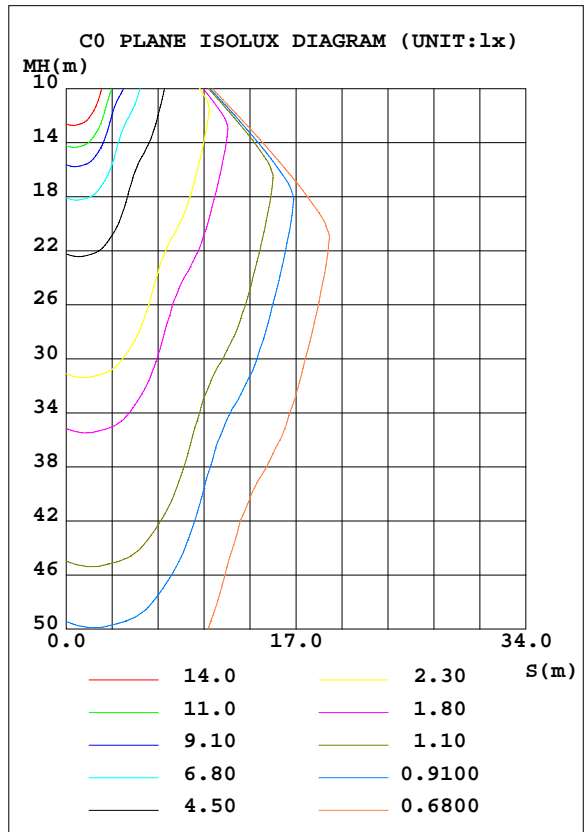
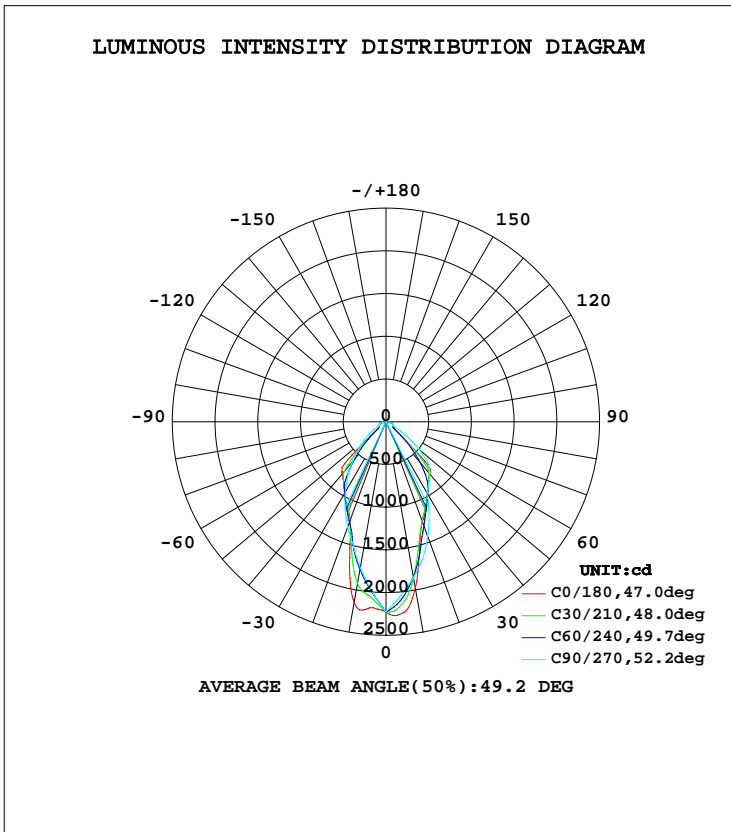


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.78 lm/W			
MODEL	30W	I <sub>max</sub> (cd)	2272	S/MH(C0/180)	0.67
NOMINAL POWER(W)	28	LOR(%)	100.0	S/MH(C90/270)	0.71
RATED VOLTAGE(V)		TOTAL FLUX(lm)	2321.9	η UP, DN(C0-180)	0.0,51.7
NOMINAL FLUX(lm)	2321.88	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,48.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)		η down(%)	100.0	CIBSE SHR MAX	0.75



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jacky  
 Test Date:2014-11-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:10.641m [K=1.0000]  
 Remarks:

# DL-240CB-30W White

## ZONAL FLUX DIAGRAM:

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	SUR.:	PROTECTION ANGLE:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum,lamp
5	2250	2109	2037	2053	2186	2016	1980	2071	0- 5	51.02	51.02	2.2,2.2
10	1979	1852	1849	1889	2152	1829	1734	1793	5- 10	141.2	192.2	8.28,8.28
15	1520	1513	1660	1592	1641	1532	1489	1461	10- 15	201.1	393.3	16.9,16.9
20	1247	1262	1427	1274	1226	1246	1310	1224	15- 20	228.1	621.5	26.8,26.8
25	1111	1109	1194	1106	1089	1095	1131	1092	20- 25	247.8	869.3	37.4,37.4
30	970.0	978.1	960.5	980.3	972.8	971.2	952.2	963.8	25- 30	261.3	1131	48.7,48.7
35	867.9	869.4	877.1	869.6	865.2	871.1	782.6	863.2	30- 35	266.0	1397	60.2,60.2
40	795.2	765.4	793.7	763.1	796.4	771.7	613.1	763.8	35- 40	261.2	1658	71.4,71.4
45	584.0	539.1	710.3	539.8	636.6	544.9	443.5	538.6	40- 45	229.8	1888	81.3,81.3
50	110.5	315.4	506.4	316.2	114.5	315.5	327.7	304.3	45- 50	135.9	2024	87.2,87.2
55	104.4	104.2	302.5	105.7	105.0	105.2	211.9	103.9	50- 55	73.99	2098	90.3,90.3
60	99.90	96.83	98.56	96.68	94.29	96.92	96.12	97.97	55- 60	54.38	2152	92.7,92.7
65	88.94	89.95	92.08	88.77	86.10	88.97	88.31	91.61	60- 65	45.16	2197	94.6,94.6
70	85.68	81.83	85.60	80.46	82.88	79.68	80.50	81.29	65- 70	43.35	2240	96.5,96.5
75	75.56	70.23	79.12	69.76	76.14	66.74	72.69	66.73	70- 75	40.86	2281	98.3,98.3
80	52.79	47.51	0	47.85	54.16	44.08	0	42.52	75- 80	30.00	2311	99.5,99.5
85	7.365	0	0	0	14.04	0	0	0	80- 85	9.747	2321	100,100
90	0.3669	0	0	0	0.2303	0	0	0	85- 90	0.7961	2322	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			

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jacky  
 Test Date:2014-11-26

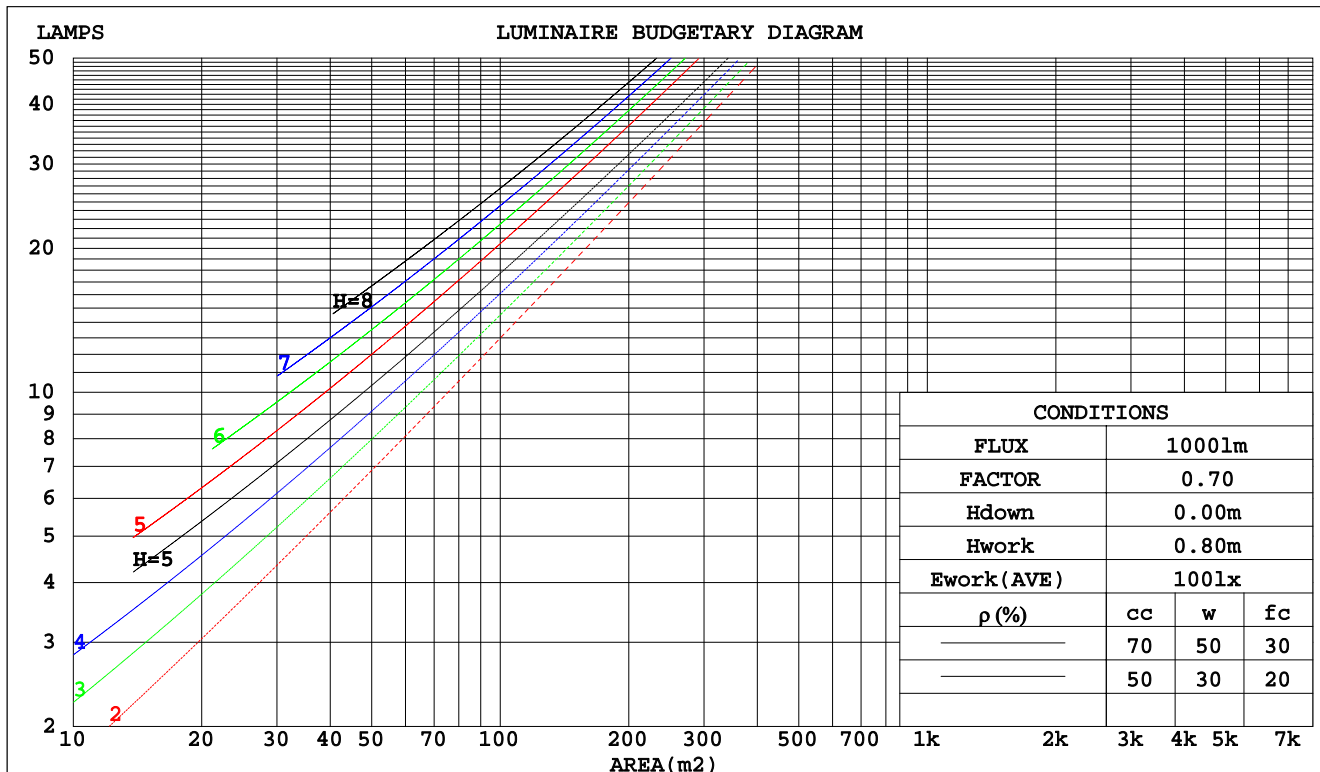
γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:10.641m [K=1.0000]  
 Remarks:

DL-240CB-30W White

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
ρfc																
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	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.99	.97	.98	.96	.94	.95	.93	.92	.90
2.0	.98	.93	.89	.96	.92	.88	.93	.89	.86	.90	.87	.84	.87	.84	.82	.80
3.0	.89	.83	.78	.88	.82	.78	.85	.80	.76	.83	.79	.75	.80	.77	.74	.72
4.0	.82	.75	.70	.81	.74	.69	.78	.73	.68	.76	.71	.68	.74	.70	.67	.65
5.0	.75	.68	.63	.74	.68	.63	.72	.66	.62	.71	.65	.61	.69	.64	.61	.59
6.0	.70	.62	.57	.69	.62	.57	.67	.61	.56	.66	.60	.56	.64	.59	.56	.54
7.0	.64	.57	.52	.64	.57	.52	.62	.56	.52	.61	.56	.51	.60	.55	.51	.50
8.0	.60	.53	.48	.59	.53	.48	.58	.52	.48	.57	.51	.47	.56	.51	.47	.46
9.0	.56	.49	.44	.55	.49	.44	.54	.48	.44	.53	.48	.44	.53	.47	.44	.42
10.0	.52	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.49	.44	.41	.39



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jacky  
 Test Date:2014-11-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:10.641m [K=1.0000]  
 Remarks:

DL-240CB-30W White

WEC AND CCEC

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	SUR.:	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	.228	.129	.041	.221	.126	.040	.208	.119	.038	.196	.113	.036	.185	.107	.035	
2.0	.218	.119	.037	.212	.117	.036	.201	.112	.035	.191	.107	.033	.181	.103	.032	
3.0	.205	.109	.033	.200	.107	.032	.191	.103	.031	.182	.100	.031	.174	.096	.030	
4.0	.193	.100	.030	.189	.099	.029	.180	.096	.029	.173	.093	.028	.165	.090	.027	
5.0	.182	.093	.027	.178	.091	.027	.171	.089	.026	.164	.086	.026	.157	.084	.025	
6.0	.171	.086	.025	.168	.085	.024	.162	.083	.024	.155	.081	.024	.150	.079	.023	
7.0	.162	.080	.023	.159	.079	.023	.153	.077	.022	.148	.076	.022	.143	.074	.022	
8.0	.154	.075	.021	.151	.074	.021	.146	.073	.021	.141	.071	.021	.136	.070	.020	
9.0	.146	.070	.020	.143	.070	.020	.139	.069	.019	.134	.067	.019	.130	.066	.019	
10.0	.139	.066	.018	.136	.066	.018	.132	.065	.018	.128	.064	.018	.124	.063	.018	

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	.175	.157	.141	.149	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
3.0	.162	.132	.107	.139	.114	.092	.095	.079	.064	.055	.046	.038	.018	.015	.012	
4.0	.152	.114	.083	.130	.098	.072	.089	.068	.051	.052	.040	.030	.017	.013	.010	
5.0	.143	.100	.067	.123	.086	.058	.084	.060	.041	.049	.035	.024	.016	.011	.008	
6.0	.135	.089	.054	.116	.077	.047	.080	.054	.033	.046	.031	.020	.015	.010	.007	
7.0	.128	.080	.045	.110	.069	.039	.076	.048	.028	.044	.028	.017	.014	.009	.005	
8.0	.122	.073	.038	.105	.063	.033	.072	.044	.024	.042	.026	.014	.014	.009	.005	
9.0	.116	.067	.033	.100	.058	.029	.069	.041	.020	.040	.024	.012	.013	.008	.004	
10.0	.110	.062	.029	.095	.053	.025	.066	.038	.018	.038	.022	.011	.012	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jacky  
 Test Date:2014-11-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:10.641m [K=1.0000]  
 Remarks:

## DL-240CB-30W White

UGR(Unified Glare Rating) Table

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm										
NAME: DL-240CB-30W White					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:1		
MFR.: ARLight					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	21.1	22.3	21.4	22.5	22.7	22.5	23.7	22.7	23.9	24.1
3H	21.8	22.9	22.1	23.1	23.3	22.9	24.0	23.2	24.2	24.5
4H	22.4	23.4	22.7	23.7	23.9	23.4	24.4	23.7	24.6	24.9
6H	23.0	23.9	23.3	24.2	24.5	23.4	24.4	23.7	24.6	24.9
8H	23.2	24.1	23.5	24.4	24.7	23.4	24.3	23.7	24.6	24.8
12H	23.2	24.1	23.6	24.4	24.7	23.3	24.2	23.7	24.5	24.8
4H 2H	21.2	22.2	21.5	22.4	22.7	22.4	23.5	22.7	23.7	23.9
3H	22.2	23.1	22.5	23.4	23.6	23.1	24.0	23.5	24.3	24.6
4H	23.0	23.8	23.4	24.1	24.5	23.8	24.6	24.1	24.9	25.2
6H	23.8	24.5	24.2	24.9	25.2	23.9	24.6	24.3	25.0	25.3
8H	24.1	24.8	24.5	25.2	25.5	23.8	24.5	24.2	24.9	25.2
12H	24.3	24.9	24.7	25.3	25.6	23.8	24.4	24.2	24.8	25.2
8H 4H	23.3	24.0	23.7	24.3	24.7	24.0	24.7	24.4	25.0	25.4
6H	24.3	24.9	24.8	25.3	25.7	24.2	24.7	24.6	25.1	25.5
8H	24.8	25.3	25.2	25.7	26.1	24.1	24.6	24.6	25.0	25.5
12H	25.0	25.4	25.5	25.9	26.3	24.1	24.5	24.5	24.9	25.4
12H 4H	23.3	23.9	23.7	24.3	24.7	24.0	24.6	24.4	25.0	25.4
6H	24.3	24.8	24.8	25.2	25.7	24.2	24.7	24.7	25.1	25.6
8H	24.8	25.2	25.3	25.6	26.1	24.2	24.6	24.6	25.0	25.5
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.0					+ 0.8 / - 0.8				
1.5H	+ 1.2 / - 1.4					+ 1.6 / - 2.5				
2.0H	+ 2.8 / - 0.7					+ 3.4 / - 2.3				

CIE Pub.117 Corrected 2322 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:Jacky  
Test Date:2014-11-26

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:10.641m [K=1.0000]  
Remarks:

DL-240CB-30W White

**UTILIZATION FACTORS TABLE**

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	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	74	65	60	73	65	60	72	64	60	55
0.80	83	74	69	82	74	69	81	73	69	63
1.00	89	81	76	88	81	76	87	81	75	70
1.25	95	88	83	94	87	82	91	86	81	76
1.50	99	92	87	97	91	86	95	89	85	80
2.00	103	97	93	102	96	92	99	94	90	84
2.50	106	100	96	104	99	95	101	96	93	86
3.00	108	103	99	106	102	98	102	99	96	89
4.00	111	107	104	109	105	102	105	102	99	92
5.00	112	109	106	110	107	105	106	104	102	93
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:Jacky  
 Test Date:2014-11-26

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:10.641m [K=1.0000]  
 Remarks:

# DL-240CB-30W White

## ISOCANDELA DIAGRAM

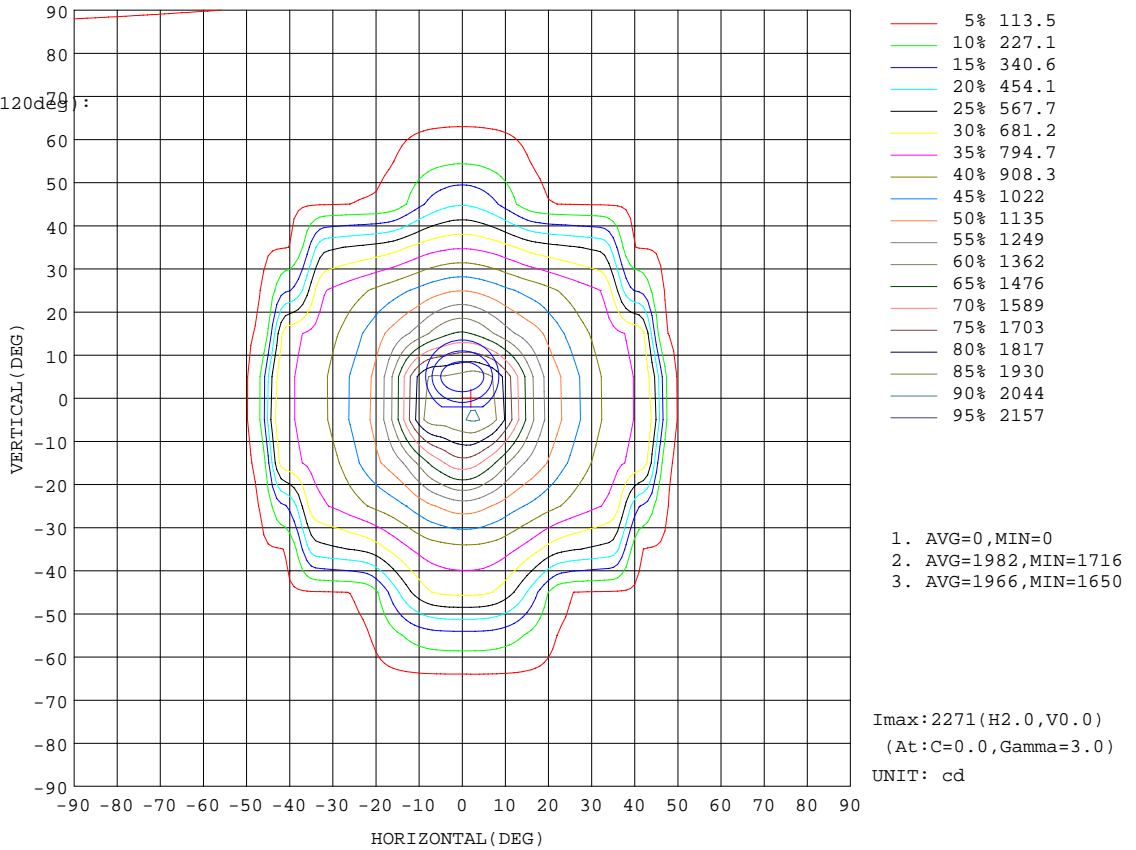
Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1887.7 lm  
 %lum = 81.3%  
 %lamp = 81.3%

Conical surface Flux(120deg):

2152 lm  
 %lum = 92.7%  
 %lamp = 92.7%



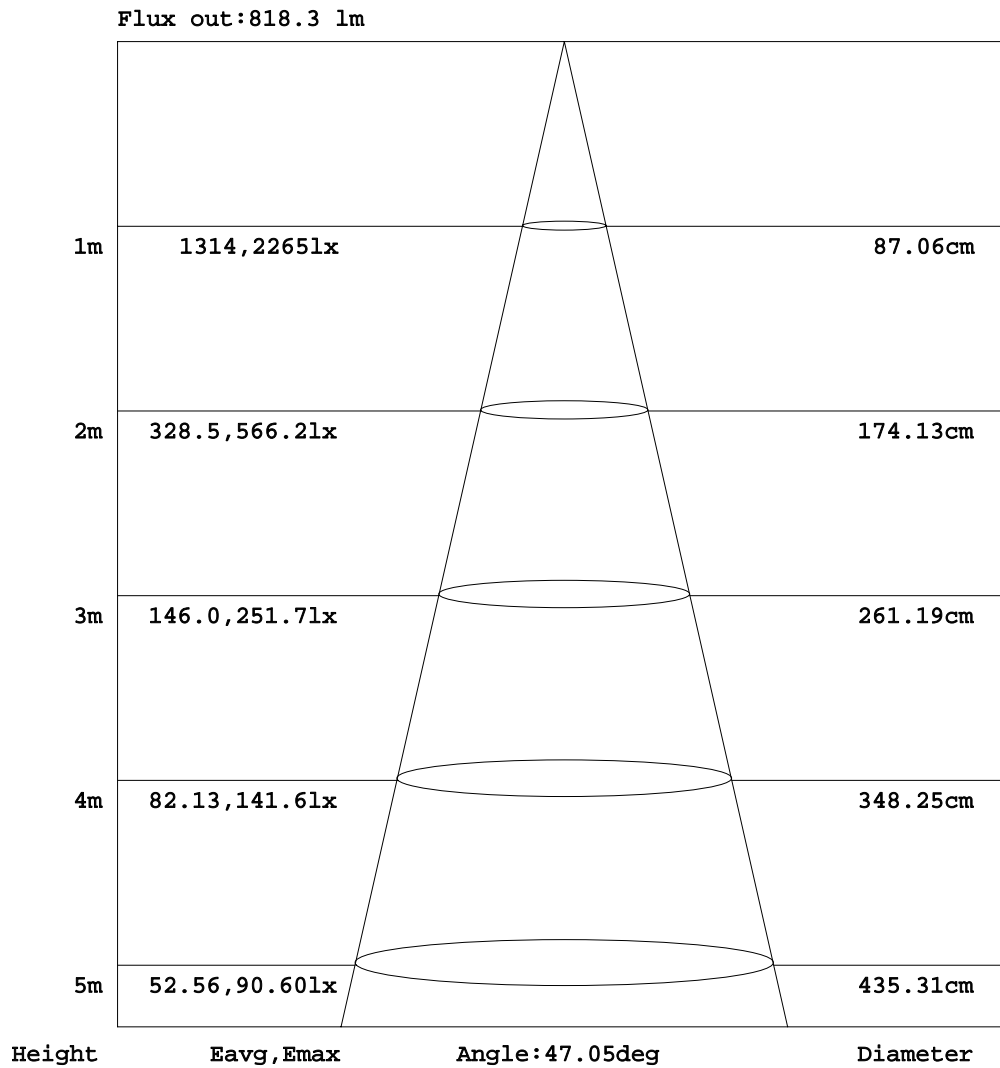
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Jacky  
 Test Date: 2014-11-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: SYSTEM V2.0.290  
 Humidity: 65.0%  
 Test Distance: 10.641m [K=1.0000]  
 Remarks:

DL-240CB-30W White

AAI Figure

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	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:Jacky  
 Test Date:2014-11-26

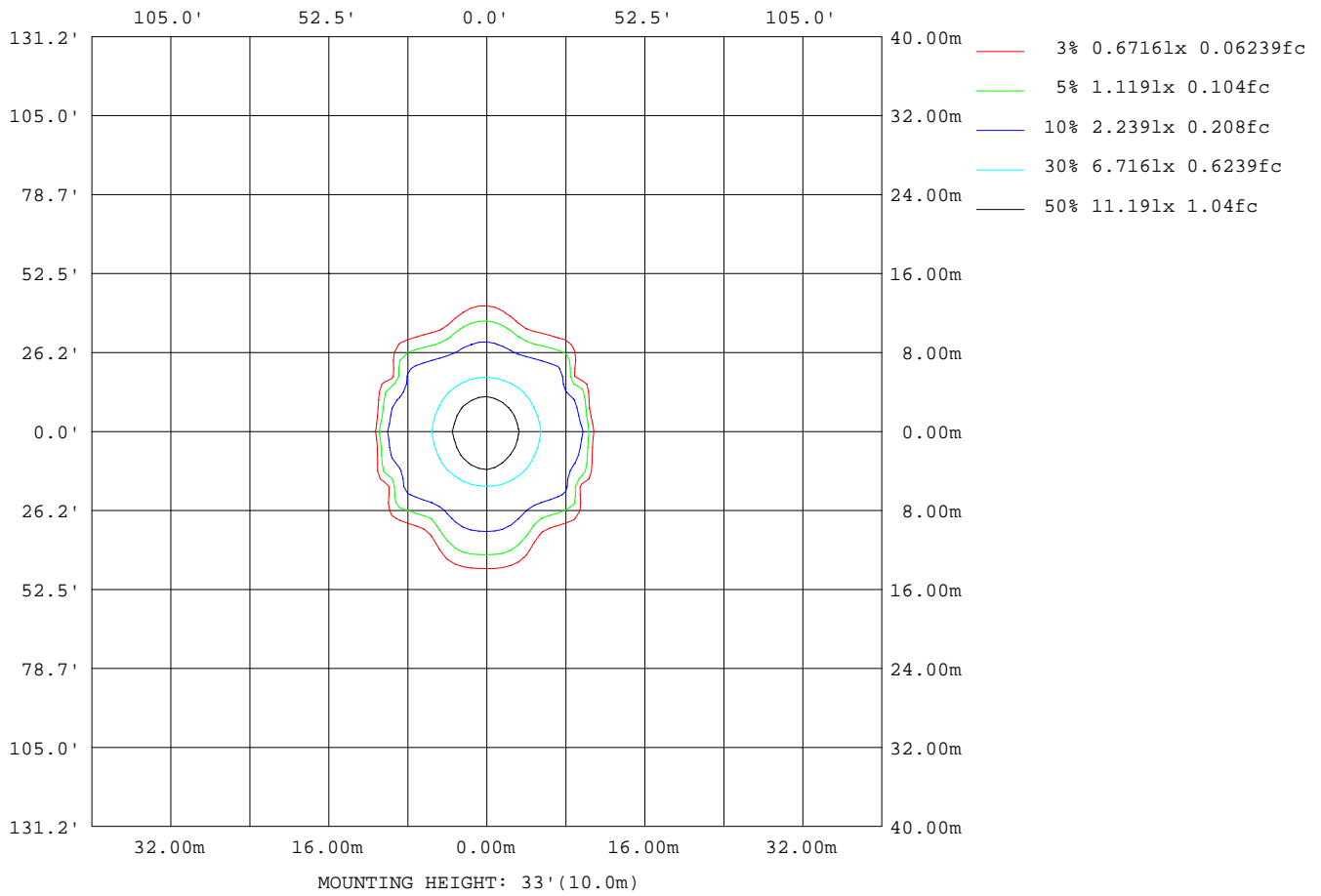
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:10.641m [K=1.0000]  
 Remarks:



# DL-240CB-30W White

## ISOLUX DIAGRAM

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Jacky  
 Test Date: 2014-11-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: SYSTEM V2.0.290  
 Humidity: 65.0%  
 Test Distance: 10.641m [K=1.0000]  
 Remarks:

DL-240CB-30W White

LED Avg.L Report

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	SUR.:	PROTECTION ANGLE:

AvgL	cd/m2
L_0~180(65)av	10354
L_0~180(75)av	14653
L_0~180(85)av	6139
L_90~270(65)av	10671
L_90~270(75)av	14664
L_90~270(85)av	0
L_45(65)av	10627
L_45(75)av	13207
L_45(85)av	0

Standard: GB/T 29293-2012

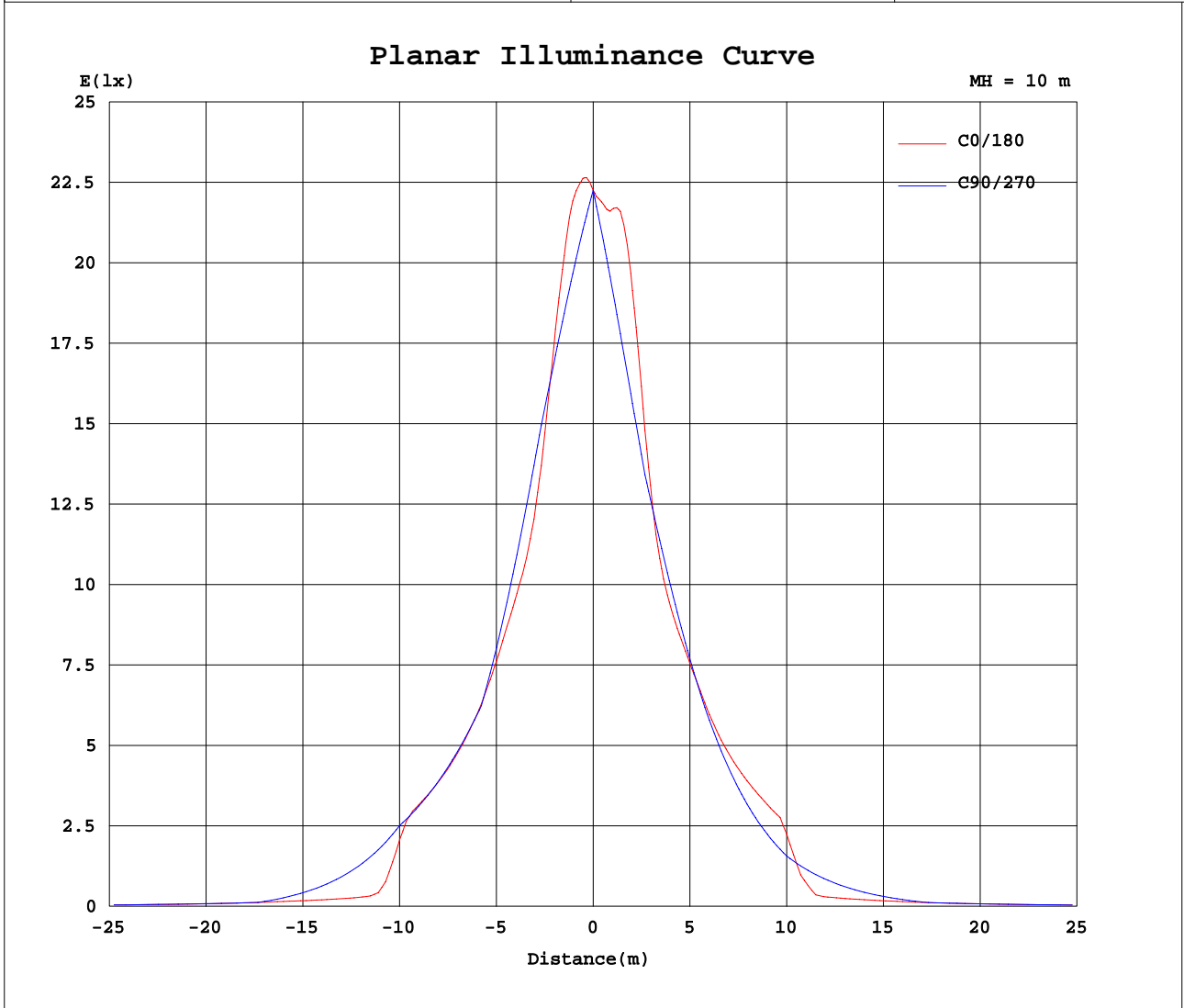
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jacky  
 Test Date:2014-11-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:10.641m [K=1.0000]  
 Remarks:

DL-240CB-30W White

Planar Illuminance Curve

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jacky  
Test Date:2014-11-26

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:SYSTEM V2.0.290  
Humidity:65.0%  
Test Distance:10.641m [K=1.0000]  
Remarks:

**DL-240CB-30W White**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEC) γ (DEC)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225
5	2250	2230	2210	2191	2174	2158	2143	2130	2119	2109	2101	2093	2084	2078	2069	2061	2054	2045	2037
10	1979	1946	1918	1896	1878	1865	1857	1852	1850	1852	1848	1846	1844	1845	1850	1854	1856	1855	1849
15	1520	1499	1486	1480	1479	1482	1487	1494	1503	1513	1524	1537	1554	1570	1587	1610	1634	1652	1660
20	1247	1234	1225	1221	1223	1229	1235	1249	1255	1262	1264	1277	1298	1323	1351	1373	1399	1418	1427
25	1111	1096	1087	1083	1081	1085	1095	1110	1109	1109	1111	1113	1119	1131	1148	1162	1176	1189	1194
30	970	959	954	954	958	964	969	972	974	978	979	980	979	979	977	975	968	963	960
35	868	859	855	856	860	864	865	868	869	869	868	863	841	836	846	861	870	877	877
40	795	788	786	788	773	761	787	789	791	765	689	632	621	653	700	747	779	792	794
45	584	520	528	612	574	451	482	664	633	539	456	387	360	426	525	619	683	707	710
50	111	110	111	115	161	187	118	218	360	315	224	144	131	228	352	443	492	506	506
55	104	104	103	103	103	104	104	105	129	104	104	104	110	146	222	273	299	304	302
60	99.9	99.2	99.6	99.1	100.0	96.9	97.6	99.4	97.7	96.8	96.4	96.4	97.2	104	121	122	113	103	98.6
65	88.9	88.7	89.0	89.3	90.2	89.7	89.5	91.7	91.4	89.9	89.2	89.1	89.4	90.7	92.0	92.4	92.6	92.5	92.1
70	85.7	85.4	85.1	84.8	84.9	83.8	84.5	85.5	84.0	81.8	80.9	81.1	82.2	83.5	84.9	85.4	85.6	85.8	85.6
75	75.6	75.2	75.4	76.0	74.1	75.5	76.3	72.7	70.5	70.2	71.0	72.7	74.8	76.3	77.8	78.5	78.7	79.0	79.1
80	52.8	52.3	52.7	53.0	53.2	53.7	54.1	53.5	55.2	47.5	37.8	29.2	21.6	15.0	9.60	5.37	2.37	0.59	0.00
85	7.37	15.7	22.4	25.2	23.9	12.0	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	0.37	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:Jacky  
 Test Date:2014-11-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:10.641m [K=1.0000]  
 Remarks:

DL-240CB-30W White

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	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	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	
5	2032	2029	2029	2030	2033	2036	2041	2046	2053	2061	2072	2086	2100	2116	2133	2150	2168	2186	2164	
10	1845	1842	1839	1834	1831	1834	1848	1866	1889	1912	1936	1958	1983	2008	2038	2072	2110	2152	2105	
15	1660	1651	1631	1612	1602	1600	1597	1592	1592	1590	1587	1582	1581	1582	1584	1593	1611	1641	1609	
20	1425	1413	1392	1376	1359	1330	1308	1284	1274	1269	1262	1249	1234	1225	1218	1216	1218	1226	1215	
25	1192	1180	1171	1163	1145	1129	1112	1105	1106	1110	1118	1102	1088	1077	1072	1073	1079	1089	1076	
30	959	961	969	974	976	971	971	975	980	982	980	978	966	955	950	953	960	973	961	
35	873	867	860	845	831	833	857	865	870	871	865	859	858	857	854	854	858	865	857	
40	791	782	757	712	662	629	634	688	763	789	788	785	772	780	792	789	791	796	791	
45	709	694	641	552	449	375	388	456	540	631	692	518	477	586	680	599	583	637	551	
50	508	502	462	377	253	140	146	227	316	380	239	123	209	173	123	117	115	114	115	
55	305	305	284	233	157	111	106	105	106	134	106	105	105	105	104	105	105	105	104	
60	102	112	122	122	105	96.7	96.2	96.5	96.7	96.5	94.9	94.7	95.0	94.5	94.5	94.7	94.0	94.3	93.5	
65	91.8	91.3	90.5	89.5	88.4	87.5	87.4	88.0	88.8	89.2	88.7	87.0	86.7	86.8	86.3	86.3	85.9	86.1	85.9	
70	85.4	85.0	84.1	83.2	81.9	80.5	79.8	79.5	80.5	83.6	84.3	82.9	81.9	83.6	82.8	83.2	83.1	82.9	82.9	
75	78.9	78.6	77.8	77.1	75.5	73.5	71.8	70.5	69.8	70.7	72.6	75.2	74.7	73.7	76.2	75.6	75.9	76.1	75.6	
80	0.59	2.37	5.33	9.52	14.9	21.3	28.9	37.8	47.9	56.0	54.9	55.0	54.9	54.6	54.4	54.7	53.9	54.2	54.0	
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	0.00	13.0	26.4	27.9	27.9	22.3	14.0	19.4
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	0.23	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Jacky  
 Test Date: 2014-11-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System: SYSTEM V2.0.290  
 Humidity: 65.0%  
 Test Distance: 10.641m [K=1.0000]  
 Remarks:

DL-240CB-30W White

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	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	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225
5	2142	2121	2100	2080	2061	2044	2029	2016	2006	1996	1989	1983	1978	1974	1973	1976	1980	1987	1997
10	2061	2021	1985	1953	1920	1891	1859	1829	1800	1775	1754	1742	1736	1733	1732	1732	1734	1739	1743
15	1589	1578	1573	1566	1560	1554	1544	1532	1517	1504	1492	1483	1481	1485	1489	1491	1489	1480	1469
20	1211	1211	1217	1226	1238	1249	1251	1246	1238	1243	1253	1269	1282	1295	1305	1311	1310	1300	1286
25	1068	1064	1065	1070	1080	1097	1095	1095	1095	1096	1099	1104	1116	1122	1128	1132	1131	1124	1115
30	955	952	955	962	968	968	970	971	972	970	969	967	966	964	958	955	952	952	953
35	853	853	859	864	866	869	873	871	868	862	819	788	776	778	779	783	783	777	769
40	790	792	767	718	757	793	797	772	693	624	569	537	545	570	594	610	613	601	575
45	533	596	574	435	382	526	630	545	460	384	318	276	293	349	403	435	444	421	375
50	117	118	142	186	114	163	284	315	227	146	115	123	160	233	290	320	328	310	269
55	105	104	105	105	104	104	116	105	105	106	105	106	121	160	192	208	212	203	181
60	93.6	93.5	93.6	94.9	94.9	94.9	96.3	96.9	96.4	96.3	96.0	95.9	97.8	103	101	97.9	96.1	98.0	102
65	85.9	85.5	86.2	86.2	86.8	88.3	88.8	89.0	88.4	87.7	87.1	87.1	87.1	87.5	87.7	88.2	88.3	88.3	88.4
70	82.7	82.3	82.7	81.3	81.9	83.2	82.4	79.7	78.4	78.0	78.2	78.4	79.0	79.6	79.9	80.4	80.5	80.4	80.3
75	75.0	75.2	72.5	72.9	73.5	70.3	67.7	66.7	67.2	67.8	68.9	69.8	70.9	71.7	72.2	72.6	72.7	72.5	72.1
80	54.3	53.5	52.7	52.1	52.4	51.6	51.7	44.1	35.0	26.7	19.6	13.6	8.71	4.89	2.17	0.54	0.00	0.54	2.17
85	25.1	26.3	24.5	11.9	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:Jacky  
 Test Date:2014-11-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:10.641m [K=1.0000]  
 Remarks:

DL-240CB-30W White

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.3V I:0.1317A P:27.71W PF:0.9549 Lamp Flux:2321.88x1 lm		
NAME: DL-240CB-30W White	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: ARLight	SUR.:	PROTECTION ANGLE:

Table--4

UNIT: cd

C(DEC) γ (DEC)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225	2225				
5	2006	2016	2026	2036	2048	2059	2071	2085	2101	2118	2137	2157	2179	2202	2225				
10	1747	1750	1755	1762	1771	1782	1793	1801	1811	1823	1838	1857	1881	1909	1941				
15	1461	1453	1451	1452	1453	1455	1461	1463	1463	1465	1465	1466	1471	1480	1496				
20	1269	1254	1238	1225	1220	1219	1224	1229	1229	1222	1217	1213	1214	1220	1231				
25	1105	1096	1087	1084	1083	1088	1092	1091	1087	1078	1071	1071	1076	1082	1094				
30	957	956	958	960	965	967	964	961	959	955	951	949	949	951	958				
35	763	763	777	812	857	861	863	862	861	860	858	855	853	854	859				
40	545	521	522	562	618	686	764	789	787	729	695	758	787	786	788				
45	313	261	266	313	379	454	539	605	457	326	422	535	508	454	486				
50	205	137	113	111	142	224	304	247	125	110	161	119	109	109	109				
55	146	113	104	104	103	104	104	109	106	104	105	105	104	105	105				
60	102	97.6	96.4	96.3	96.3	96.7	98.0	101	99.5	96.5	98.5	99.8	98.0	99.3	98.9				
65	88.6	87.9	88.0	88.5	89.5	90.4	91.6	92.7	90.7	88.7	90.0	89.6	89.1	89.0	88.8				
70	80.1	79.1	78.7	78.4	78.6	79.4	81.3	84.9	84.7	83.0	83.4	85.2	84.5	85.3	85.5				
75	71.5	70.2	69.3	68.1	67.3	66.5	66.7	67.7	69.6	72.3	72.0	71.6	73.7	74.0	74.4				
80	4.87	8.61	13.4	19.3	26.2	33.8	42.5	49.3	49.3	49.3	49.4	50.4	51.0	50.9	51.6				
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.4	20.6	21.6	15.4	10.9				
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				

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jacky  
 Test Date:2014-11-26

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:SYSTEM V2.0.290  
 Humidity:65.0%  
 Test Distance:10.641m [K=1.0000]  
 Remarks: