

LED Downlight FUSION Series LE-FF5-11W-840-40D
Specular



Light Output Ratio:	100.0%	
Luminaire Power:	12.77 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-11

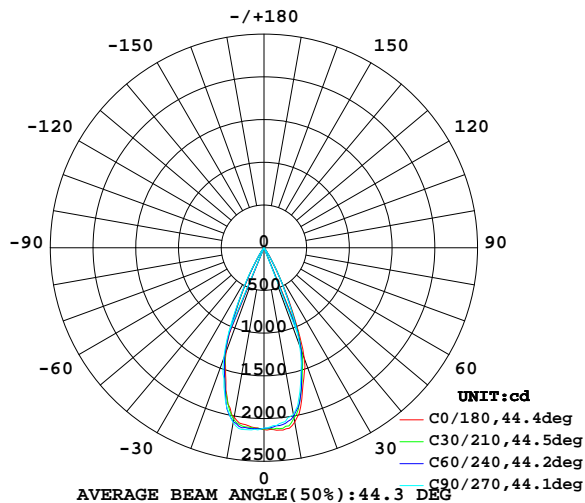
γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

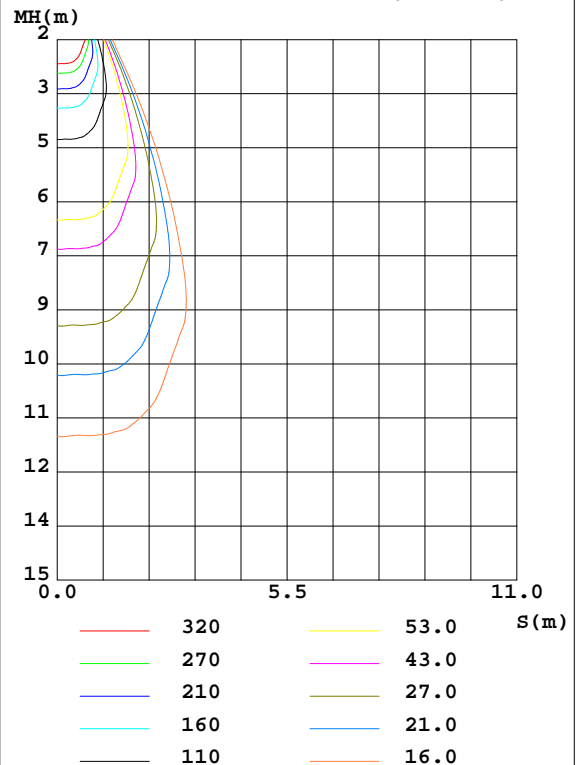
Test:U:220.7V I:0.0643A P:12.77W PF:0.9005 Lamp Flux:1053.24x1 lm		
NAME: FF5-11W-840-40D Specular	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.46 lm/W			
MODEL	CREE-4000K	Imax(cd)	2147	S/MH(C0/180)	0.65
NOMINAL POWER(W)	13.0	LOR(%)	100.0	S/MH(C90/270)	0.67
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1053.2	η UP,DN(C0-180)	0.0,48.7
NOMINAL FLUX(lm)	1053.24	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.65

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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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	$\%lum, lamp$
10	2071	2017	1984	1980	2014	2045	2077	2076	0- 10	199.3	199.3	18.9,18.9
20	1383	1282	1222	1252	1302	1351	1381	1374	10- 20	472.0	671.3	63.7,63.7
30	252.4	230.2	217.3	225.7	236.6	255.9	278.4	266.3	20- 30	323.3	994.7	94.4,94.4
40	20.28	18.78	17.97	18.60	18.64	20.48	22.50	22.15	30- 40	53.17	1048	99.5,99.5
50	0.7986	0.7387	0.7132	0.7234	0.7758	0.8357	0.8588	0.8268	40- 50	4.214	1052	99.9,99.9
60	0.4835	0.4633	0.4507	0.4502	0.4741	0.5119	0.5353	0.5097	50- 60	0.5567	1053	99.9,99.9
70	0.2538	0.2470	0.2559	0.2513	0.2359	0.2778	0.2949	0.2822	60- 70	0.3597	1053	100,100
80	0.1138	0.1027	0.1204	0.1092	0.0851	0.1356	0.1288	0.1378	70- 80	0.1970	1053	100,100
90	0.0503	0.0503	0.0503	0.0503	0.0328	0.0328	0.0328	0.0372	80- 90	0.0779	1053	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:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	109	135
80	95	101
75	99	107
70	108	109
65	123	117
60	140	131
55	160	144
50	180	161
45	572	421

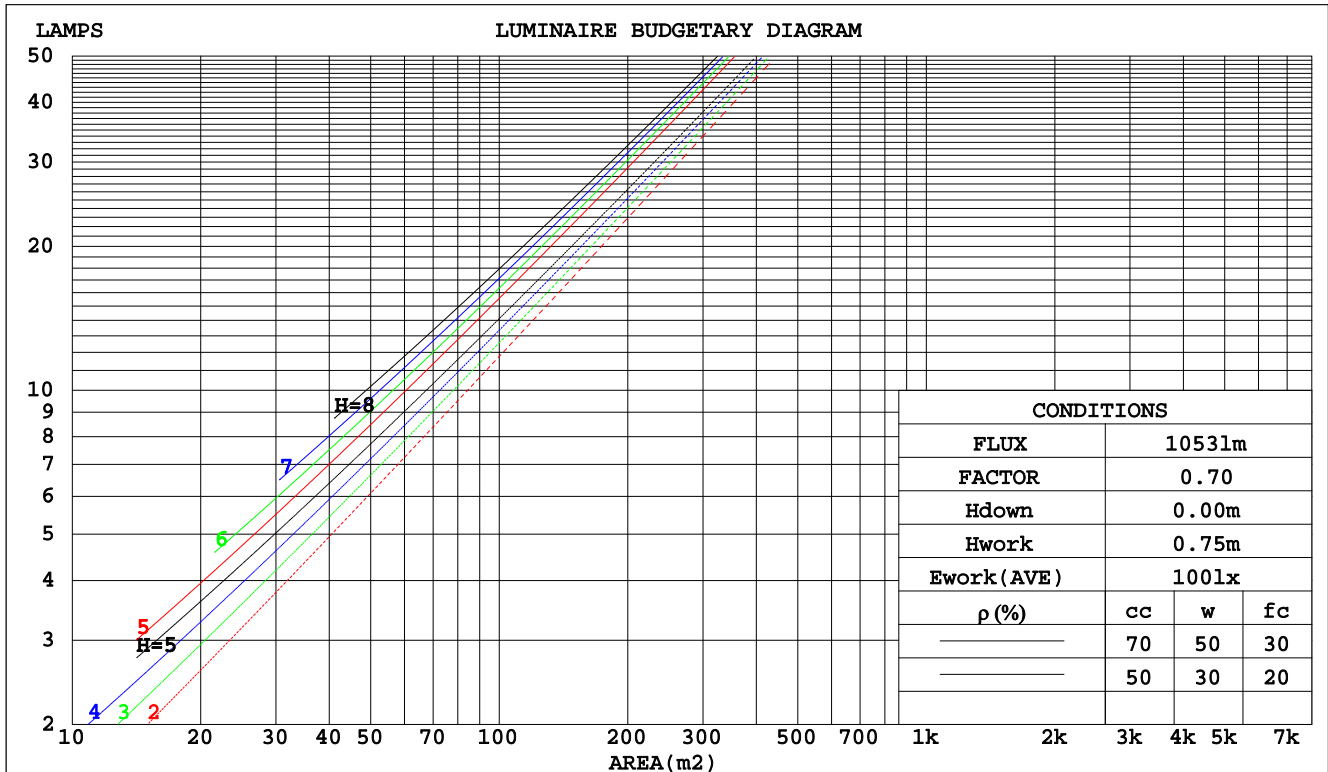
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:4000K	DIM.: L153mm*W45mm*H60mm	
MFR.:		

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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	.90	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.91	.88	.95	.91	.87	.93	.89	.86	.91	.88	.85	.89	.87	.85	.83
5.0	.91	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.82	.86	.83	.81	.80
6.0	.87	.83	.79	.87	.82	.79	.85	.81	.78	.84	.81	.78	.83	.80	.77	.76
7.0	.84	.79	.75	.83	.79	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
8.0	.80	.75	.72	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.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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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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.151	.086	.027	.144	.082	.026	.132	.076	.024	.120	.069	.022	.110	.064	.020	
2.0	.141	.077	.024	.136	.075	.023	.126	.070	.022	.116	.065	.020	.107	.061	.019	
3.0	.133	.071	.021	.128	.069	.021	.120	.065	.020	.112	.061	.019	.104	.058	.018	
4.0	.126	.065	.019	.122	.064	.019	.115	.061	.018	.108	.058	.017	.101	.055	.017	
5.0	.120	.061	.018	.116	.060	.017	.110	.057	.017	.104	.055	.016	.098	.053	.016	
6.0	.114	.057	.016	.111	.056	.016	.106	.054	.016	.100	.052	.015	.096	.050	.015	
7.0	.109	.054	.015	.106	.053	.015	.102	.051	.015	.097	.050	.014	.093	.048	.014	
8.0	.104	.051	.014	.102	.050	.014	.098	.049	.014	.094	.048	.014	.090	.046	.013	
9.0	.100	.049	.014	.098	.048	.013	.094	.047	.013	.091	.046	.013	.087	.044	.013	
10.0	.097	.046	.013	.095	.046	.013	.091	.045	.013	.088	.044	.012	.085	.043	.012	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.109	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.076	.053	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.069	.045	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

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 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

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SPEC.:4000K					DIM.: L153mm*W45mm*H60mm					
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	7.4	8.2	7.6	8.3	8.5	6.6	7.4	6.8	7.5	7.7
3H	7.2	7.9	7.5	8.1	8.3	6.4	7.1	6.7	7.3	7.5
4H	7.2	7.8	7.4	8.0	8.3	6.4	7.0	6.6	7.2	7.5
6H	7.1	7.7	7.4	7.9	8.2	6.3	6.9	6.6	7.1	7.4
8H	7.0	7.6	7.3	7.9	8.1	6.2	6.8	6.5	7.1	7.3
12H	7.0	7.6	7.3	7.8	8.1	6.2	6.8	6.5	7.0	7.3
4H 2H	7.2	7.8	7.4	8.0	8.2	6.4	7.0	6.6	7.2	7.4
3H	7.0	7.6	7.3	7.8	8.1	6.2	6.8	6.5	7.0	7.3
4H	6.9	7.4	7.2	7.7	8.0	6.1	6.6	6.4	6.9	7.2
6H	6.8	7.3	7.2	7.6	7.9	6.0	6.5	6.4	6.8	7.1
8H	6.8	7.2	7.1	7.5	7.9	6.0	6.4	6.3	6.7	7.1
12H	6.7	7.1	7.1	7.5	7.8	5.9	6.3	6.3	6.7	7.1
8H 4H	6.7	7.2	7.1	7.5	7.9	6.0	6.4	6.3	6.7	7.1
6H	6.6	7.0	7.1	7.4	7.8	5.8	6.2	6.3	6.6	7.0
8H	6.6	6.9	7.0	7.3	7.8	5.8	6.1	6.2	6.5	7.0
12H	6.5	6.8	7.0	7.2	7.7	5.7	6.0	6.2	6.4	6.9
12H 4H	6.7	7.1	7.1	7.5	7.8	5.9	6.3	6.3	6.7	7.0
6H	6.6	6.9	7.0	7.3	7.8	5.8	6.1	6.2	6.5	7.0
8H	6.5	6.8	7.0	7.2	7.7	5.7	6.0	6.2	6.4	6.9
Variations with the observer position at spacings:										
S = 1.0H	+ 4.3 / -13.6					+ 3.7 / -12.9				
1.5H	+ 7.1 / -13.2					+ 6.5 / -12.5				
2.0H	+ 5.0 / - 1.1					+ 3.5 / - 0.7				

CIE Pub.117 Corrected 1053 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.2)

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 Humidity:52%
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UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0643A P:12.77W PF:0.9005 Lamp Flux:1053.24x1 lm		
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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) $k(RI) \times RCR = 5$									
$k = 0.60$	91	86	82	91	85	82	90	85	82	79
0.80	98	93	90	98	93	90	96	92	89	86
1.00	102	97	94	101	96	93	100	96	93	89
1.25	105	101	98	104	100	97	103	99	97	93
1.50	108	104	101	107	103	100	104	101	99	95
2.00	110	106	103	109	105	103	106	103	101	96
2.50	111	108	105	110	107	104	107	104	103	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	111	109	109	107	106	99
5.00	116	114	112	114	112	111	110	109	107	100
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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Conical surface Flux(90deg):

1051.6 lm

%lum = 99.8%

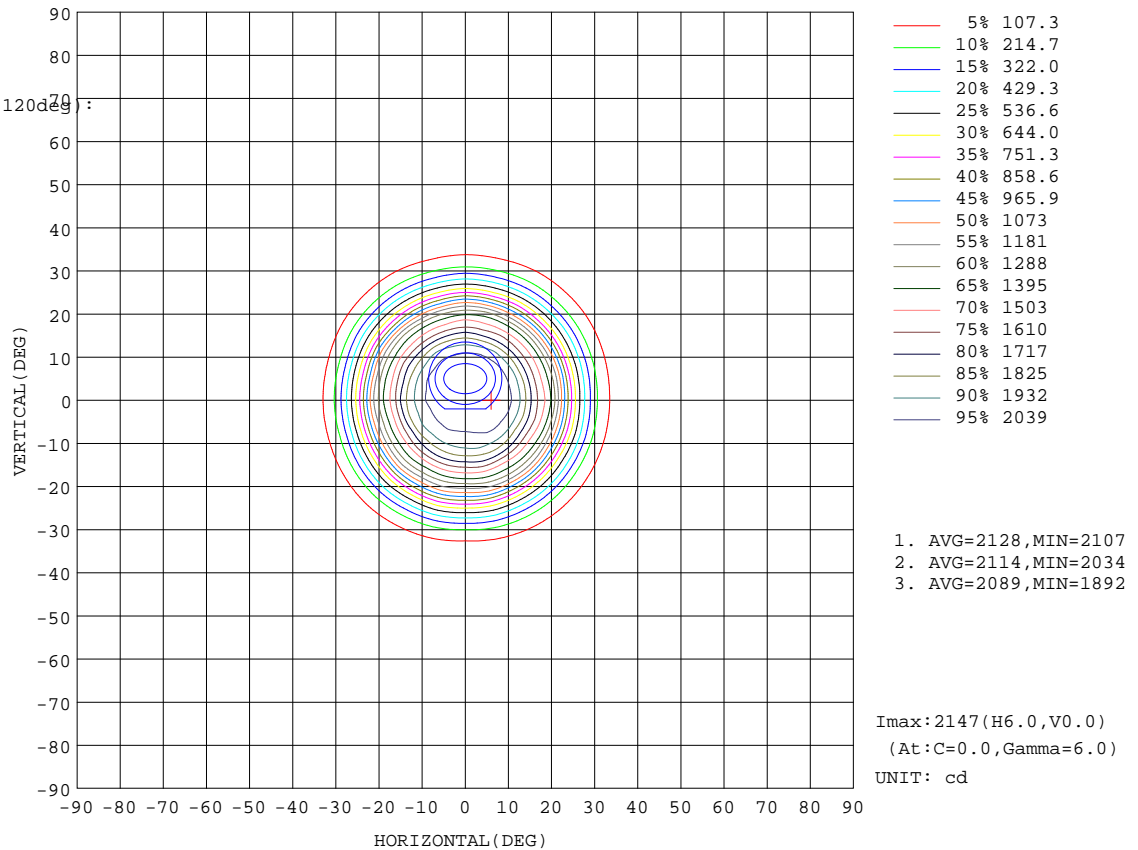
%lamp = 99.8%

Conical surface Flux(120deg):

1052.6 lm

%lum = 99.9%

%lamp = 99.9%

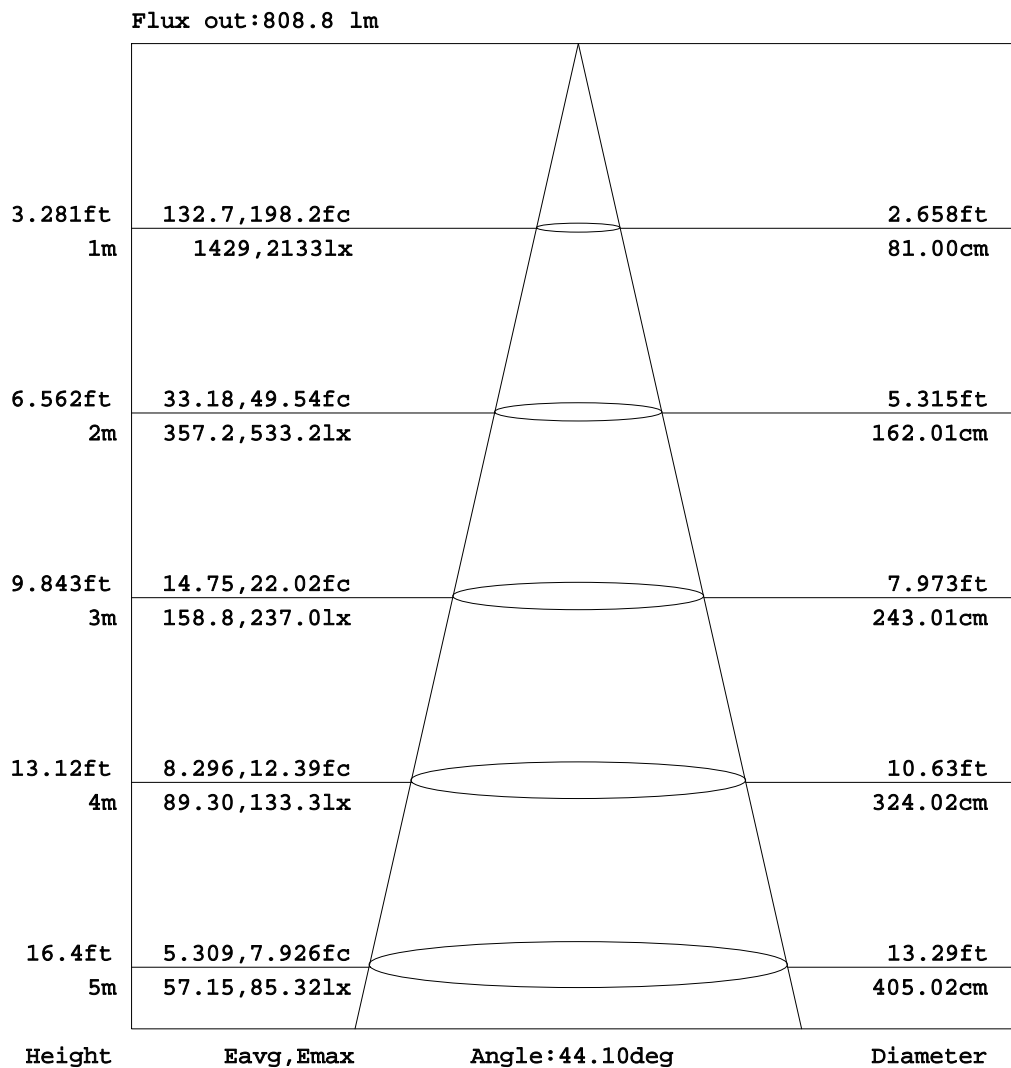


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AAI Figure

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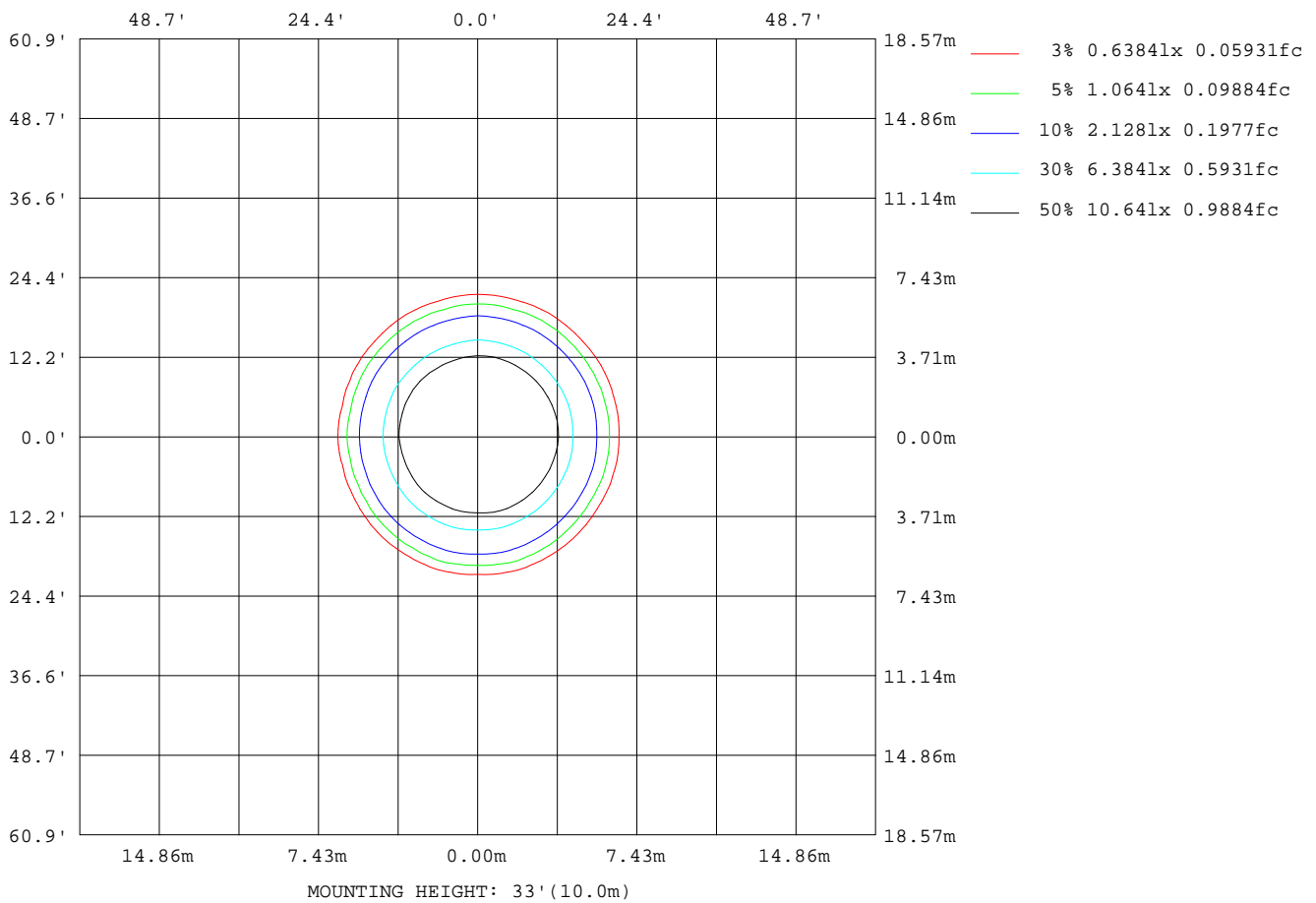
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

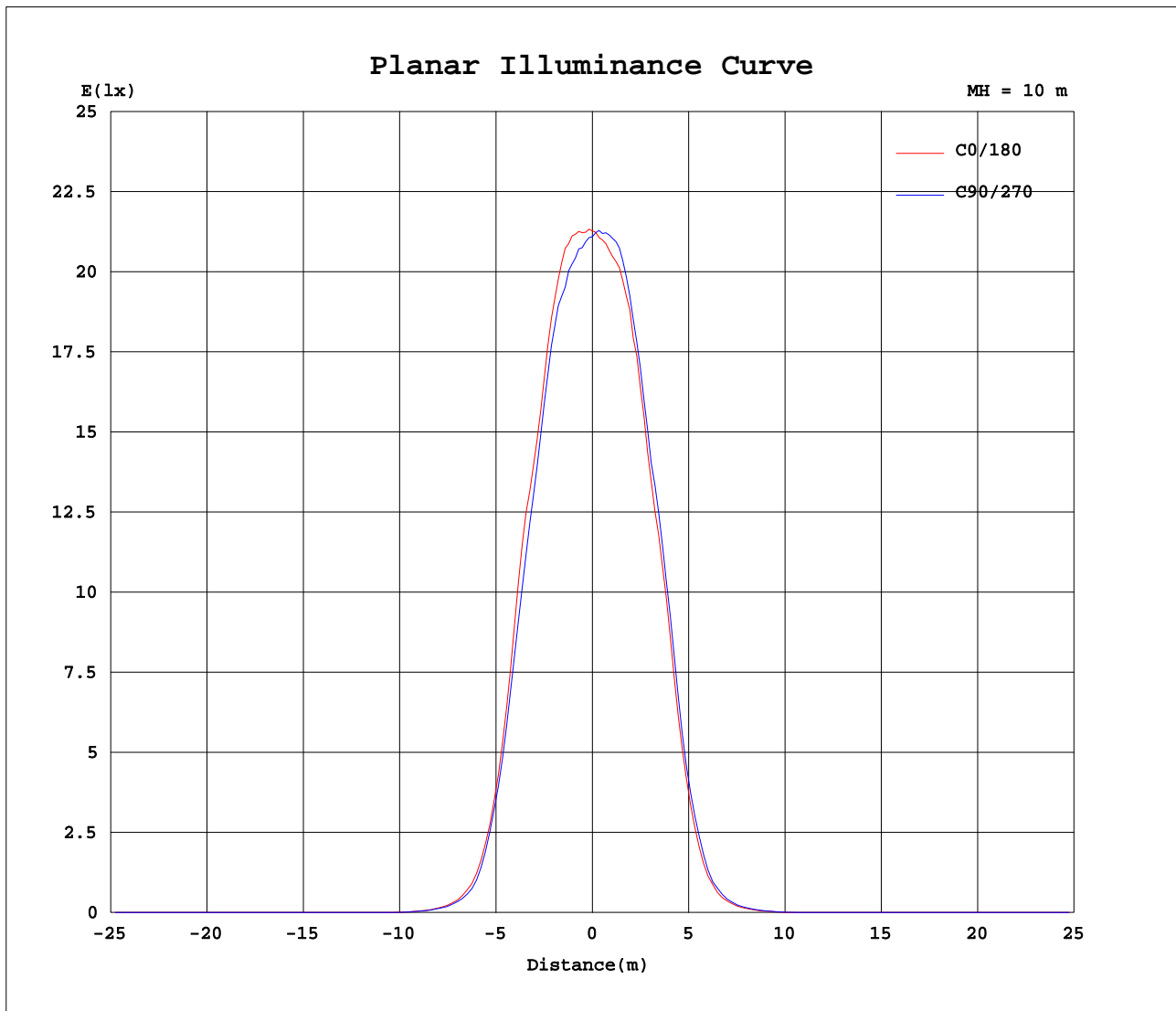
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Planar Illuminance Curve



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Table--1

UNIT: cd

[illegible]

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Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-06-11

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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	2128	2126	2123	2123	2113	2113	2110	2104	2107	2108
3.0	2131	2127	2126	2110	2101	2094	2084	2080	2093	2086
6.0	2147	2130	2124	2098	2082	2079	2058	2058	2069	2069
9.0	2107	2091	2071	2054	2035	2015	1998	2002	2011	2020
12.0	1983	1955	1936	1921	1913	1908	1892	1892	1881	1874
15.0	1740	1729	1700	1703	1695	1690	1656	1658	1655	1667
18.0	1529	1506	1462	1459	1434	1431	1413	1413	1395	1420
21.0	1266	1216	1190	1187	1169	1163	1119	1151	1126	1162
24.0	837.1	823.9	800.4	787.3	776.4	779.6	761.9	781.8	772.6	777.5
27.0	494.8	492.7	477.0	471.4	463.7	471.5	454.9	465.2	455.4	465.7
30.0	252.4	249.0	231.9	230.2	228.4	229.7	217.3	227.0	221.8	225.7
33.0	120.5	115.8	110.0	107.4	106.8	103.9	97.90	101.5	100.4	99.59
36.0	57.64	56.79	53.25	52.87	52.03	51.28	49.43	50.54	50.42	49.45
39.0	27.36	27.26	25.41	25.41	25.62	26.00	24.58	25.60	25.12	25.15
42.0	11.97	12.12	12.06	11.57	11.83	11.48	10.79	11.35	11.08	10.75
45.0	2.785	2.752	2.410	2.369	2.324	2.256	2.050	2.277	2.093	2.260
48.0	0.8729	0.8437	0.8291	0.8108	0.8095	0.7890	0.7832	0.7802	0.7767	0.7846
51.0	0.7613	0.7496	0.7241	0.7037	0.7044	0.6863	0.6782	0.6754	0.6870	0.6885
54.0	0.6607	0.6491	0.6300	0.6142	0.6103	0.6054	0.5950	0.5902	0.5972	0.5989
57.0	0.5666	0.5573	0.5425	0.5355	0.5316	0.5267	0.5163	0.5159	0.5228	0.5202
60.0	0.4835	0.4742	0.4616	0.4633	0.4594	0.4567	0.4507	0.4459	0.4506	0.4502
63.0	0.4004	0.3933	0.3829	0.3890	0.3916	0.3868	0.3808	0.3846	0.3829	0.3780
66.0	0.3348	0.3278	0.3216	0.3256	0.3303	0.3300	0.3238	0.3234	0.3260	0.3191
69.0	0.2735	0.2710	0.2691	0.2666	0.2800	0.2753	0.2670	0.2688	0.2735	0.2666
72.0	0.2211	0.2163	0.2253	0.2185	0.2297	0.2251	0.2276	0.2251	0.2276	0.2185
75.0	0.1773	0.1704	0.1794	0.1748	0.1925	0.1770	0.1903	0.1749	0.1839	0.1726
78.0	0.1445	0.1289	0.1444	0.1311	0.1489	0.1398	0.1510	0.1376	0.1510	0.1355
81.0	0.1007	0.0917	0.1116	0.0939	0.1116	0.0939	0.1116	0.0961	0.1138	0.0983
84.0	0.0744	0.0656	0.0875	0.0677	0.0919	0.0677	0.0897	0.0699	0.0854	0.0677
87.0	0.0504	0.0503	0.0656	0.0503	0.0679	0.0503	0.0679	0.0503	0.0635	0.0503
90.0	0.0503	0.0503	0.0568	0.0503	0.0525	0.0503	0.0503	0.0503	0.0525	0.0503
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2112	2112	2128	2126	2123	2123	2113	2113	2110	2104
3.0	2094	2081	2108	2109	2118	2120	2121	2124	2128	2123
6.0	2078	2074	2082	2096	2109	2115	2115	2133	2139	2133
9.0	1996	2012	2046	2048	2070	2088	2083	2093	2111	2110
12.0	1896	1887	1917	1930	1945	1948	1986	1975	1979	1983
15.0	1651	1676	1723	1709	1741	1739	1755	1761	1778	1757
18.0	1411	1420	1458	1461	1493	1493	1506	1511	1553	1525
21.0	1145	1154	1209	1206	1233	1249	1229	1250	1273	1285
24.0	769.1	777.0	809.2	802.7	838.8	825.6	841.3	846.4	889.7	870.0
27.0	460.8	459.0	475.5	483.8	504.8	509.8	509.2	512.8	529.8	521.9
30.0	223.3	222.0	236.6	236.4	252.1	255.9	261.8	261.5	278.4	270.0
33.0	99.69	99.22	106.2	106.1	112.3	115.6	123.1	120.3	128.9	123.4
36.0	49.96	49.95	52.54	52.63	56.39	56.64	58.73	57.80	60.64	58.78
39.0	24.18	24.00	25.24	25.30	26.99	27.71	28.18	27.67	29.38	29.26
42.0	10.76	10.51	10.87	11.26	12.17	12.74	12.68	12.73	13.10	12.56
45.0	2.175	2.082	2.374	2.445	3.001	3.235	3.188	2.900	3.182	2.970
48.0	0.8094	0.8065	0.8457	0.8705	0.8983	0.9144	0.9157	0.9209	0.9397	0.9209
51.0	0.7066	0.7103	0.7408	0.7568	0.7802	0.8006	0.8020	0.8115	0.8216	0.8028
54.0	0.6060	0.6185	0.6425	0.6541	0.6775	0.7043	0.6993	0.7109	0.7146	0.7043
57.0	0.5228	0.5376	0.5550	0.5579	0.5790	0.6037	0.6097	0.6168	0.6206	0.6125
60.0	0.4442	0.4567	0.4741	0.4747	0.4917	0.5119	0.5223	0.5250	0.5353	0.5206
63.0	0.3720	0.3802	0.3910	0.3873	0.4108	0.4288	0.4436	0.4485	0.4545	0.4397
66.0	0.3107	0.3147	0.3212	0.3238	0.3408	0.3588	0.3758	0.3763	0.3845	0.3697
69.0	0.2626	0.2578	0.2556	0.2669	0.2753	0.2953	0.3103	0.3150	0.3146	0.3084
72.0	0.2210	0.2097	0.1988	0.2188	0.2206	0.2429	0.2534	0.2604	0.2578	0.2560
75.0	0.1751	0.1638	0.1573	0.1794	0.1769	0.1991	0.1988	0.2101	0.2010	0.2057
78.0	0.1466	0.1201	0.1135	0.1379	0.1376	0.1554	0.1529	0.1707	0.1551	0.1641
81.0	0.1094	0.0852	0.0720	0.1072	0.1004	0.1204	0.1070	0.1247	0.1092	0.1225
84.0	0.0854	0.0634	0.0371	0.0766	0.0677	0.0898	0.0742	0.0898	0.0742	0.0898
87.0	0.0635	0.0503	0.0328	0.0526	0.0306	0.0569	0.0350	0.0548	0.0393	0.0570
90.0	0.0525	0.0503	0.0328	0.0328	0.0306	0.0328	0.0306	0.0328	0.0328	0.0328
G/C	300.0	315.0	330.0	345.0						
0.0	2107	2108	2112	2112						
3.0	2126	2116	2126	2115						
6.0	2138	2133	2141	2130						
9.0	2113	2116	2118	2097						
12.0	1990	1993	1986	1958						
15.0	1758	1757	1751	1745						
18.0	1523	1524	1526	1516						
21.0	1259	1268	1262	1274						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-06-11

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	872.1	862.3	867.2	853.8
27.0	523.8	522.3	515.9	511.9
30.0	274.0	266.3	268.4	264.8
33.0	130.5	122.7	127.6	120.9
36.0	59.94	58.98	59.77	59.61
39.0	30.39	29.96	30.00	29.29
42.0	12.82	12.59	12.66	12.49
45.0	3.258	3.108	3.139	3.035
48.0	0.9069	0.8969	0.8699	0.8575
51.0	0.7889	0.7875	0.7735	0.7612
54.0	0.6928	0.6847	0.6731	0.6650
57.0	0.6053	0.5949	0.5769	0.5666
60.0	0.5200	0.5097	0.4916	0.4812
63.0	0.4391	0.4244	0.4086	0.4004
66.0	0.3628	0.3566	0.3365	0.3347
69.0	0.3059	0.2996	0.2775	0.2778
72.0	0.2491	0.2451	0.2294	0.2276
75.0	0.1945	0.2013	0.1792	0.1816
78.0	0.1550	0.1619	0.1420	0.1466
81.0	0.1070	0.1226	0.1005	0.1116
84.0	0.0698	0.0919	0.0720	0.0853
87.0	0.0371	0.0569	0.0415	0.0591
90.0	0.0328	0.0372	0.0372	0.0415

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γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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