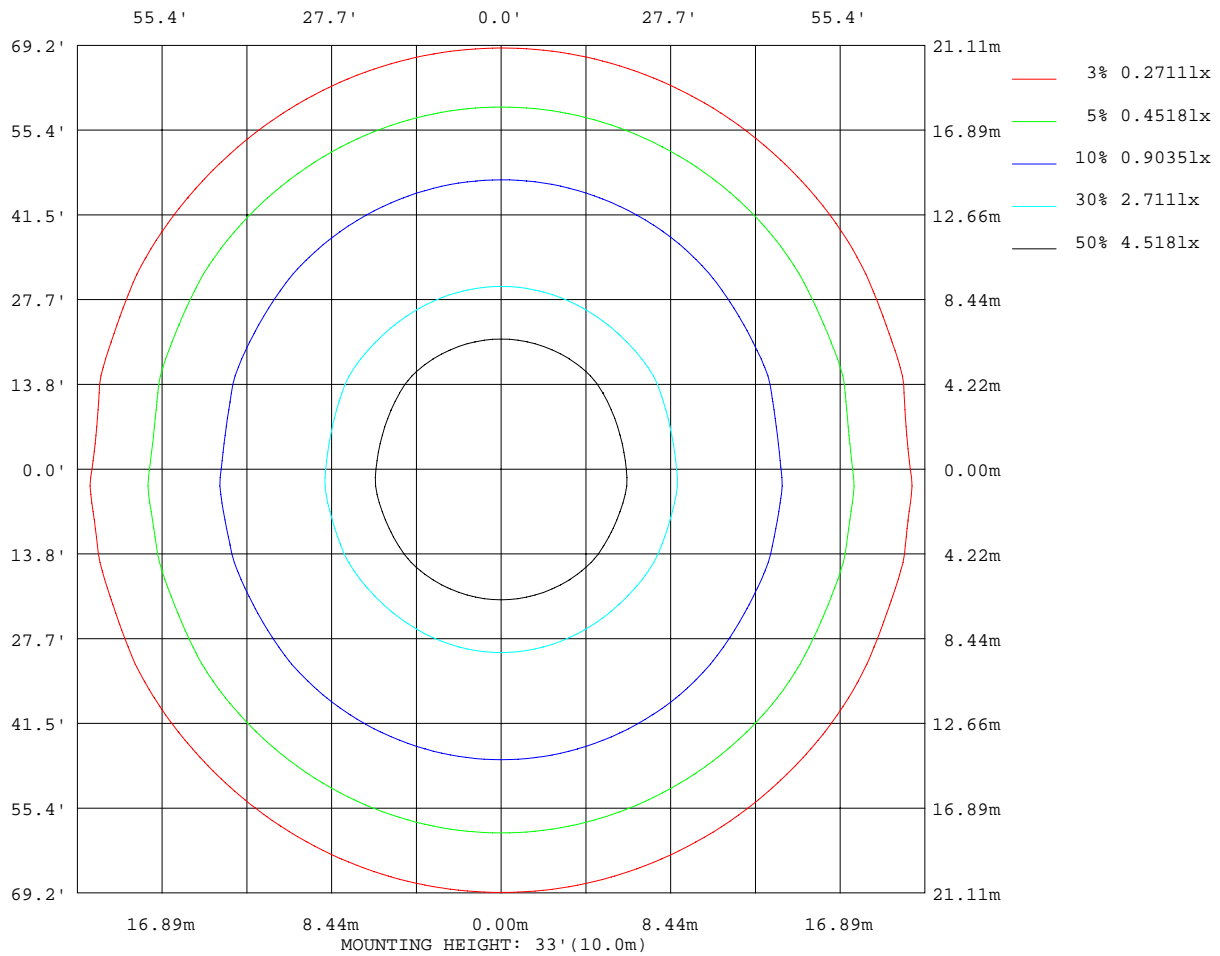
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:jwx
 Test Date:2013-03-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
 Humidity:65.0%
 Test Distance:18.000m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.6V I:0.2155A P:44.51W PF:0.9362 Lamp Flux:3440.5x1 lm		
NAME: Double-sided panel light	TYPE:SL-PAN-45W-PW-UD	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:CZ130301
MANUFACTURER: Sheenly Lighting Co., Ltd	SURFACE:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:jwx
 Test Date:2013-03-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
 Humidity:65.0%
 Test Distance:18.000m [K=1.0000]
 Remarks:

Average Luminance Table(CIBSE)

Test:U:220.6V I:0.2155A P:44.51W PF:0.9362 Lamp Flux:3440.5x1 lm		
NAME: Double-sided panel light	TYPE:SL-PAN-45W-PW-UD	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:CZ130301
MANUFACTURER: Sheenly Lighting Co., Ltd	SURFACE:	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	3440.5	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.1	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G deg	C plane(deg)																		
	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	7795	7862	8057	8012	8211	8417	8525	8594	8648	8665	8641	8582	8510	8392	8219	8010	8022	7852	7794
60	7482	7559	7661	7757	7990	8097	8175	8265	8331	8352	8323	8252	8154	8054	7963	7763	7636	7540	7484
65	7104	7224	7253	7483	7591	7690	7812	7909	7981	8003	7972	7893	7779	7647	7543	7469	7235	7191	7102
70	6650	6830	6888	7005	7102	7235	7373	7480	7548	7568	7537	7461	7343	7195	7052	6939	6850	6803	6611
75	6006	6120	6304	6394	6516	6722	7091	7358	7519	7571	7510	7342	7065	6683	6459	6327	6250	6069	5942
80	5102	5364	5505	5645	6247	6748	7147	7433	7604	7663	7602	7425	7131	6720	6195	5568	5432	5281	5000
85	3491	4209	5022	5896	6554	7084	7505	7800	7981	8052	7998	7820	7521	7092	6533	5832	4927	4087	3351

Table 2. Average Luminance(cd/sq.m.) for defined C plane,Gamma angle

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum	specified	maximum	specified
		calculated	maximum	measured	maximum
Category 1	55 to 90	8665	500		1500
Category 2	65 to 90	8052	500		1500
Category 3	75 to 90	8052	500		1500

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:jwx
 Test Date:2013-03-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
 Humidity:65.0%
 Test Distance:18.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.2155A P:44.51W PF:0.9362 Lamp Flux:3440.5x1 lm		
NAME: Double-sided panel light	TYPE:SL-PAN-45W-PW-UD	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:CZ130301
MANUFACTURER: Sheenly Lighting Co., Ltd	SURFACE:	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	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900
5	897	898	899	900	901	902	903	904	905	906	907	908	908	908	908	909	909	909	909
10	885	887	889	892	895	897	897	898	898	897	897	896	896	896	896	896	895	895	896
15	865	869	873	877	878	879	877	876	876	876	876	876	877	878	878	879	879	879	880
20	838	843	848	851	850	848	848	848	849	850	852	854	856	858	860	861	862	863	863
25	802	808	814	814	812	811	812	813	816	820	824	828	832	836	840	842	843	844	844
30	758	766	772	768	767	767	770	774	779	785	792	796	797	796	797	797	797	797	797
35	707	717	718	715	715	717	722	729	737	740	739	739	740	742	743	745	746	747	747
40	649	660	658	655	657	662	670	676	675	675	677	680	683	686	690	693	695	697	697
45	585	596	592	591	595	603	607	606	607	610	614	619	625	631	636	641	643	644	645
50	518	528	523	524	530	535	533	535	539	544	551	559	564	567	570	573	575	576	576
55	447	455	451	455	462	458	460	464	471	478	483	487	489	491	493	495	496	497	497
60	374	379	378	385	383	384	388	395	399	403	405	407	409	411	413	415	417	417	418
65	300	303	305	308	307	311	316	320	321	323	325	328	330	332	334	336	337	338	338
70	227	229	234	231	236	239	240	241	243	245	247	250	252	254	256	257	258	259	259
75	155	157	158	162	163	164	165	167	169	170	174	179	184	187	190	193	195	196	196
80	88.6	92.1	93.1	94.4	95.6	96.6	98.0	103	108	113	117	121	124	127	129	131	132	133	133
85	30.4	34.4	36.7	38.5	43.8	48.0	51.4	54.4	57.1	59.6	61.7	63.7	65.4	66.9	68.0	68.9	69.6	70.0	70.2
90	4.50	7.01	7.01	7.11	7.22	7.17	7.15	7.11	7.07	7.06	7.04	7.06	7.10	7.10	7.07	7.08	7.11	7.21	7.29
95	9.35	10.5	12.1	12.6	13.0	14.5	15.8	17.0	18.0	18.9	19.7	20.4	21.1	21.6	22.1	22.5	22.9	23.2	23.2
100	25.0	25.4	26.5	27.5	28.4	29.1	29.4	29.6	30.2	31.1	32.6	34.0	35.2	36.2	37.1	37.9	38.6	39.1	39.2
105	45.1	45.2	45.3	46.5	47.2	48.2	49.1	49.8	50.5	51.0	51.5	52.1	52.6	53.1	53.7	54.6	55.3	55.8	55.8
110	67.7	66.7	67.3	67.7	68.9	69.4	70.4	71.3	72.1	72.9	73.6	74.4	75.1	75.8	76.5	77.2	77.7	78.0	78.0
115	91.4	89.6	91.6	90.4	91.3	92.6	92.9	93.7	94.8	95.6	96.4	97.2	98.0	98.8	99.5	100	101	101	101
120	116	113	114	115	114	115	117	117	118	119	119	120	121	122	123	123	124	124	124
125	140	137	138	140	138	138	139	141	142	142	143	143	144	145	146	147	147	147	147
130	164	161	161	163	163	162	162	163	165	166	167	167	168	168	169	169	169	169	169
135	188	185	184	185	187	187	186	186	187	188	189	190	191	192	192	192	192	192	192
140	211	208	207	207	209	211	210	209	209	209	210	211	212	213	213	214	214	214	214
145	234	231	229	228	229	231	233	233	232	231	231	231	232	232	232	232	232	233	233
150	254	251	250	249	249	249	251	253	254	253	252	252	251	251	251	251	251	251	251
155	273	270	268	267	267	267	267	268	269	270	272	271	271	270	270	269	269	269	269
160	288	286	284	283	282	281	281	281	282	282	283	284	284	285	286	286	287	287	287
165	300	298	297	296	295	294	293	293	293	293	293	293	293	294	294	294	294	294	294
170	309	308	306	306	305	304	303	303	303	302	302	302	302	302	302	302	302	302	302
175	314	313	313	312	312	311	311	311	310	310	310	309	309	309	309	309	309	309	309
180	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:jwx
 Test Date:2013-03-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
 Humidity:65.0%
 Test Distance:18.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.2155A P:44.51W PF:0.9362 Lamp Flux:3440.5x1 lm		
NAME: Double-sided panel light	TYPE:SL-PAN-45W-PW-UD	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:CZ130301
MANUFACTURER: Sheenly Lighting Co., Ltd	SURFACE:	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	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900
5	909	909	909	909	909	909	908	908	907	905	904	903	902	901	900	899	898	897	896
10	896	896	896	896	896	896	896	897	897	898	898	898	897	895	892	889	887	885	883
15	879	879	879	878	878	877	876	876	876	876	876	877	879	878	877	873	869	865	862
20	863	862	861	860	858	856	854	852	850	848	848	848	848	850	851	848	843	838	834
25	844	843	842	840	836	832	828	823	820	816	813	812	811	812	814	814	808	802	797
30	797	797	797	796	796	796	795	792	785	779	773	769	767	766	768	771	766	758	752
35	747	746	745	743	742	740	739	739	739	736	729	722	717	714	714	718	716	706	699
40	697	695	693	690	686	683	679	676	675	675	675	669	661	656	655	658	660	648	641
45	644	643	640	636	630	625	619	614	609	606	606	607	602	594	590	592	596	585	577
50	576	574	572	570	567	563	558	551	544	539	534	533	534	529	523	522	528	517	509
55	497	496	494	492	490	488	485	481	478	471	464	459	458	460	453	450	455	447	439
60	417	416	415	413	410	408	405	403	401	398	395	388	383	382	383	377	380	374	366
65	338	337	335	334	331	329	326	323	321	319	317	316	311	306	306	304	303	300	293
70	259	258	257	255	253	251	249	246	243	241	239	237	238	234	230	233	228	226	221
75	196	194	193	190	187	183	178	173	169	167	165	164	163	162	160	157	156	154	152
80	133	132	131	129	127	124	121	117	112	108	102	96.7	95.2	94.3	93.0	91.7	90.5	86.8	86.2
85	70.1	69.7	69.0	68.2	67.0	65.5	63.8	61.8	59.5	56.9	54.0	50.8	47.3	42.9	37.6	35.6	33.2	29.2	27.0
90	7.34	7.45	7.47	7.52	7.61	7.65	7.67	7.69	7.67	7.62	7.53	7.43	7.28	7.11	6.95	6.95	6.92	3.72	3.74
95	23.3	23.3	23.0	22.8	22.4	22.0	21.5	21.0	20.3	19.6	18.7	17.7	16.6	15.3	14.9	14.3	12.7	11.7	11.4
100	39.2	39.1	38.6	38.0	37.3	36.5	35.6	34.5	33.3	32.6	32.3	32.3	32.0	31.5	30.7	30.0	29.1	28.8	28.2
105	55.8	55.8	55.3	54.7	54.4	54.2	53.9	53.6	53.3	53.0	52.6	52.1	51.5	50.8	50.6	49.7	49.8	49.4	49.0
110	78.1	78.1	77.8	77.5	77.1	76.7	76.2	75.7	75.2	74.7	74.2	73.6	73.0	73.0	72.3	72.0	71.6	72.1	70.9
115	101	101	101	100	100	99.5	99.0	98.5	98.0	97.4	96.7	96.4	96.6	95.6	95.0	96.4	94.7	95.8	93.8
120	124	124	124	124	123	123	122	122	121	121	120	121	119	118	119	119	118	120	117
125	147	147	147	147	146	146	145	145	145	145	145	143	142	142	144	142	142	143	141
130	169	169	169	169	169	169	169	169	169	168	166	166	166	167	167	165	166	167	165
135	192	192	192	192	192	192	192	191	190	189	189	189	190	191	189	188	189	191	188
140	214	214	214	214	213	213	212	212	212	212	212	213	214	212	211	211	212	213	210
145	233	233	232	232	232	232	232	232	233	234	235	236	234	232	232	232	234	235	232
150	251	251	251	251	251	252	252	253	254	255	254	252	251	251	251	252	254	254	252
155	269	269	269	270	270	271	272	272	271	270	269	268	268	268	269	270	272	271	269
160	287	287	286	286	285	285	284	283	283	282	282	282	282	283	284	285	287	286	284
165	294	294	294	294	294	294	293	293	293	293	294	294	295	295	296	297	299	298	296
170	302	302	302	302	302	302	302	302	303	303	303	304	304	305	306	307	308	306	305
175	309	309	309	309	309	309	310	310	310	310	311	311	312	312	313	313	314	311	311
180	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	316	313	313

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:jwx
 Test Date:2013-03-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
 Humidity:65.0%
 Test Distance:18.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.2155A P:44.51W PF:0.9362 Lamp Flux:3440.5x1 lm		
NAME: Double-sided panel light	TYPE:SL-PAN-45W-PW-UD	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:CZ130301
MANUFACTURER: Sheenly Lighting Co., Ltd	SURFACE:	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	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900
5	895	894	893	892	892	891	891	890	890	890	890	890	889	889	889	889	889	889	889
10	881	880	879	878	877	877	877	877	877	877	877	877	877	878	878	878	878	878	878
15	860	858	857	856	856	857	857	858	859	861	862	863	864	865	866	867	867	866	866
20	831	829	828	828	829	831	833	836	839	842	845	848	850	852	854	855	855	855	854
25	793	792	792	793	796	799	804	809	815	820	826	831	835	838	839	840	840	840	839
30	748	747	748	752	757	763	770	779	787	791	793	793	793	793	793	794	794	794	794
35	696	696	699	704	712	722	732	736	735	735	736	738	739	741	742	743	743	743	742
40	638	639	644	652	664	672	671	671	673	675	678	682	685	688	690	692	693	692	691
45	575	578	585	597	604	602	603	605	609	614	620	626	631	636	638	639	640	640	638
50	508	513	524	531	529	531	535	540	546	553	558	561	564	567	569	570	571	571	570
55	439	447	458	455	456	460	467	474	476	480	482	484	487	488	490	491	491	491	490
60	369	380	379	380	384	391	393	396	397	399	402	404	407	408	410	411	412	412	411
65	299	303	303	307	311	313	314	315	318	320	323	325	327	329	331	332	332	332	331
70	230	227	231	233	233	234	236	238	240	243	245	247	249	250	251	252	252	252	252
75	154	157	158	159	160	161	162	164	167	172	177	181	184	187	189	190	190	190	189
80	86.0	88.3	90.3	91.0	92.2	97.7	103	107	112	115	119	121	124	126	127	128	128	128	127
85	30.7	33.5	39.0	43.4	46.9	49.9	52.7	55.2	57.4	59.4	61.1	62.6	63.8	64.7	65.4	65.8	66.0	65.9	65.6
90	3.84	3.85	3.93	3.90	3.91	3.92	3.93	3.93	3.95	3.90	3.91	3.97	3.99	3.97	3.92	3.82	3.85	3.89	3.87
95	11.9	12.2	12.4	13.6	14.7	15.8	16.7	17.5	18.2	18.8	19.4	19.8	20.2	20.5	20.7	20.7	20.7	20.7	20.5
100	28.6	28.8	29.3	29.7	30.0	30.1	30.6	31.4	32.7	33.9	34.9	35.8	36.5	37.1	37.5	37.6	37.6	37.5	37.2
105	48.6	49.3	49.4	49.9	50.5	51.1	51.5	52.0	52.5	52.9	53.3	53.7	54.1	54.6	55.1	55.1	55.1	54.9	54.7
110	71.1	71.3	72.0	72.0	72.6	73.2	73.8	74.4	75.0	75.6	76.1	76.6	77.1	77.4	77.6	77.6	77.5	77.4	77.2
115	95.6	94.1	94.9	95.8	95.7	96.1	96.9	97.6	98.1	98.7	99.3	99.8	100	100	101	101	101	100	100
120	118	118	118	119	120	120	120	121	122	122	123	123	123	124	124	124	124	123	123
125	141	144	142	142	143	144	145	145	145	145	146	146	147	147	147	147	147	146	146
130	164	166	167	165	165	166	168	169	169	169	169	169	169	169	169	169	169	169	169
135	187	188	190	190	189	189	189	190	191	193	193	193	192	192	192	192	192	192	192
140	209	209	211	214	212	212	211	211	212	212	213	213	214	214	215	215	215	214	214
145	231	230	231	233	235	234	233	232	232	232	232	232	232	232	232	232	232	232	232
150	250	249	249	250	251	253	255	253	252	252	251	251	251	251	250	250	250	250	250
155	267	266	266	266	266	267	268	270	271	271	270	270	269	269	268	268	268	268	268
160	282	281	281	280	280	280	281	281	282	283	283	284	285	285	286	286	286	286	285
165	295	294	293	292	292	291	291	291	291	292	292	292	292	293	293	293	293	293	292
170	304	303	302	302	301	301	300	300	300	300	300	300	300	300	299	299	299	299	299
175	310	310	309	309	308	308	308	307	307	307	307	306	306	306	306	306	306	306	306
180	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:jwx
 Test Date:2013-03-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
 Humidity:65.0%
 Test Distance:18.000m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.2155A P:44.51W PF:0.9362 Lamp Flux:3440.5x1 lm		
NAME: Double-sided panel light	TYPE:SL-PAN-45W-PW-UD	WEIGHT:
DIMENSION:	SPECIFICATION:	SERIAL No.:CZ130301
MANUFACTURER: Sheenly Lighting Co., Ltd	SURFACE:	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	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900				
5	889	889	889	890	890	890	890	891	891	892	893	893	894	895	896				
10	878	877	877	877	877	877	877	877	877	877	878	879	880	881	883				
15	865	865	863	862	861	860	858	858	857	857	857	857	859	860	863				
20	853	851	848	845	842	839	836	834	831	830	828	829	829	831	834				
25	838	836	831	826	821	815	810	805	800	796	794	792	792	794	797				
30	793	793	793	794	792	789	780	771	764	758	753	749	748	749	752				
35	741	740	738	737	736	736	737	734	723	714	706	700	697	697	700				
40	689	686	683	680	676	674	673	673	674	665	654	645	640	639	642				
45	636	632	627	621	616	611	607	605	604	606	599	587	579	576	578				
50	568	566	563	560	555	548	541	536	532	531	533	526	515	510	510				
55	489	488	486	485	483	479	475	468	462	458	457	461	450	441	440				
60	410	408	406	405	403	401	399	396	392	386	382	382	384	371	367				
65	330	329	327	325	323	321	319	317	317	314	309	305	307	302	295				
70	251	250	249	247	245	243	241	240	238	237	236	234	230	233	223				
75	188	185	182	179	175	170	166	165	164	163	162	161	160	157	154				
80	126	125	123	120	117	113	109	105	100	95.2	94.1	93.2	91.1	88.6	88.2				
85	65.0	64.2	63.2	61.8	60.2	58.3	56.3	53.9	51.3	48.5	45.2	41.2	36.0	33.1	28.8				
90	3.89	3.90	3.98	3.99	4.01	4.01	4.01	4.00	4.05	4.07	4.15	4.25	4.28	4.19	4.16				
95	20.2	19.8	19.4	18.9	18.3	17.7	16.9	16.1	15.1	14.0	12.8	11.4	11.0	10.5	9.63				
100	36.6	35.8	35.0	34.0	32.8	31.6	30.1	29.2	28.6	28.4	28.0	27.3	26.3	25.4	24.6				
105	53.9	53.1	52.5	52.0	51.4	50.8	50.2	49.6	48.8	48.1	47.3	46.3	45.6	44.4	44.4				
110	76.7	76.0	75.3	74.5	73.7	72.9	72.1	71.2	70.3	69.5	68.6	68.1	66.9	66.3	65.8				
115	99.8	99.1	98.3	97.4	96.5	95.6	94.8	93.9	92.9	92.1	91.9	90.6	89.4	90.5	88.6				
120	123	122	122	121	120	119	118	117	116	116	115	113	114	113	112				
125	146	146	145	144	143	142	142	141	141	139	137	137	139	136	136				
130	169	169	168	167	167	166	166	164	163	161	161	162	161	160	160				
135	192	192	191	191	190	189	187	186	185	185	186	186	184	183	183				
140	214	213	212	211	211	210	209	208	208	209	210	207	205	205	207				
145	232	231	231	231	231	230	230	231	231	232	229	227	227	227	228				
150	250	250	250	250	251	251	252	253	251	249	248	247	247	247	249				
155	268	269	269	269	270	270	269	267	266	265	265	264	265	266	268				
160	285	284	284	283	282	281	280	280	279	279	279	280	280	281	283				
165	292	292	292	291	291	291	291	291	291	291	291	292	293	294	295				
170	299	299	299	299	299	300	300	300	300	301	301	302	303	304	305				
175	306	306	306	307	307	307	307	307	308	308	308	309	309	310	310				
180	313	313	313	313	313	313	313	313	313	313	313	313	313	313	313				

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:jwx
 Test Date:2013-03-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257
 Humidity:65.0%
 Test Distance:18.000m [K=1.0000]
 Remarks: