
LED Downlight SENSE Series LE-
S125S1-18W-940-W

Light Output Ratio:	100.0%	
Luminaire Power:	19.89 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-17

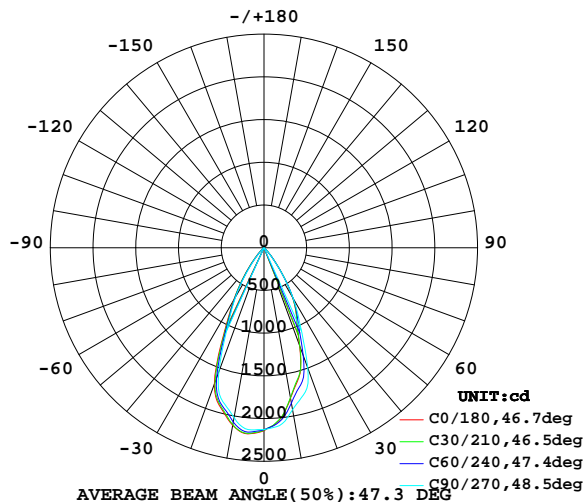
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

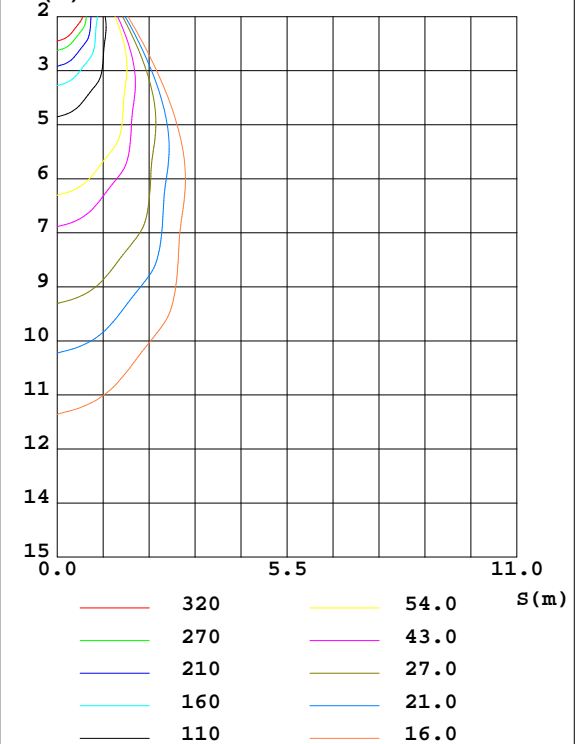
Test:U:220.7V I:0.0954A P:19.89W PF:0.9448 Lamp Flux:1450.29x1 lm		
NAME: S125S1-18W-940-W	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L135mm*W135mm*H157mm	
MFR.:		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.93 lm/W			
MODEL	CITIZEN-4000K	Imax(cd)	2187	S/MH(C0/180)	0.78
NOMINAL POWER(W)	21	LOR(%)	100.0	S/MH(C90/270)	0.76
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1450.3	η UP,DN(C0-180)	0.0,48.8
NOMINAL FLUX(lm)	1450.29	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



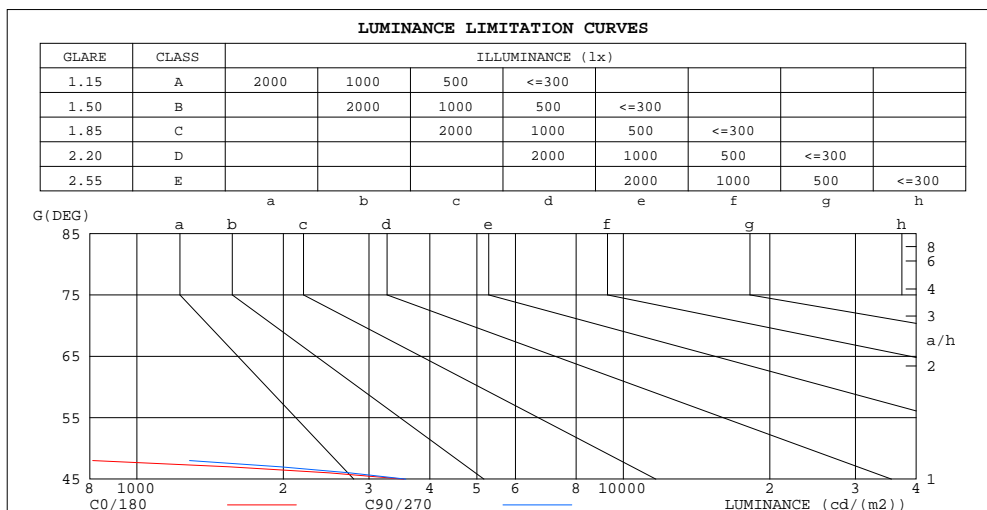
C Range: 0 - 360DEG
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γ Range: 0 - 90DEG
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 Remarks:

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1789	1813	1926	2033	2111	2087	2017	1905	0- 10	196.6	196.6	13.6,13.6
20	1216	1285	1496	1635	1701	1642	1546	1402	10- 20	495.6	692.1	47.7,47.7
30	668.5	677.8	682.5	666.9	709.2	682.3	669.5	675.4	20- 30	467.1	1159	79.9,79.9
40	150.6	155.1	141.8	156.8	191.3	171.7	148.8	152.7	30- 40	239.1	1398	96.4,96.4
50	3.820	18.14	4.587	20.48	9.285	20.84	4.394	15.75	40- 50	48.48	1447	99.8,99.8
60	0.4236	0.9776	0.5374	1.174	0.7326	1.135	0.4881	1.073	50- 60	3.093	1450	100,100
70	0.0988	0.0874	0.1182	0.1158	0.1376	0.1290	0.0958	0.1116	60- 70	0.2824	1450	100,100
80	0.0787	0.0569	0.0700	0.0678	0.0743	0.0656	0.0481	0.0590	70- 80	0.0798	1450	100,100
90	0.0743	0.0678	0.0700	0.0678	0.0590	0.0503	0.0437	0.0459	80- 90	0.0669	1450	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(°)	C0/180	C90/270
85	47	44
80	25	22
75	18	15
70	16	19
65	22	22
60	46	59
55	149	173
50	326	392
45	3542	3572

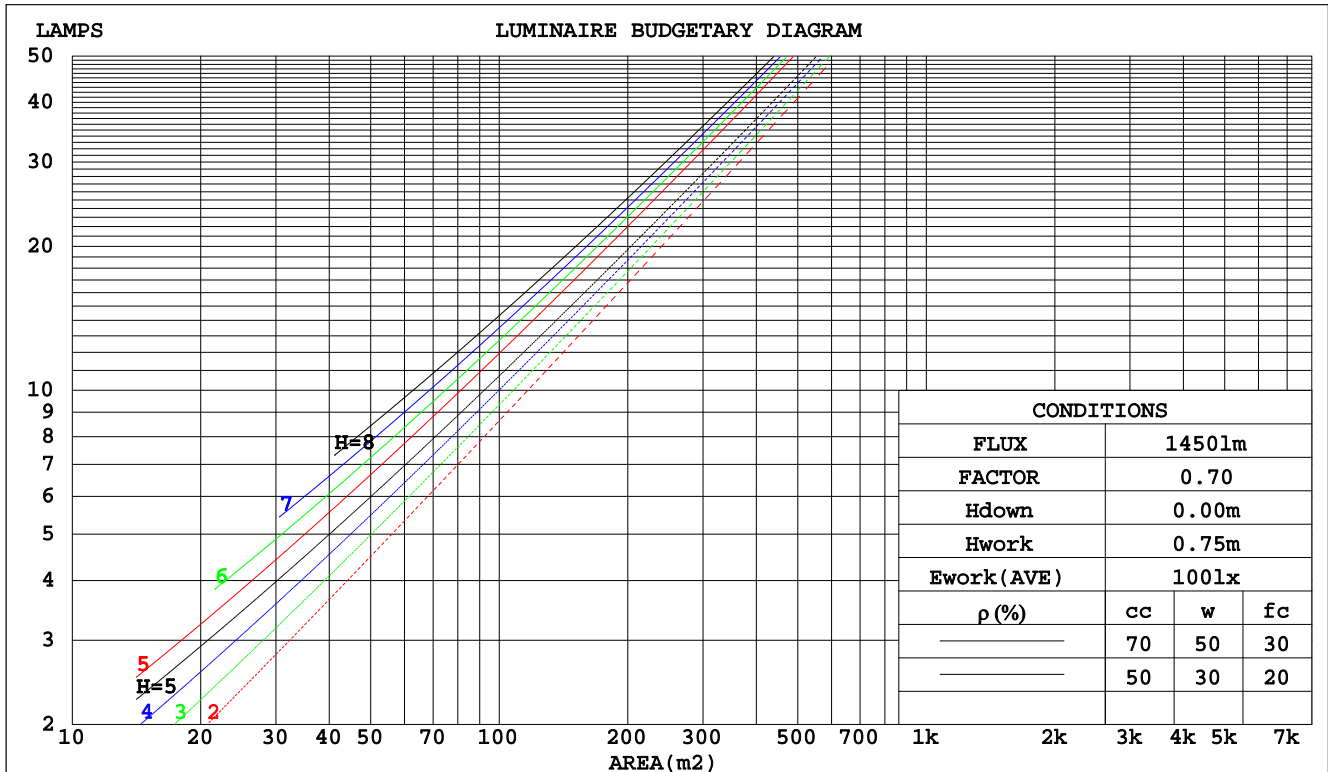
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 Test Date: 2017-07-17

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0954A P:19.89W PF:0.9448 Lamp Flux:1450.29x1 lm		
NAME: S125S1-18W-940-W	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: L135mm*W135mm*H157mm	
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															



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WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.166	.094	.030	.159	.091	.029	.147	.084	.027	.135	.078	.025	.125	.072	.023	
2.0	.158	.087	.027	.153	.084	.026	.142	.079	.025	.132	.074	.023	.123	.070	.022	
3.0	.150	.080	.024	.146	.078	.023	.137	.074	.023	.128	.070	.022	.121	.067	.021	
4.0	.143	.074	.022	.139	.073	.022	.131	.070	.021	.124	.067	.020	.118	.064	.019	
5.0	.136	.070	.020	.133	.068	.020	.126	.066	.019	.120	.063	.019	.114	.061	.018	
6.0	.130	.065	.019	.127	.064	.019	.122	.062	.018	.116	.060	.018	.111	.058	.017	
7.0	.125	.062	.017	.122	.061	.017	.117	.059	.017	.112	.058	.017	.108	.056	.016	
8.0	.120	.058	.016	.117	.058	.016	.113	.056	.016	.108	.055	.016	.104	.054	.016	
9.0	.115	.056	.016	.113	.055	.015	.109	.054	.015	.105	.053	.015	.101	.051	.015	
10.0	.110	.053	.015	.109	.052	.015	.105	.051	.014	.101	.050	.014	.098	.049	.014	

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	.170	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.141	.113	.091	.121	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.045	.068	.047	.031	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.043	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.102	.063	.037	.088	.055	.032	.061	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.097	.058	.032	.083	.050	.028	.058	.035	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.079	.047	.025	.055	.033	.017	.032	.019	.010	.010	.006	.003	

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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:

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0954A P:19.89W PF:0.9448 Lamp Flux:1450.29x1 lm										
NAME: S125S1-18W-940-W					TYPE:Downlight			SERIAL No.:		
SPEC.:4000K					DIM.: L135mm*W135mm*H157mm					
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	13.7	14.6	13.9	14.7	14.9	13.6	14.5	13.8	14.6	14.8
3H	13.5	14.3	13.8	14.5	14.7	13.4	14.2	13.7	14.4	14.6
4H	13.4	14.2	13.7	14.4	14.6	13.3	14.1	13.6	14.3	14.5
6H	13.3	14.1	13.6	14.3	14.5	13.2	14.0	13.5	14.2	14.4
8H	13.3	14.0	13.6	14.2	14.5	13.2	13.9	13.5	14.1	14.4
12H	13.3	13.9	13.6	14.2	14.5	13.2	13.8	13.5	14.1	14.4
4H 2H	13.4	14.2	13.7	14.4	14.6	13.3	14.1	13.6	14.3	14.5
3H	13.3	13.9	13.6	14.2	14.5	13.2	13.8	13.5	14.1	14.4
4H	13.2	13.8	13.5	14.1	14.4	13.1	13.7	13.4	14.0	14.3
6H	13.1	13.6	13.4	13.9	14.3	13.0	13.5	13.3	13.8	14.2
8H	13.0	13.5	13.4	13.8	14.2	12.9	13.4	13.3	13.8	14.1
12H	13.0	13.4	13.4	13.8	14.2	12.9	13.3	13.3	13.7	14.1
8H 4H	13.0	13.5	13.4	13.8	14.2	12.9	13.4	13.3	13.8	14.1
6H	12.9	13.3	13.3	13.7	14.1	12.8	13.2	13.2	13.6	14.0
8H	12.9	13.2	13.3	13.6	14.1	12.8	13.1	13.2	13.5	14.0
12H	12.8	13.1	13.3	13.5	14.0	12.7	13.0	13.2	13.4	13.9
12H 4H	13.0	13.4	13.4	13.8	14.2	12.9	13.3	13.3	13.7	14.1
6H	12.9	13.2	13.3	13.6	14.1	12.8	13.1	13.2	13.5	14.0
8H	12.8	13.1	13.3	13.5	14.0	12.7	13.0	13.2	13.4	13.9
Variations with the observer position at spacings:										
S = 1.0H	+ 3.8 / -26.3					+ 3.8 / -25.5				
1.5H	+ 6.3 / -20.9					+ 6.3 / -20.1				
2.0H	+ 7.9 / -20.2					+ 7.9 / -20.1				

CIE Pub.117 Corrected 1450 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.3)

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0954A P:19.89W PF:0.9448 Lamp Flux:1450.29x1 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) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	80	88	83	80	76
0.80	97	91	88	96	91	87	95	90	87	84
1.00	101	95	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	102	98	95	91
1.50	107	103	99	106	102	99	104	100	98	94
2.00	109	105	103	108	104	102	105	102	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	108	107	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):

1434.8 lm

%lum = 98.9%

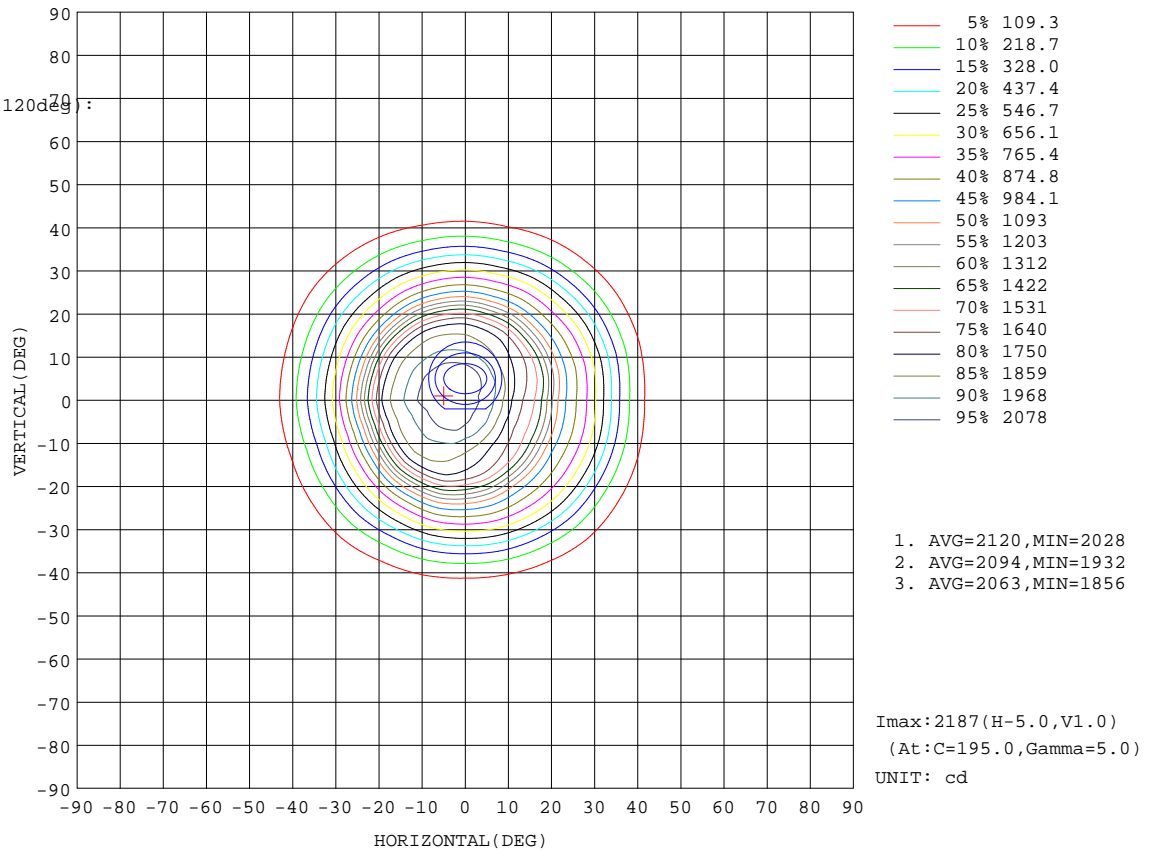
%lamp = 98.9%

Conical surface Flux(120deg):

1449.9 lm

%lum = 100.0%

%lamp = 100.0%

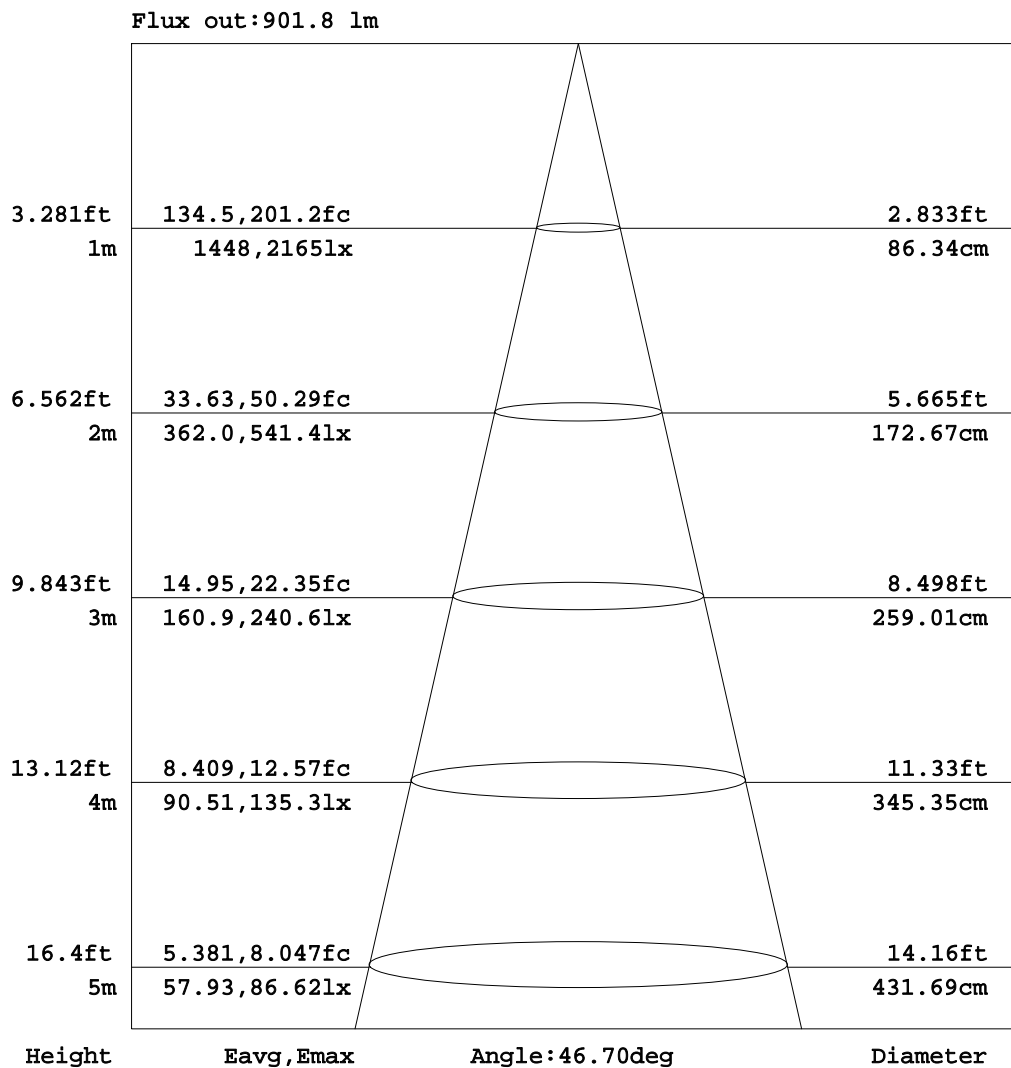


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AAI Figure

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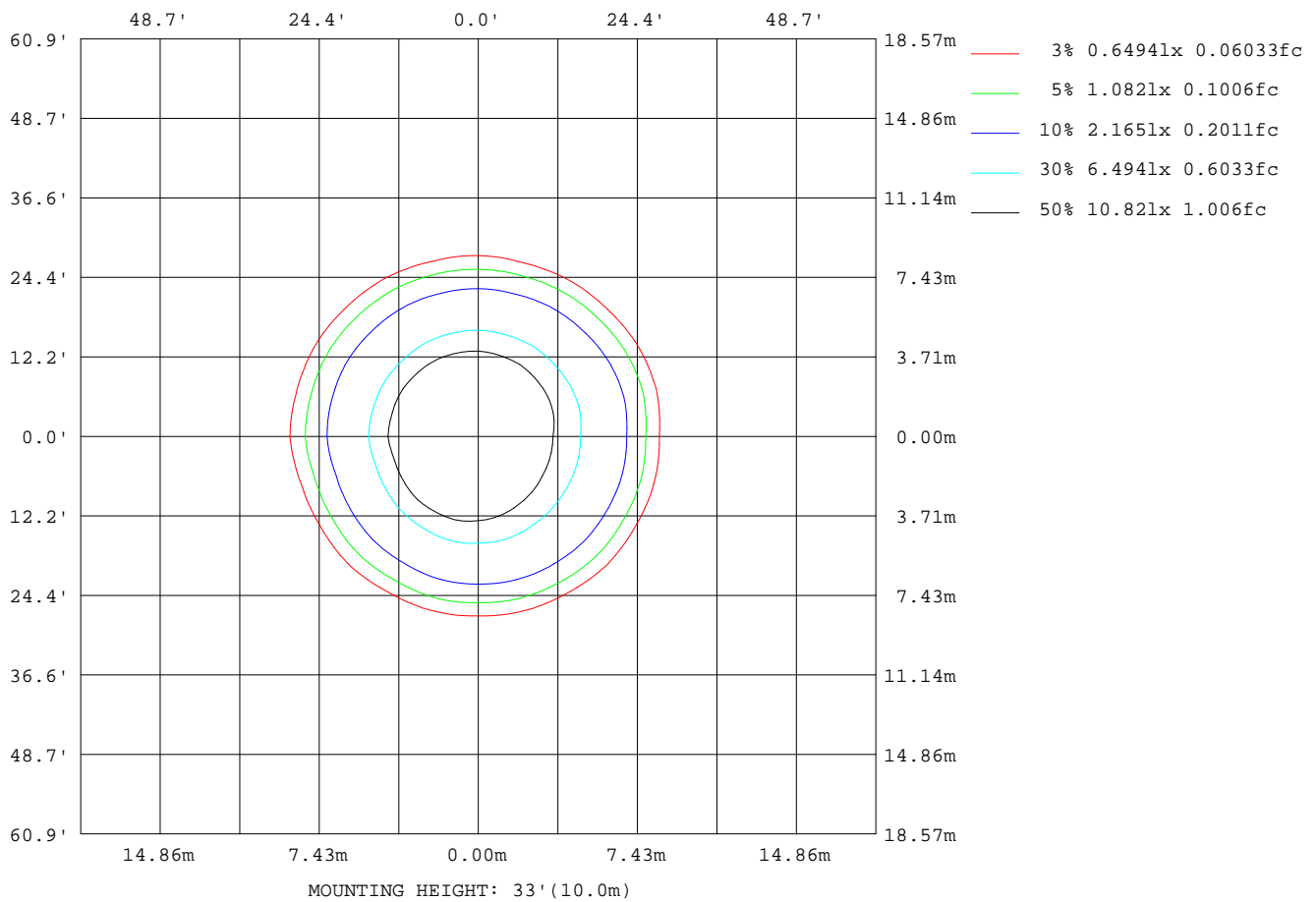
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

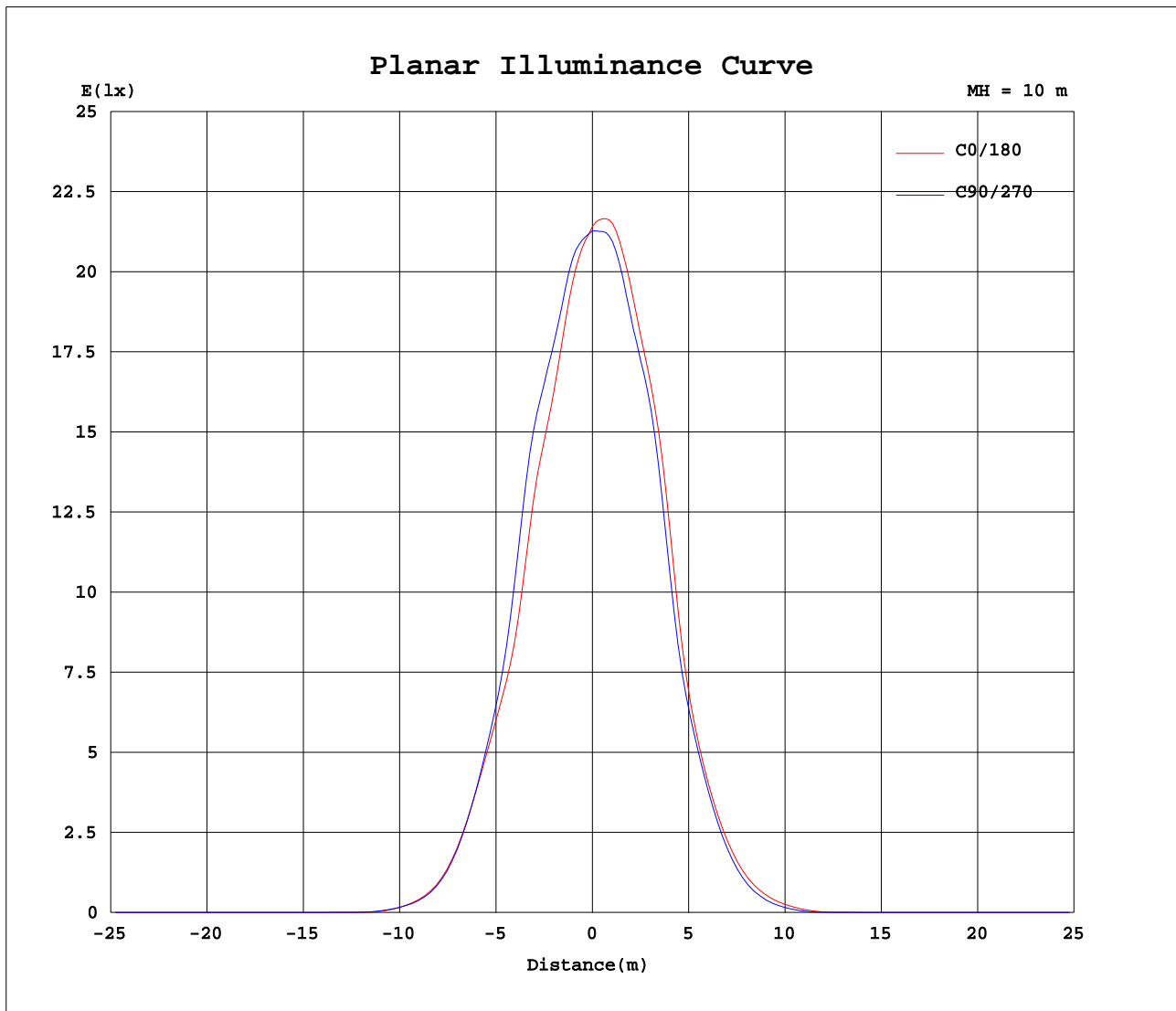
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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UNIT: cd

[illegible]

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Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
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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	2141	2140	2135	2135	2131	2130	2127	2136	2134	2133
3.0	2083	2082	2080	2085	2088	2098	2108	2134	2141	2145
6.0	1992	1990	1989	2005	2019	2048	2069	2102	2115	2136
9.0	1844	1840	1836	1865	1893	1935	1963	2019	2040	2067
12.0	1693	1682	1683	1720	1758	1812	1864	1918	1949	1980
15.0	1577	1559	1565	1605	1663	1728	1784	1849	1885	1908
18.0	1393	1396	1403	1459	1519	1604	1667	1745	1773	1799
21.0	1130	1132	1140	1193	1244	1333	1394	1473	1490	1524
24.0	950.2	951.0	948.5	973.1	999.4	1056	1092	1139	1134	1153
27.0	820.2	824.4	822.2	830.4	844.8	868.4	874.7	892.4	872.0	876.0
30.0	668.5	675.8	671.4	677.8	680.4	687.7	682.5	689.5	668.2	666.9
33.0	490.6	498.9	492.1	498.8	492.6	493.0	484.3	488.5	473.8	476.5
36.0	316.6	323.3	315.6	323.3	314.4	313.7	306.1	312.0	300.9	313.3
39.0	183.7	188.2	182.7	188.5	178.6	179.1	174.3	179.9	175.3	188.7
42.0	99.61	103.9	102.2	103.9	97.28	95.41	93.00	96.38	97.47	107.0
45.0	45.64	51.82	55.10	56.60	51.24	48.52	46.03	49.78	53.84	59.14
48.0	9.893	17.06	24.62	29.91	24.71	19.77	15.65	21.35	26.51	31.97
51.0	3.390	3.551	8.171	13.54	9.293	4.087	3.578	4.866	10.81	15.87
54.0	1.894	2.122	2.646	4.731	2.770	2.352	2.194	2.535	3.226	6.162
57.0	0.9999	1.163	1.516	1.932	1.613	1.275	1.158	1.412	1.801	2.260
60.0	0.4236	0.5299	0.7892	0.9776	0.8135	0.6086	0.5374	0.7025	0.9907	1.174
63.0	0.1817	0.1682	0.3338	0.4492	0.3557	0.2136	0.2021	0.2703	0.4631	0.5868
66.0	0.1619	0.1333	0.1380	0.1680	0.1404	0.1311	0.1597	0.1443	0.1866	0.2509
69.0	0.1335	0.1092	0.1225	0.0961	0.1182	0.1049	0.1313	0.1158	0.1357	0.1246
72.0	0.0875	0.0700	0.0877	0.0720	0.0877	0.0634	0.0766	0.0678	0.1051	0.0917
75.0	0.0853	0.0700	0.0656	0.0590	0.0612	0.0634	0.0722	0.0678	0.0678	0.0656
78.0	0.0809	0.0700	0.0656	0.0568	0.0590	0.0634	0.0722	0.0678	0.0678	0.0656
81.0	0.0765	0.0700	0.0656	0.0590	0.0569	0.0656	0.0700	0.0700	0.0634	0.0678
84.0	0.0744	0.0700	0.0656	0.0634	0.0568	0.0678	0.0700	0.0700	0.0634	0.0678
87.0	0.0743	0.0722	0.0656	0.0678	0.0568	0.0678	0.0700	0.0700	0.0634	0.0678
90.0	0.0743	0.0722	0.0656	0.0678	0.0656	0.0678	0.0700	0.0700	0.0656	0.0678
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2132	2128	2141	2135	2135	2131	2130	2127	2136	2133
3.0	2149	2151	2174	2172	2167	2162	2154	2146	2135	2133
6.0	2146	2149	2186	2184	2179	2172	2163	2146	2128	2112
9.0	2074	2083	2136	2131	2132	2115	2103	2078	2058	2027
12.0	1981	1994	2048	2036	2035	2015	1997	1971	1948	1915
15.0	1904	1905	1945	1929	1931	1911	1908	1884	1866	1832
18.0	1788	1782	1832	1814	1814	1795	1784	1750	1730	1677
21.0	1501	1505	1605	1575	1578	1533	1511	1463	1434	1377
24.0	1127	1130	1236	1201	1197	1162	1148	1111	1095	1058
27.0	857.3	861.0	925.3	906.8	901.4	880.4	880.7	864.9	859.9	843.1
30.0	656.8	656.9	709.2	700.3	702.0	682.3	686.9	671.9	669.5	659.2
33.0	471.3	471.0	521.3	517.6	519.9	501.9	499.8	482.7	479.9	470.9
36.0	307.1	313.7	357.6	353.4	354.4	337.2	331.4	314.0	311.5	302.0
39.0	185.1	193.3	226.4	220.6	219.3	206.4	198.1	184.7	182.2	173.6
42.0	106.7	111.7	135.5	128.9	128.7	117.1	109.8	99.55	96.23	90.81
45.0	59.67	59.50	72.85	70.49	70.31	63.64	57.67	50.25	44.71	42.94
48.0	28.95	23.76	28.20	30.21	35.31	33.43	27.84	17.94	12.86	15.09
51.0	11.28	4.811	4.741	6.759	13.81	15.90	10.54	3.988	3.654	3.759
54.0	3.145	2.400	2.593	2.766	4.053	6.094	3.136	2.296	2.101	2.193
57.0	1.707	1.334	1.449	1.527	1.994	2.225	1.717	1.229	1.080	1.172
60.0	0.9206	0.6720	0.7326	0.7734	1.073	1.135	0.9073	0.5829	0.4881	0.5588
63.0	0.4323	0.2638	0.2941	0.3204	0.4990	0.5569	0.4140	0.2173	0.1660	0.2107
66.0	0.1800	0.1442	0.1683	0.1685	0.1809	0.2390	0.1484	0.1553	0.1442	0.1553
69.0	0.1356	0.1245	0.1442	0.1487	0.1158	0.1335	0.1115	0.1356	0.1113	0.1334
72.0	0.1095	0.0765	0.0940	0.1096	0.0916	0.1138	0.0872	0.0811	0.0634	0.0788
75.0	0.0766	0.0743	0.0918	0.0962	0.0656	0.0766	0.0590	0.0765	0.0590	0.0722
78.0	0.0743	0.0743	0.0809	0.0940	0.0569	0.0700	0.0503	0.0700	0.0546	0.0656
81.0	0.0743	0.0743	0.0721	0.0853	0.0524	0.0656	0.0503	0.0656	0.0459	0.0612
84.0	0.0743	0.0743	0.0634	0.0766	0.0503	0.0591	0.0503	0.0634	0.0437	0.0547
87.0	0.0743	0.0743	0.0590	0.0700	0.0503	0.0569	0.0503	0.0569	0.0437	0.0525
90.0	0.0743	0.0743	0.0590	0.0547	0.0525	0.0503	0.0503	0.0459	0.0437	0.0459
G/C	300.0	315.0	330.0	345.0						
0.0	2134	2133	2132	2128						
3.0	2119	2106	2091	2078						
6.0	2091	2060	2039	2012						
9.0	1996	1951	1925	1889						
12.0	1880	1828	1788	1742						
15.0	1792	1735	1684	1630						
18.0	1648	1584	1541	1485						
21.0	1356	1299	1272	1221						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-07-17

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	1055	1024	1015	992.8
27.0	853.7	842.4	854.3	854.8
30.0	678.8	675.4	701.0	702.6
33.0	490.0	494.6	519.8	525.9
36.0	316.5	323.3	343.5	347.6
39.0	182.4	187.3	201.6	205.9
42.0	96.36	100.0	108.5	112.3
45.0	48.53	52.61	55.75	57.22
48.0	22.48	25.81	26.10	21.50
51.0	8.485	11.97	10.17	4.195
54.0	2.886	4.811	3.153	2.412
57.0	1.636	2.062	1.809	1.365
60.0	0.8594	1.073	1.003	0.6639
63.0	0.3943	0.5174	0.4597	0.2372
66.0	0.1376	0.2171	0.1461	0.1553
69.0	0.1114	0.1203	0.1027	0.1312
72.0	0.0763	0.0941	0.0787	0.0811
75.0	0.0437	0.0656	0.0655	0.0765
78.0	0.0437	0.0568	0.0459	0.0722
81.0	0.0437	0.0547	0.0437	0.0634
84.0	0.0437	0.0525	0.0437	0.0569
87.0	0.0437	0.0503	0.0437	0.0503
90.0	0.0437	0.0459	0.0437	0.0459

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-17

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: