
LED Tracklight BO Series LE-BO
L-42W-940-12D



Light Output Ratio:	100.0%	
Luminaire Power:	40.83 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-03

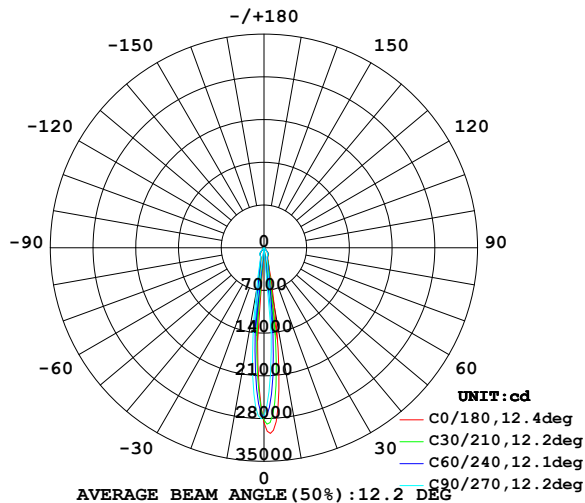
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

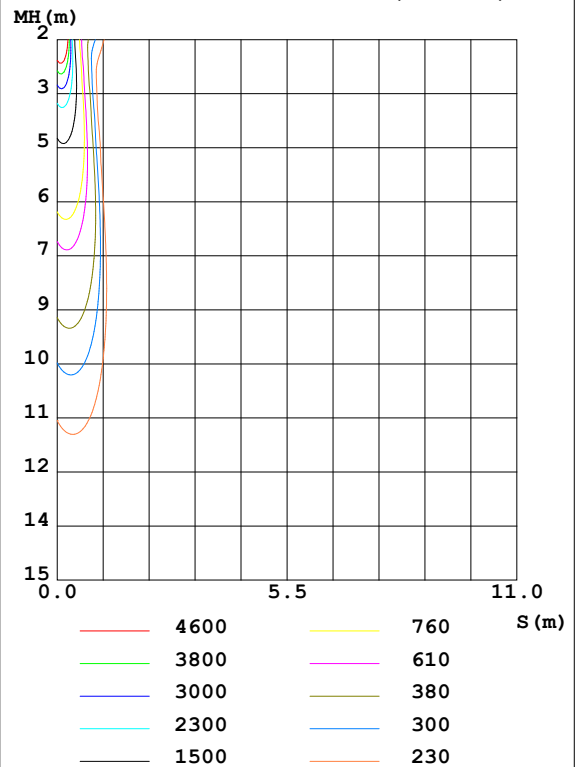
Test:U:220.6V I:0.1971A P:40.83W PF:0.9391 Lamp Flux:3607.94x1 lm		
NAME: BO L-42W-940-12D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 128mm*H120mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 88.36 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	30439	S/MH (C0/180)	0.15
NOMINAL POWER (W)	42	LOR (%)	100.0	S/MH (C90/270)	0.25
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	3607.9	η UP, DN (C0-180)	0.0, 46.3
NOMINAL FLUX (lm)	3607.94	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 53.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



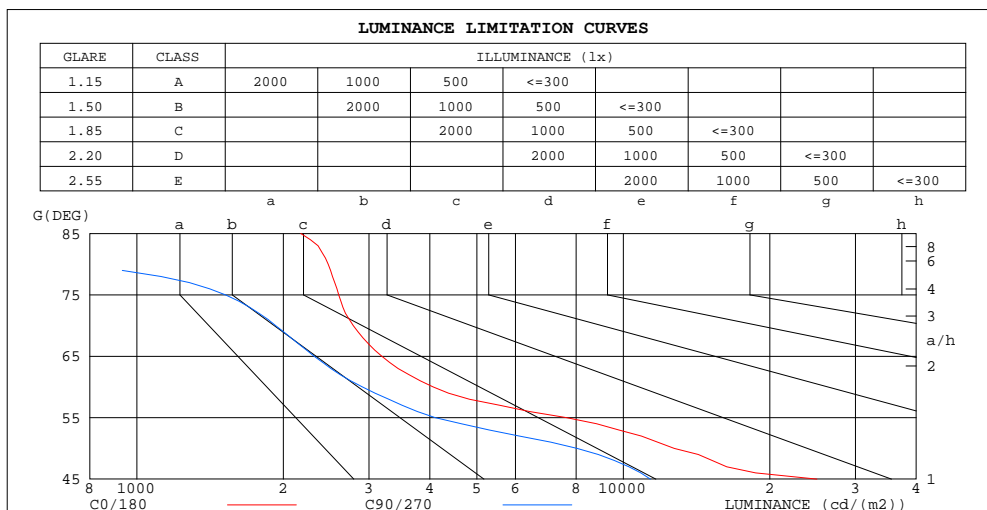
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 Test Speed: HIGH
 Temperature:25.3DEG
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γ Range: 0 - 90DEG
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 Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1005	607.4	385.7	330.7	351.8	430.4	713.4	1068	0- 10	1307	1307	36.2,36.2
20	188.4	168.5	155.6	150.3	156.9	161.7	171.9	178.5	10- 20	774.6	2082	57.7,57.7
30	136.8	134.3	125.5	120.0	127.3	132.1	132.9	137.9	20- 30	666.4	2748	76.2,76.2
40	94.40	61.04	30.81	19.00	21.14	39.98	77.08	95.62	30- 40	642.9	3391	94,94
50	10.52	8.459	6.644	5.665	6.201	7.070	8.691	9.991	40- 50	156.5	3548	98.3,98.3
60	2.615	2.249	1.871	1.757	1.823	1.949	2.236	2.530	50- 60	38.07	3586	99.4,99.4
70	1.225	1.042	0.8487	0.8324	0.9062	0.9316	0.9944	1.141	60- 70	14.57	3600	99.8,99.8
80	0.5525	0.3455	0.1547	0.1670	0.2531	0.2638	0.2970	0.4118	70- 80	6.709	3607	100,100
90	0.0192	0.0190	0.0192	0.0195	0.0125	0.0120	0.0118	0.0127	80- 90	0.9949	3608	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		



LUMINANCE cd/(m ²)		
G(°)	C0/180	C90/270
85	2172	197
80	2474	693
75	2601	1522
70	2785	1929
65	3189	2314
60	4066	2909
55	7649	4104
50	12724	8036
45	24991	11371

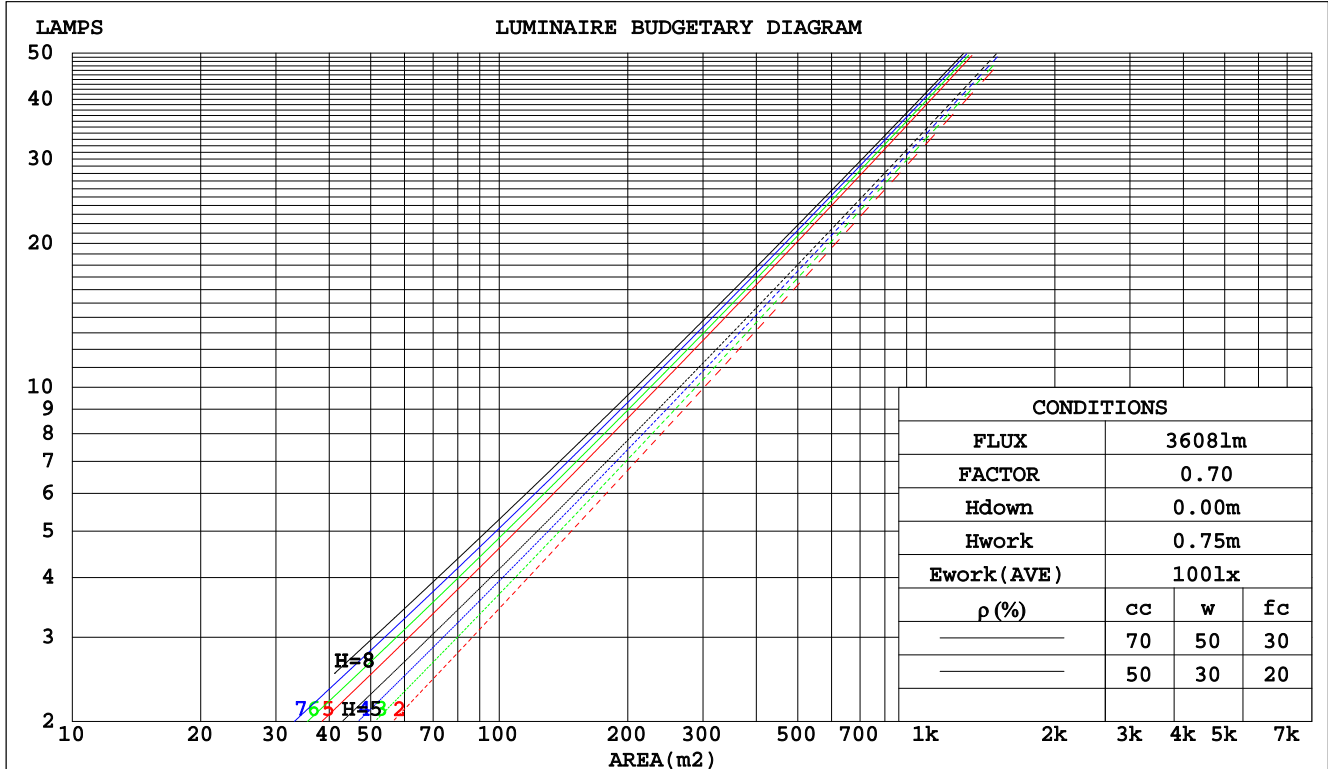
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
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 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.1971A P:40.83W PF:0.9391 Lamp Flux:3607.94x1 lm		
NAME: BO L-42W-940-12D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 128mm*H120mm	
MFR.:		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.93	.92	.90
3.0	.00	.96	.92	.99	.95	.92	.96	.93	.90	.94	.91	.89	.91	.89	.87	.86
4.0	.95	.90	.87	.94	.90	.86	.92	.88	.85	.90	.87	.84	.88	.85	.83	.82
5.0	.90	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.80	.78
6.0	.86	.81	.78	.86	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
7.0	.83	.78	.74	.82	.78	.74	.81	.77	.74	.80	.76	.73	.79	.76	.73	.72
8.0	.80	.75	.71	.79	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.69
9.0	.77	.72	.69	.76	.72	.69	.75	.71	.68	.75	.71	.68	.74	.70	.68	.67
10.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.72	.68	.66	.65



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WEC AND CCEC

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ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.155	.088	.028	.148	.085	.027	.136	.078	.025	.124	.072	.023	.114	.066	.021		
2.0	.147	.080	.025	.141	.078	.024	.131	.073	.023	.121	.068	.021	.112	.064	.020		
3.0	.138	.074	.022	.134	.072	.022	.125	.068	.021	.117	.064	.020	.109	.061	.019		
4.0	.131	.068	.020	.127	.066	.020	.119	.063	.019	.112	.060	.018	.106	.058	.018		
5.0	.124	.063	.018	.120	.062	.018	.114	.059	.017	.108	.057	.017	.102	.055	.016		
6.0	.117	.059	.017	.114	.058	.017	.109	.056	.016	.103	.054	.016	.099	.052	.015		
7.0	.111	.055	.016	.109	.054	.015	.104	.053	.015	.099	.051	.015	.095	.049	.015		
8.0	.106	.052	.015	.104	.051	.014	.099	.050	.014	.095	.048	.014	.092	.047	.014		
9.0	.101	.049	.014	.099	.048	.014	.095	.047	.013	.092	.046	.013	.088	.045	.013		
10.0	.097	.046	.013	.095	.046	.013	.091	.045	.013	.088	.044	.012	.085	.043	.012		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.170	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.075	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.118	.086	.063	.101	.075	.055	.070	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.110	.077	.053	.094	.066	.046	.065	.046	.033	.038	.027	.019	.012	.009	.006	
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.005	
8.0	.096	.062	.039	.083	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.091	.057	.034	.078	.049	.029	.054	.035	.021	.031	.020	.012	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

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 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.1971A P:40.83W PF:0.9391 Lamp Flux:3607.94x1 lm										
NAME: BO L-42W-940-12D					TYPE:Downlight			SERIAL No.:		
SPEC.:4000K					DIM.: ϕ 128mm*H120mm					
MFR.:										
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	20.3	21.1	20.5	21.3	21.4	18.7	19.5	18.9	19.7	19.8
3H	20.2	20.9	20.4	21.1	21.3	18.6	19.3	18.8	19.5	19.7
4H	20.1	20.8	20.4	21.0	21.2	18.5	19.2	18.8	19.4	19.6
6H	20.1	20.7	20.3	20.9	21.2	18.4	19.1	18.7	19.3	19.6
8H	20.0	20.6	20.3	20.9	21.1	18.4	19.0	18.7	19.3	19.5
12H	20.0	20.6	20.3	20.8	21.1	18.4	19.0	18.7	19.2	19.5
4H 2H	20.1	20.8	20.4	21.0	21.2	18.5	19.2	18.8	19.4	19.6
3H	20.0	20.6	20.3	20.8	21.1	18.4	19.0	18.7	19.2	19.5
4H	19.9	20.4	20.2	20.7	21.0	18.3	18.9	18.6	19.1	19.4
6H	19.8	20.3	20.2	20.6	21.0	18.2	18.7	18.6	19.0	19.4
8H	19.8	20.2	20.2	20.6	20.9	18.2	18.6	18.6	19.0	19.3
12H	19.7	20.1	20.1	20.5	20.9	18.1	18.5	18.5	18.9	19.3
8H 4H	19.8	20.2	20.1	20.5	20.9	18.2	18.6	18.6	19.0	19.3
6H	19.7	20.0	20.1	20.4	20.8	18.1	18.4	18.5	18.8	19.2
8H	19.6	20.0	20.1	20.4	20.8	18.0	18.3	18.5	18.8	19.2
12H	19.6	19.9	20.1	20.3	20.8	18.0	18.2	18.4	18.7	19.1
12H 4H	19.7	20.1	20.1	20.5	20.9	18.1	18.5	18.5	18.9	19.3
6H	19.6	19.9	20.1	20.4	20.8	18.0	18.3	18.5	18.8	19.2
8H	19.6	19.9	20.0	20.3	20.8	18.0	18.2	18.4	18.7	19.2
Variations with the observer position at spacings:										
S = 1.0H	+ 3.1 / -10.7					+ 3.1 / - 9.8				
1.5H	+ 5.6 / - 9.4					+ 5.5 / - 8.0				
2.0H	+ 5.9 / - 4.0					+ 3.5 / - 3.3				

CIE Pub.117 Corrected 3608 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.5)

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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 Remarks:

UTILIZATION FACTORS TABLE

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SPEC.:4000K	DIM.: $\phi 128\text{mm} \times H120\text{mm}$	
MFR.:		

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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	81	78	87	81	78	86	81	78	74
0.80	95	89	86	95	89	86	93	88	85	82
1.00	100	94	91	99	94	90	97	93	90	86
1.25	104	98	95	102	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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MFR.:		

Conical surface Flux(90deg):

3505.1 lm

%lum = 97.2%

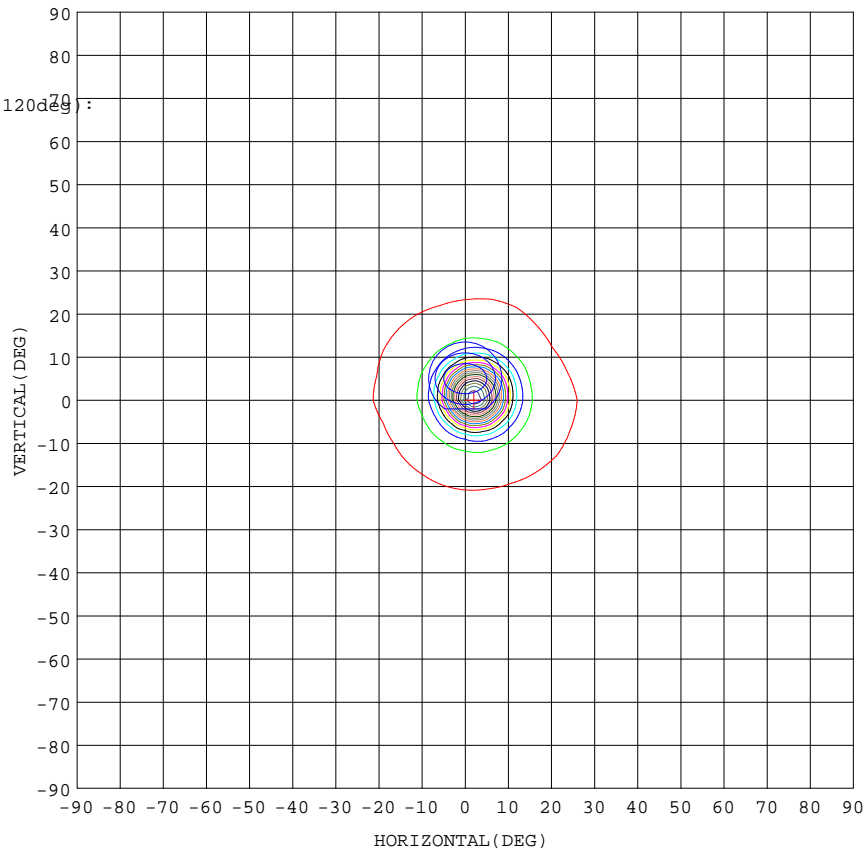
%lamp = 97.2%

Conical surface Flux(120deg):

3585.7 lm

%lum = 99.4%

%lamp = 99.4%

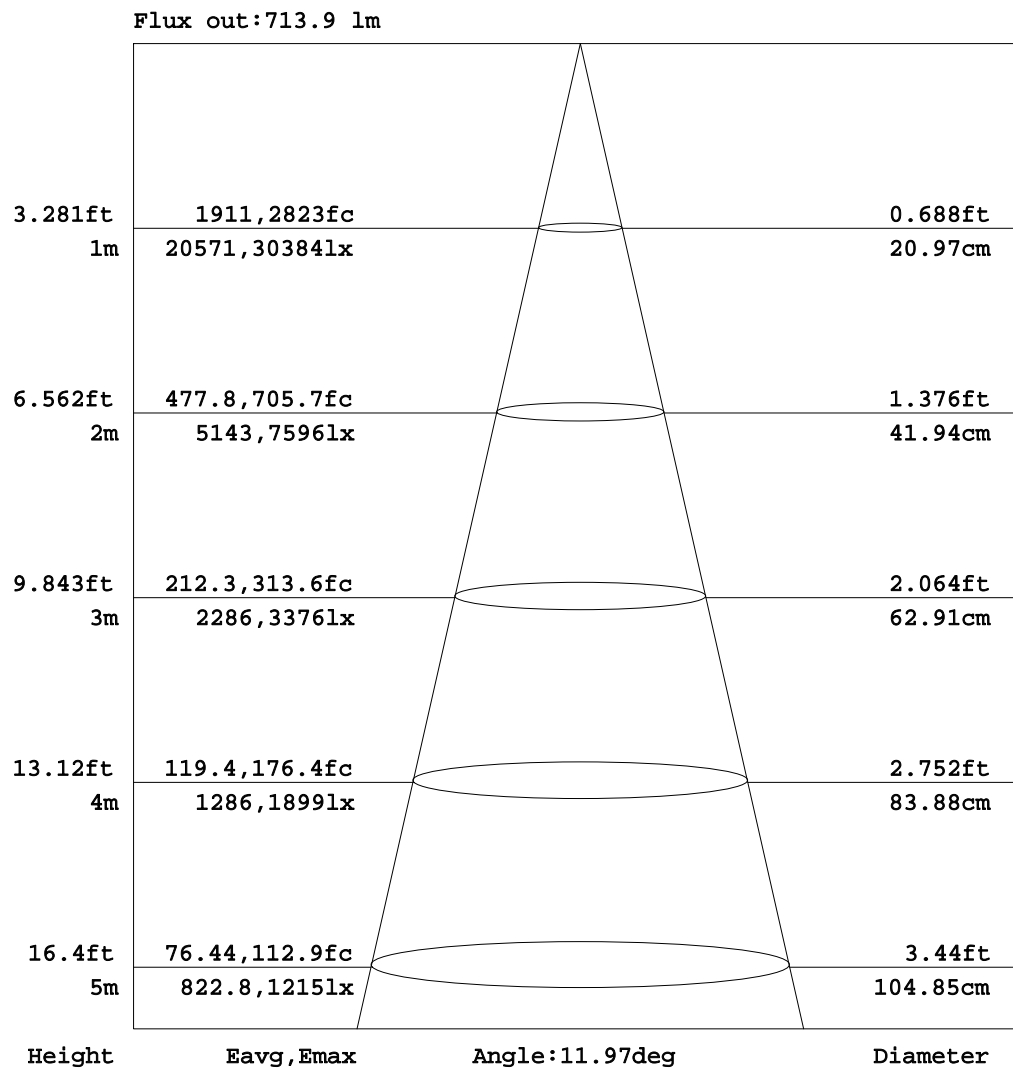


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AAI Figure

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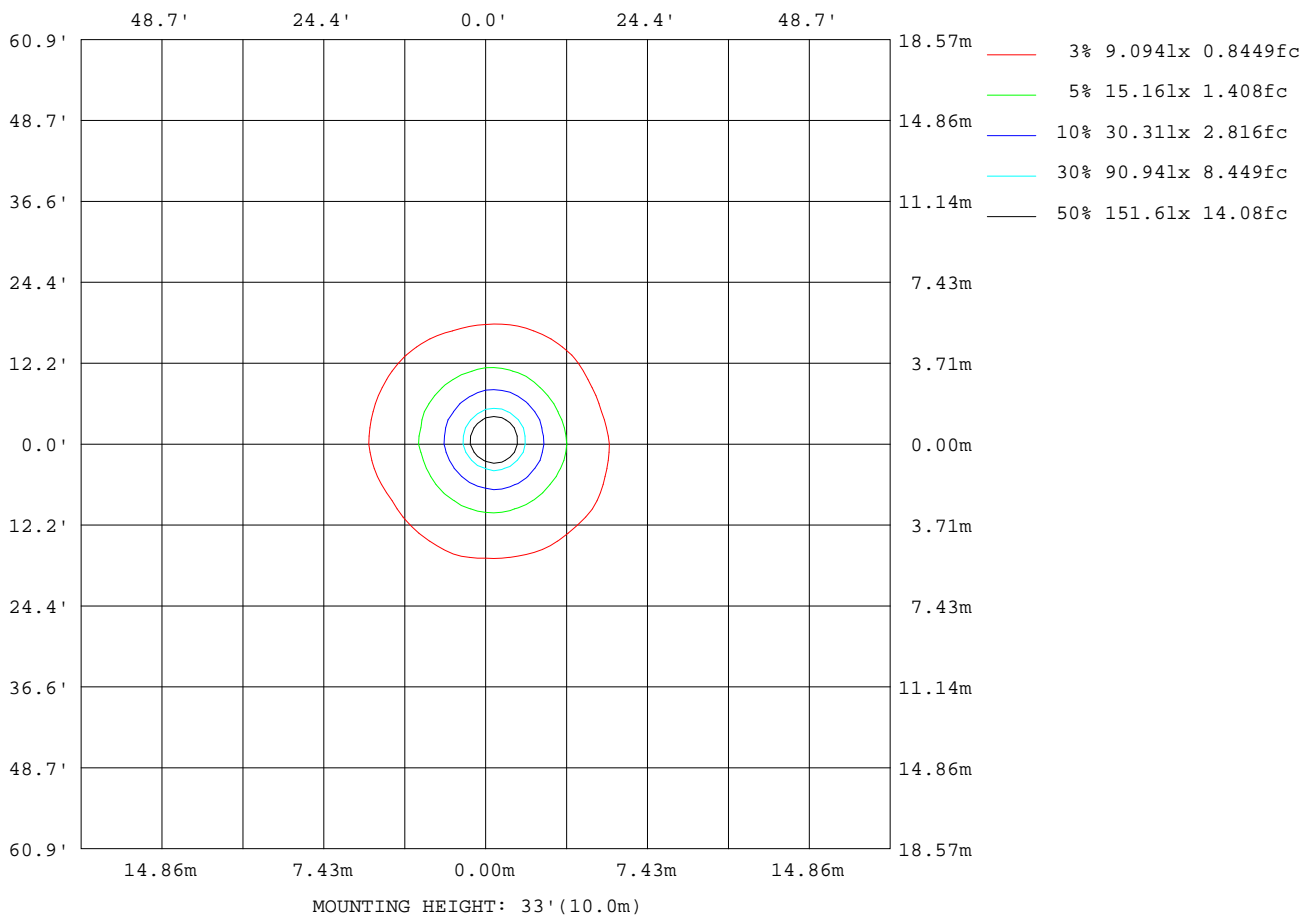
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

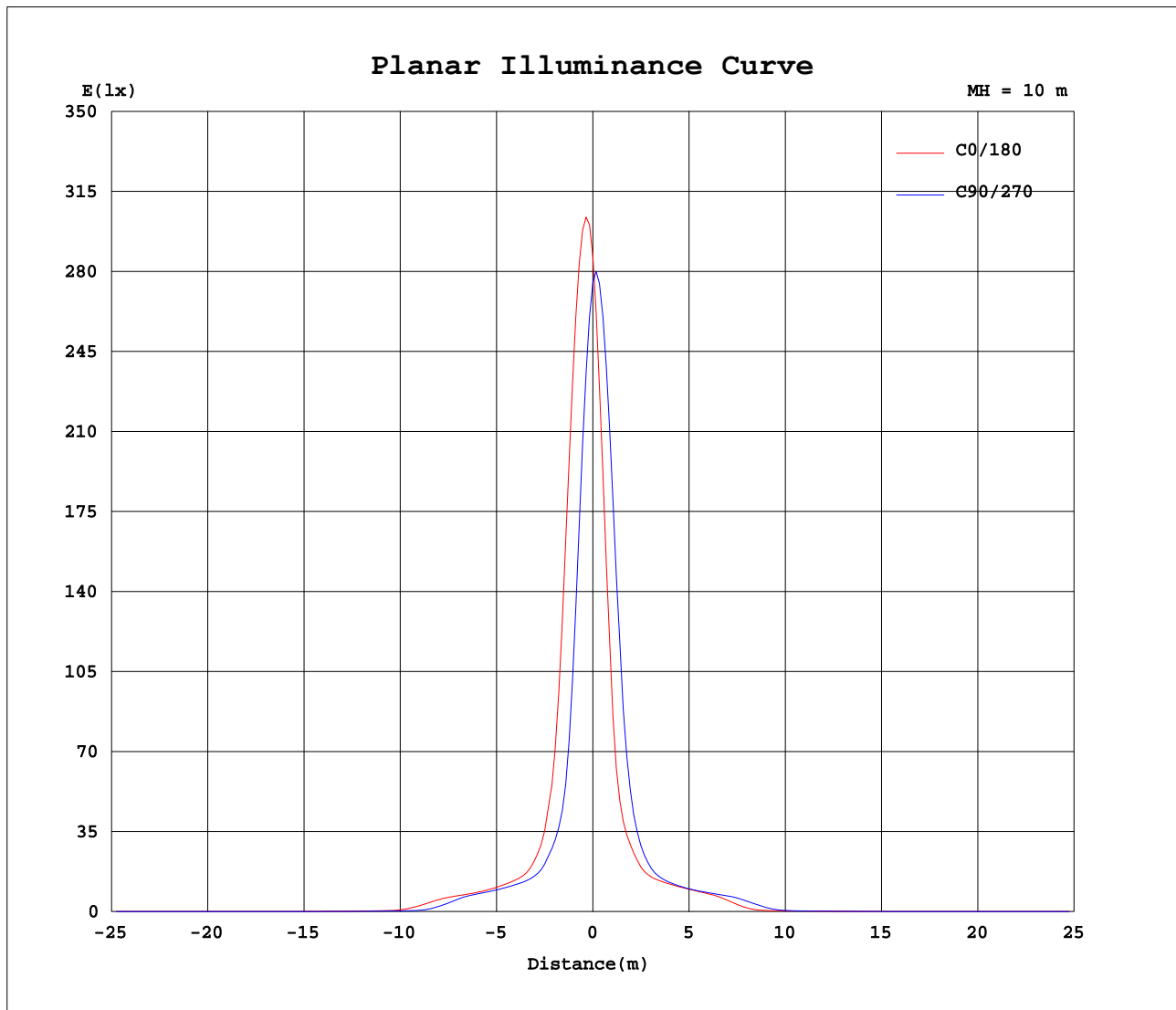
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Planar Illuminance Curve



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Table--1

UNIT: $\times 10 \text{cd}$ [illegible]

C Range: 0 - 360DEG
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Test:U:220.6V I:0.1971A P:40.83W PF:0.9391 Lamp Flux:3607.94x1 lm		
NAME: BO L-42W-940-12D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ128mm*H120mm	
MFR.:		

Table--2

UNIT: $\times 10 \text{cd}$ [illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-03

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

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Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	28662	28302	28212	27930	27792	27666	27512	27591	27436	27584
3.0	29945	29000	27495	25951	23980	22396	20591	19685	18436	18126
6.0	23514	21964	19370	17058	14294	12530	10329	9434	8246	7978
9.0	13173	11989	9515	7932	6278	5398	4592	4267	3898	3818
12.0	5931	5390	4598	4064	3555	3257	2954	2823	2662	2622
15.0	3279	3118	2841	2645	2367	2210	2046	1982	1899	1877
18.0	2215	2105	1968	1887	1782	1732	1675	1640	1607	1596
21.0	1794	1731	1666	1622	1564	1532	1513	1497	1476	1464
24.0	1618	1574	1540	1494	1450	1415	1406	1406	1384	1361
27.0	1473	1455	1458	1415	1386	1344	1322	1333	1299	1277
30.0	1368	1372	1394	1343	1333	1289	1255	1257	1199	1200
33.0	1303	1324	1312	1247	1264	1234	1169	1132	1043	1061
36.0	1252	1294	1184	1106	1078	995.9	864.3	783.0	679.5	681.5
39.0	1073	1068	867.0	747.6	655.9	555.8	436.2	371.2	309.7	280.5
42.0	629.1	580.6	428.9	354.2	242.4	182.6	149.2	144.0	137.6	129.4
45.0	227.3	188.7	162.2	145.9	112.5	105.2	103.4	102.2	100.6	95.25
48.0	131.1	118.1	114.6	104.0	90.37	87.43	82.57	78.59	75.04	72.79
51.0	95.18	88.60	85.24	76.32	68.84	64.37	57.43	54.00	49.13	47.95
54.0	66.62	63.35	57.01	49.46	42.54	38.83	35.12	33.68	31.19	30.51
57.0	39.08	36.70	33.37	30.77	27.63	26.09	24.61	23.78	22.64	22.37
60.0	26.15	25.13	23.71	22.49	20.62	19.65	18.71	18.26	17.64	17.57
63.0	20.11	19.42	18.55	17.58	16.18	15.48	14.63	14.37	14.16	14.12
66.0	16.13	15.71	15.02	14.07	12.87	12.27	11.68	11.44	11.33	11.40
69.0	13.12	12.84	12.20	11.26	10.27	9.748	9.228	9.002	8.866	9.067
72.0	10.67	10.40	9.726	8.897	8.046	7.616	7.084	6.794	6.667	6.916
75.0	8.657	8.273	7.532	6.806	6.023	5.588	5.065	4.825	4.678	4.860
78.0	6.752	6.255	5.530	4.816	4.020	3.462	2.999	2.903	2.801	2.914
81.0	4.913	4.350	3.567	2.755	1.871	1.199	0.7798	0.7228	0.8247	1.071
84.0	3.056	2.471	1.493	0.4507	0.2646	0.2210	0.2235	0.1924	0.2104	0.2097
87.0	1.192	0.6728	0.2176	0.1946	0.2208	0.2315	0.2100	0.1924	0.1968	0.1924
90.0	0.1924	0.1902	0.1902	0.1902	0.1946	0.1924	0.1924	0.1924	0.1946	0.1946
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	27518	27711	28662	28302	28212	27930	27792	27666	27512	27591
3.0	17746	18124	19230	19519	20681	21600	23195	24485	26124	27293
6.0	7598	7925	8628	9013	10382	11552	13826	15596	18226	20092
9.0	3703	3805	4096	4251	4761	5483	6324	7383	9188	10617
12.0	2562	2590	2748	2797	2976	3131	3492	3849	4555	5251
15.0	1852	1861	1954	1976	2080	2159	2338	2478	2747	2932
18.0	1584	1596	1663	1665	1723	1745	1798	1846	1954	2032
21.0	1457	1479	1533	1530	1562	1574	1593	1605	1645	1678
24.0	1352	1393	1441	1437	1459	1470	1476	1467	1490	1526
27.0	1263	1315	1362	1357	1376	1385	1385	1369	1387	1428
30.0	1193	1242	1273	1290	1293	1321	1320	1309	1329	1355
33.0	1065	1105	1136	1187	1210	1248	1262	1264	1288	1291
36.0	672.2	706.1	754.7	818.6	917.4	1008	1093	1166	1220	1216
39.0	258.2	271.2	313.2	356.1	456.3	554.5	675.5	794.7	920.0	984.4
42.0	115.8	116.6	133.8	124.9	163.1	160.5	236.7	330.0	451.7	550.2
45.0	91.40	92.92	99.51	98.14	102.5	103.9	111.9	120.2	162.3	176.8
48.0	70.81	73.63	78.51	79.14	84.68	87.13	89.90	96.52	105.7	114.8
51.0	46.76	48.52	52.53	53.52	58.91	61.63	68.39	73.42	79.03	83.31
54.0	29.65	30.36	32.06	32.63	35.81	37.75	42.08	45.90	51.42	56.37
57.0	21.96	22.51	23.29	23.33	24.67	25.28	26.93	28.22	31.24	33.03
60.0	17.29	17.68	18.23	18.22	19.10	19.49	20.43	21.06	22.36	22.98
63.0	13.95	14.30	14.77	14.75	15.40	15.66	16.12	16.51	17.34	17.80
66.0	11.39	11.73	12.06	12.00	12.54	12.67	12.90	13.08	13.75	14.13
69.0	9.147	9.553	9.776	9.740	10.05	10.07	10.18	10.28	10.84	11.19
72.0	7.034	7.515	7.703	7.740	7.863	7.861	7.909	8.018	8.451	8.712
75.0	5.037	5.474	5.738	5.791	5.875	5.861	5.912	5.960	6.332	6.577
78.0	3.072	3.465	3.802	3.808	3.918	3.926	4.005	4.004	4.309	4.534
81.0	1.285	1.602	1.880	1.916	2.029	1.986	2.102	2.126	2.283	2.470
84.0	0.2442	0.2292	0.2631	0.2918	0.3781	0.3104	0.2588	0.3152	0.3558	0.4112
87.0	0.1924	0.1881	0.1225	0.1312	0.1203	0.1269	0.1159	0.1643	0.2183	0.4069
90.0	0.1924	0.1924	0.1246	0.1290	0.1203	0.1203	0.1137	0.1203	0.1181	0.1290
G/C	300.0	315.0	330.0	345.0						
0.0	27436	27584	27518	27711						
3.0	28455	29121	29474	29424						
6.0	22178	23278	23988	23735						
9.0	12845	13700	14420	13978						
12.0	5908	6363	6673	6316						
15.0	3221	3334	3444	3316						
18.0	2132	2150	2208	2200						
21.0	1703	1683	1692	1731						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-08-03

γ Range: 0 - 90DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288

Humidity: 52%

Test Distance: 5.850m [K=1.0000]

Remarks:

Photometric Data Table [cd]

24.0	1538	1513	1495	1544
27.0	1442	1424	1396	1412
30.0	1374	1379	1342	1330
33.0	1311	1335	1316	1269
36.0	1246	1256	1267	1203
39.0	1074	1083	1093	1036
42.0	649.5	665.2	682.4	642.8
45.0	225.2	255.5	277.8	261.9
48.0	119.9	124.5	131.3	138.3
51.0	87.96	89.82	90.14	96.51
54.0	60.42	61.79	64.91	67.40
57.0	35.95	37.09	38.79	39.59
60.0	24.18	25.30	26.14	26.38
63.0	18.77	19.58	20.08	20.12
66.0	14.82	15.55	16.13	16.01
69.0	11.79	12.37	12.95	12.93
72.0	9.229	9.720	10.31	10.49
75.0	7.071	7.500	8.059	8.372
78.0	5.046	5.459	6.001	6.344
81.0	3.046	3.431	3.997	4.437
84.0	0.5241	1.080	1.911	2.566
87.0	0.4790	0.3424	0.1984	0.7966
90.0	0.1246	0.1268	0.1159	0.1334

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-03

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks: