

LED Downlight SENSE Series S68R1-11W-940-M



Light Output Ratio:	100.0%	
Luminaire Power:	12.88 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: 2017-08-11

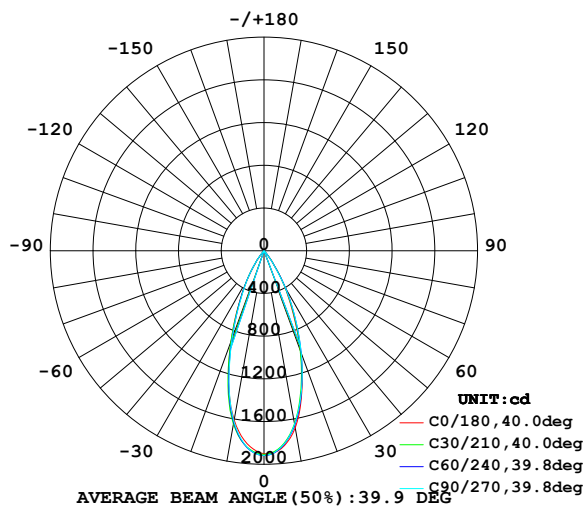
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

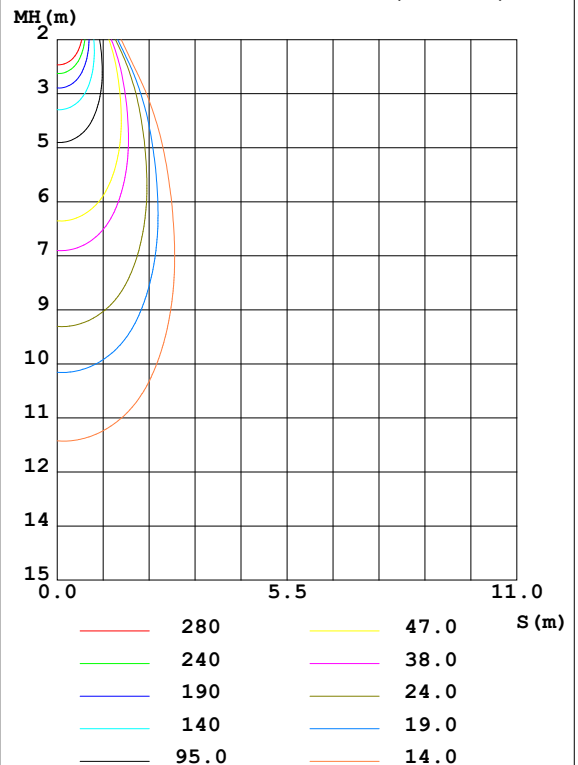
Test:U:220.7V I:0.0655A P:12.88W PF:0.8965 Lamp Flux:929.113x1 lm		
NAME: S68R1-11W-940-M	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 78mm*H98mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.12 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	1930	S/MH (C0/180)	0.63
NOMINAL POWER (W)	13.0	LOR (%)	100.0	S/MH (C90/270)	0.62
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	929.11	η UP, DN (C0-180)	0.0, 51.3
NOMINAL FLUX (lm)	929.113	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.7
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)



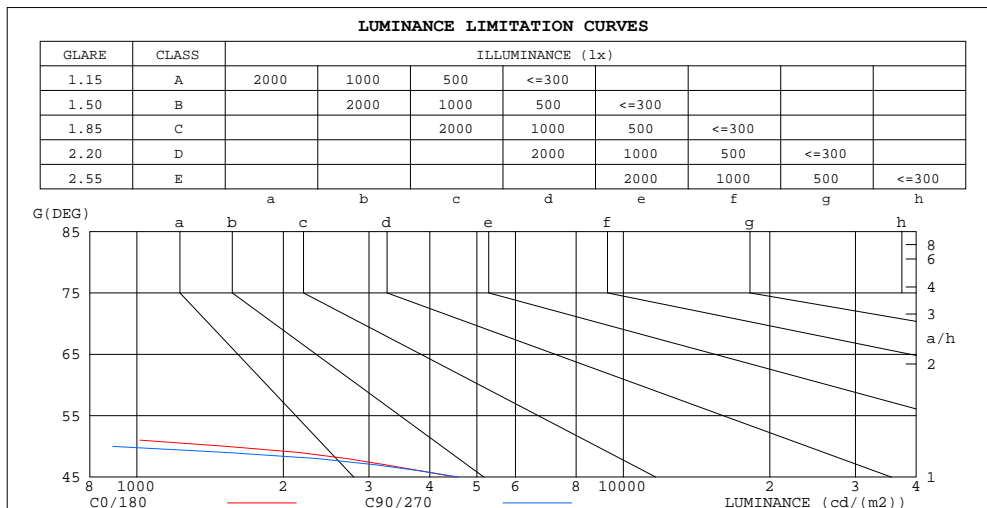
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Remarks:

**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	1685	1647	1651	1589	1611	1641	1622	1697	0- 10	169.8	169.8	18.3,18.3
20	999.1	998.4	1022	920.6	903.6	882.1	871.9	962.3	10- 20	361.6	531.4	57.2,57.2
30	387.0	407.8	395.7	330.2	319.3	315.9	323.0	345.0	20- 30	281.0	812.4	87.4,87.4
40	51.61	52.99	45.10	35.47	36.21	38.34	40.26	44.93	30- 40	102.8	915.2	98.5,98.5
50	4.698	4.309	2.739	2.218	2.542	2.665	2.907	4.058	40- 50	12.63	927.8	99.9,99.9
60	0.4579	0.4498	0.4094	0.3167	0.3602	0.4051	0.3929	0.3943	50- 60	0.9432	928.8	100,100
70	0.1160	0.1136	0.1378	0.1027	0.0874	0.1050	0.0699	0.0963	60- 70	0.2180	929.0	100,100
80	0.0591	0.0503	0.0788	0.0502	0.0416	0.0635	0.0371	0.0503	70- 80	0.0799	929.1	100,100
90	0.0415	0.0459	0.0437	0.0437	0.0437	0.0306	0.0262	0.0284	80- 90	0.0480	929.1	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	121	116
80	71	95
75	67	87
70	71	84
65	115	117
60	192	171
55	285	246
50	1530	892
45	4537	4588

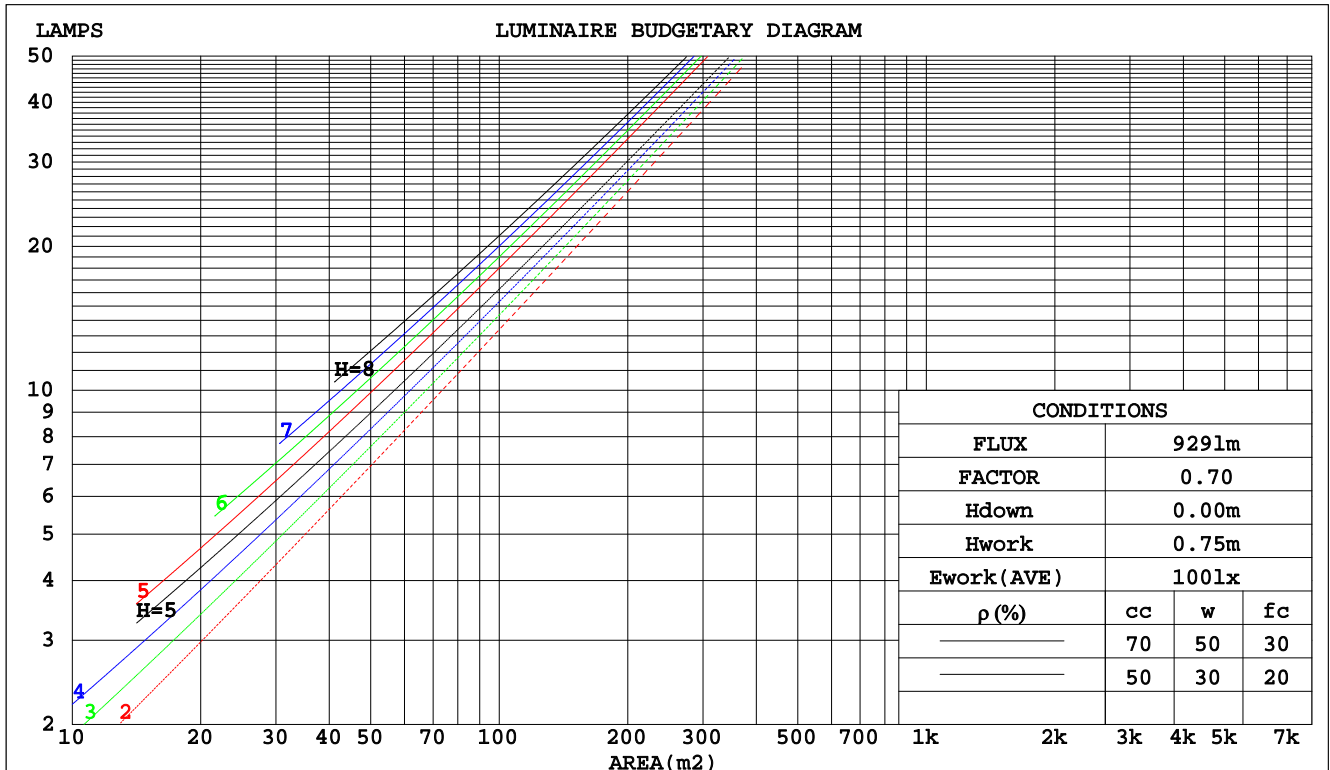
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0655A P:12.88W PF:0.8965 Lamp Flux:929.113x1 lm		
NAME: S68R1-11W-940-M	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 78mm*H98mm	
MFR.: NEKO LIGHTING AG		

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	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	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.05	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.93	.92	.90
3.0	.00	.95	.92	.98	.94	.91	.96	.93	.90	.93	.91	.89	.91	.89	.87	.86
4.0	.95	.90	.86	.93	.89	.86	.91	.88	.85	.89	.86	.84	.88	.85	.83	.81
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.86	.82	.79	.84	.81	.79	.78
6.0	.85	.80	.77	.85	.80	.77	.83	.79	.76	.82	.78	.76	.81	.78	.75	.74
7.0	.82	.76	.73	.81	.76	.73	.80	.75	.72	.79	.75	.72	.78	.74	.72	.70
8.0	.78	.73	.69	.77	.73	.69	.76	.72	.69	.75	.71	.69	.75	.71	.68	.67
9.0	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.72	.68	.65	.64
10.0	.71	.66	.63	.71	.66	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.62



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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	.156	.089	.028	.150	.085	.027	.137	.079	.025	.126	.073	.023	.115	.067	.022	
2.0	.148	.081	.025	.142	.078	.024	.132	.073	.023	.122	.069	.021	.113	.064	.020	
3.0	.140	.074	.022	.135	.072	.022	.126	.068	.021	.118	.065	.020	.111	.061	.019	
4.0	.132	.069	.020	.128	.067	.020	.121	.064	.019	.114	.061	.018	.108	.058	.018	
5.0	.126	.064	.019	.123	.063	.018	.116	.060	.018	.110	.058	.017	.104	.056	.017	
6.0	.120	.060	.017	.117	.059	.017	.112	.057	.017	.106	.055	.016	.101	.053	.016	
7.0	.115	.057	.016	.112	.056	.016	.107	.054	.016	.103	.053	.015	.098	.051	.015	
8.0	.110	.054	.015	.108	.053	.015	.103	.052	.015	.099	.050	.015	.095	.049	.014	
9.0	.106	.051	.014	.104	.051	.014	.100	.049	.014	.096	.048	.014	.093	.047	.014	
10.0	.102	.049	.014	.100	.048	.013	.096	.047	.013	.093	.046	.013	.090	.045	.013	

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	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.139	.113	.093	.119	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011	
4.0	.128	.098	.076	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.119	.086	.063	.102	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008	
6.0	.111	.077	.053	.095	.067	.046	.066	.047	.032	.038	.027	.019	.012	.009	.006	
7.0	.104	.069	.045	.089	.060	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005	
8.0	.098	.063	.038	.084	.054	.033	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.093	.057	.033	.080	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.088	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004	

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 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:0.0655A P:12.88W PF:0.8965 Lamp Flux:929.113x1 lm										
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SPEC.:4000K					DIM.: ϕ 78mm*H98mm					
MFR.: NEKO LIGHTING AG										
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	15.0	15.8	15.2	16.0	16.2	14.8	15.6	15.1	15.8	16.0
3H	14.9	15.6	15.1	15.8	16.0	14.7	15.4	14.9	15.6	15.8
4H	14.8	15.5	15.1	15.7	15.9	14.6	15.3	14.9	15.5	15.7
6H	14.7	15.4	15.0	15.6	15.8	14.5	15.2	14.8	15.4	15.6
8H	14.7	15.3	15.0	15.5	15.8	14.5	15.1	14.8	15.4	15.6
12H	14.6	15.2	14.9	15.5	15.8	14.4	15.0	14.7	15.3	15.6
4H 2H	14.8	15.5	15.1	15.7	15.9	14.6	15.3	14.9	15.5	15.7
3H	14.6	15.2	14.9	15.5	15.8	14.4	15.0	14.7	15.3	15.6
4H	14.5	15.1	14.9	15.4	15.7	14.3	14.9	14.7	15.2	15.5
6H	14.4	14.9	14.8	15.2	15.6	14.2	14.7	14.6	15.0	15.4
8H	14.4	14.8	14.8	15.2	15.5	14.2	14.6	14.6	15.0	15.3
12H	14.3	14.7	14.7	15.1	15.5	14.1	14.5	14.5	14.9	15.3
8H 4H	14.4	14.8	14.8	15.2	15.5	14.2	14.6	14.6	15.0	15.3
6H	14.3	14.6	14.7	15.0	15.4	14.1	14.4	14.5	14.8	15.2
8H	14.2	14.5	14.6	14.9	15.4	14.0	14.3	14.5	14.8	15.2
12H	14.1	14.4	14.6	14.9	15.3	14.0	14.2	14.4	14.7	15.1
12H 4H	14.3	14.7	14.7	15.1	15.5	14.1	14.5	14.5	14.9	15.3
6H	14.2	14.5	14.6	14.9	15.4	14.0	14.3	14.5	14.8	15.2
8H	14.1	14.4	14.6	14.9	15.3	14.0	14.2	14.4	14.7	15.1
Variations with the observer position at spacings:										
S = 1.0H	+ 4.2 / -22.8					+ 4.2 / -22.3				
1.5H	+ 6.8 / -21.2					+ 6.8 / -20.8				
2.0H	+ 7.2 / -13.1					+ 7.4 / -13.0				

CIE Pub.117 Corrected 929.1 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.3)

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Remarks:

UTILIZATION FACTORS TABLE

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SPEC.:4000K	DIM.: ϕ 78mm*H98mm	
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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) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	92	89	85
1.00	102	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	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):

924.54 lm

%lum = 99.5%

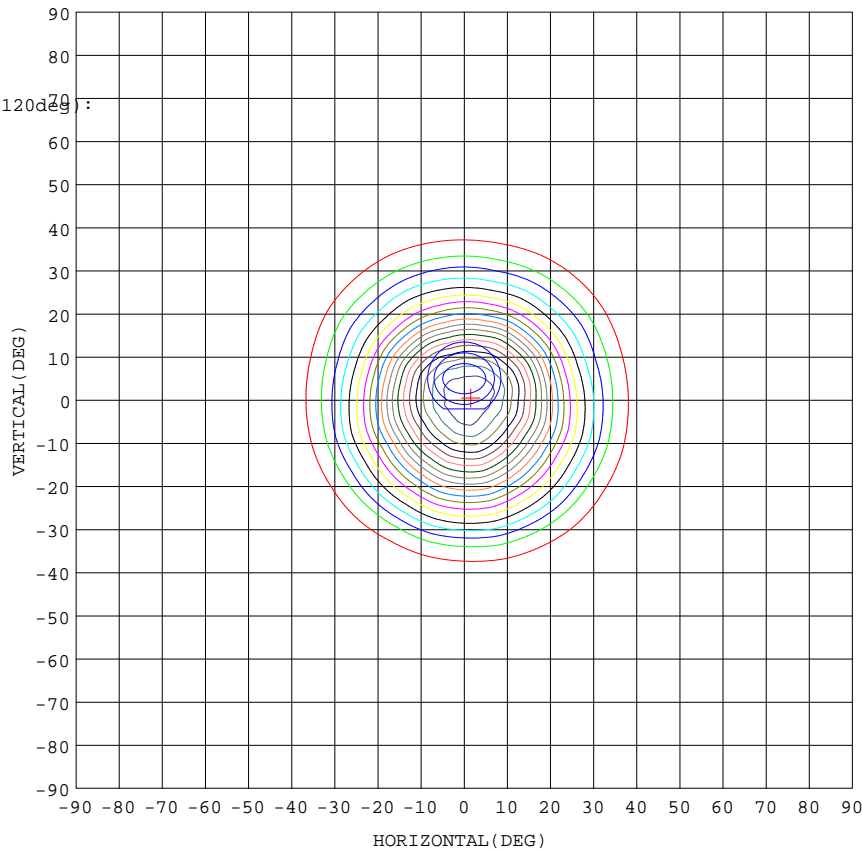
%lamp = 99.5%

Conical surface Flux(120deg):

928.77 lm

%lum = 100.0%

%lamp = 100.0%



1. AVG=1826,MIN=1699
2. AVG=1794,MIN=1557
3. AVG=1748,MIN=1386

Imax:1927(H1.5,V0.5)
(At:C=345.0,Gamma=1.0)

UNIT: cd

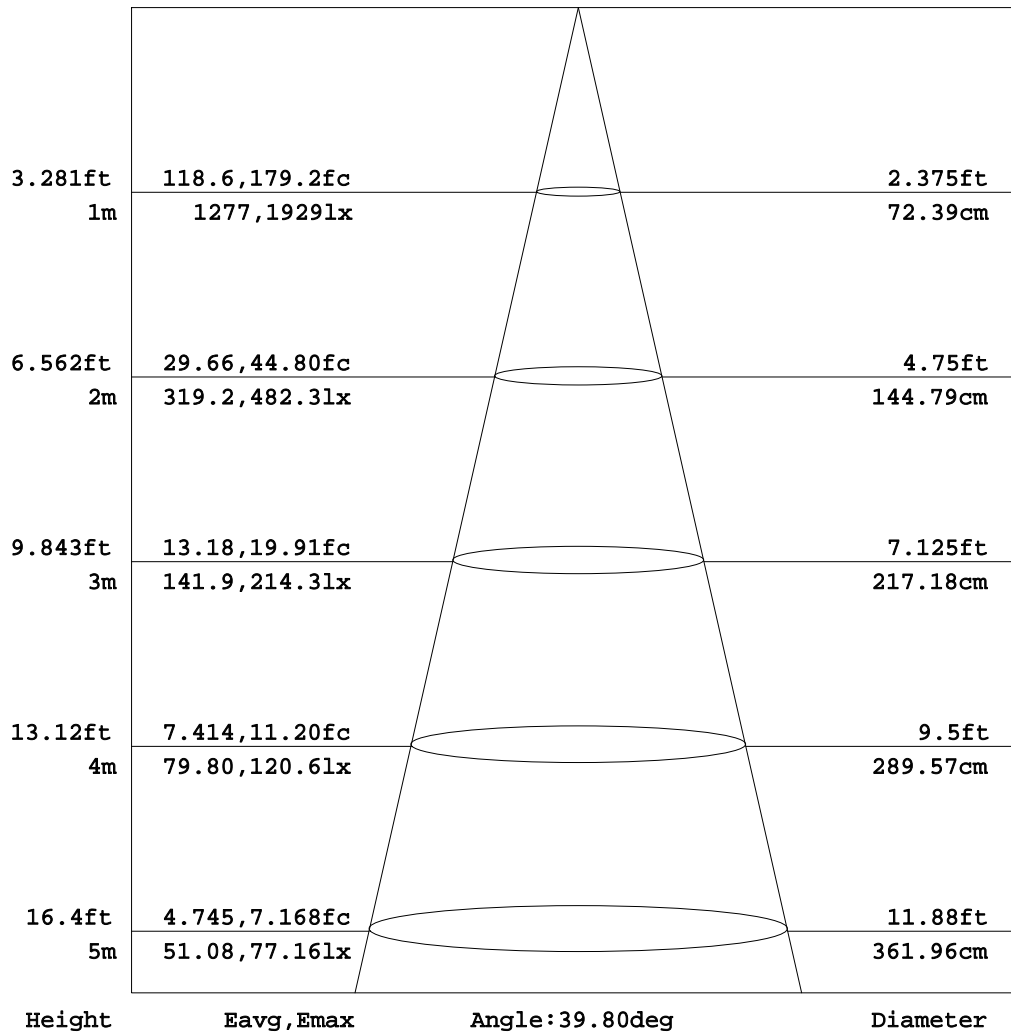
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AAI Figure

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Flux out:531.4 lm



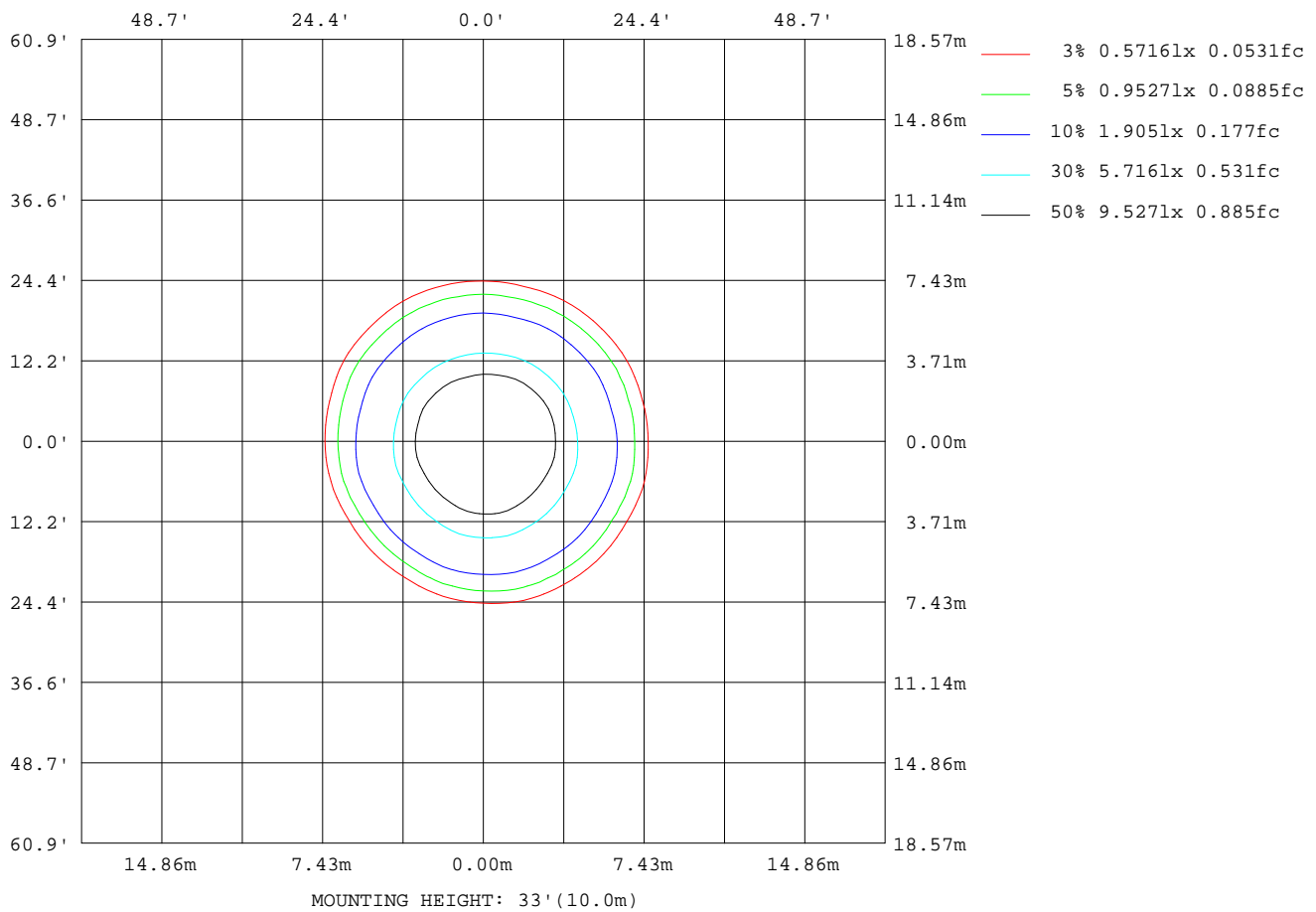
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

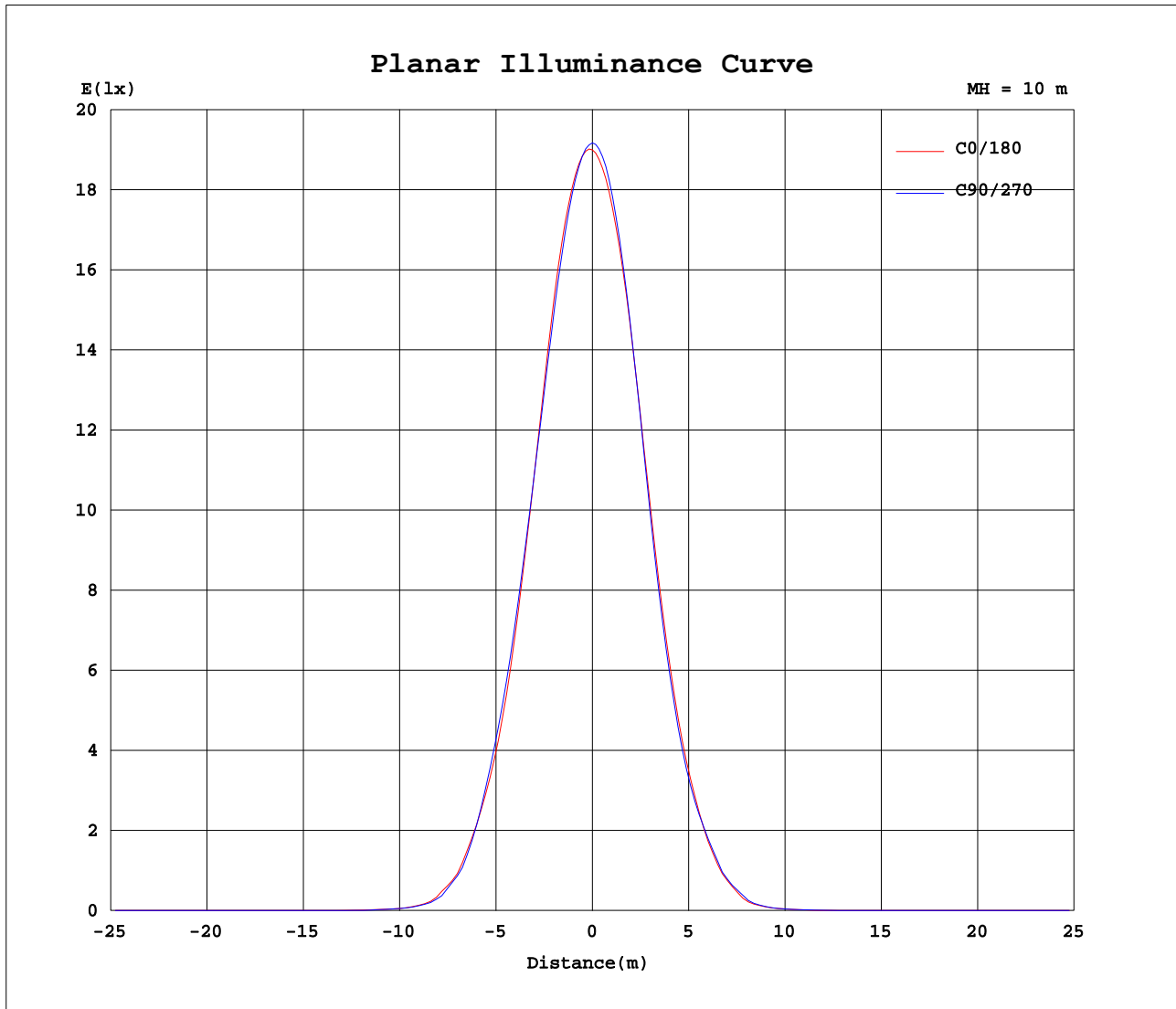
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Planar Illuminance Curve



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```

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	1900	1903	1906	1911	1918	1919	1917	1917	1916	1918
3.0	1891	1890	1882	1885	1894	1899	1891	1884	1872	1870
6.0	1835	1832	1812	1811	1822	1832	1819	1807	1786	1778
9.0	1731	1727	1695	1695	1708	1722	1699	1685	1653	1643
12.0	1574	1572	1534	1535	1552	1566	1541	1525	1486	1473
15.0	1372	1375	1338	1344	1360	1381	1355	1336	1289	1274
18.0	1150	1164	1131	1138	1154	1179	1159	1137	1086	1062
21.0	922.5	943.8	923.5	933.3	950.5	972.6	952.7	932.1	878.4	851.8
24.0	708.5	738.9	726.1	741.4	750.7	769.8	753.1	735.1	687.2	664.9
27.0	531.6	558.4	550.4	565.8	569.3	587.6	572.4	551.5	509.3	493.1
30.0	387.0	403.6	392.6	407.8	407.9	417.1	395.7	381.8	345.7	330.2
33.0	254.6	264.8	251.4	258.0	254.8	255.5	236.1	221.2	190.0	182.7
36.0	142.0	148.9	141.0	145.7	142.8	144.8	133.3	122.8	108.6	105.2
39.0	70.79	76.08	68.85	70.96	71.49	64.19	60.45	51.56	44.22	43.31
42.0	32.45	34.85	33.46	35.10	33.74	33.10	29.83	27.68	23.34	22.93
45.0	15.32	16.85	16.59	17.80	17.34	17.01	15.49	14.40	12.41	12.11
48.0	8.632	9.436	9.009	9.693	9.091	8.647	7.500	6.836	5.528	5.751
51.0	3.051	3.121	2.499	2.463	2.232	2.099	1.737	1.588	1.470	1.597
54.0	1.018	1.102	0.9571	0.9774	0.8367	0.7689	0.7262	0.6949	0.7070	0.7103
57.0	0.7023	0.6818	0.6782	0.6315	0.6213	0.6030	0.5952	0.5679	0.5605	0.5612
60.0	0.4579	0.4824	0.4687	0.4498	0.4380	0.4148	0.4094	0.3581	0.3374	0.3167
63.0	0.2846	0.2882	0.3151	0.2972	0.3042	0.2841	0.2825	0.2556	0.2648	0.2381
66.0	0.2037	0.1966	0.2105	0.2313	0.2429	0.1987	0.2102	0.1857	0.1927	0.1638
69.0	0.1272	0.1158	0.1402	0.1224	0.1380	0.1202	0.1466	0.1289	0.1422	0.1071
72.0	0.1050	0.0896	0.1138	0.0983	0.1160	0.0983	0.1225	0.1049	0.1247	0.0918
75.0	0.0832	0.0677	0.0941	0.0787	0.1006	0.0787	0.1072	0.0896	0.1094	0.0809
78.0	0.0679	0.0546	0.0788	0.0634	0.0832	0.0634	0.0941	0.0765	0.0962	0.0721
81.0	0.0590	0.0415	0.0635	0.0481	0.0700	0.0459	0.0679	0.0568	0.0875	0.0437
84.0	0.0503	0.0415	0.0525	0.0459	0.0525	0.0437	0.0525	0.0437	0.0613	0.0437
87.0	0.0503	0.0415	0.0525	0.0459	0.0481	0.0437	0.0481	0.0437	0.0438	0.0437
90.0	0.0415	0.0415	0.0503	0.0459	0.0459	0.0459	0.0437	0.0437	0.0437	0.0437

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	1919	1924	1900	1903	1906	1911	1918	1919	1917	1917
3.0	1868	1878	1862	1869	1883	1888	1893	1887	1891	1896
6.0	1772	1787	1783	1792	1816	1818	1818	1804	1812	1822
9.0	1636	1656	1661	1671	1699	1696	1688	1664	1678	1690
12.0	1460	1482	1492	1496	1528	1518	1508	1474	1495	1514
15.0	1258	1278	1282	1278	1307	1291	1280	1250	1270	1292
18.0	1040	1063	1055	1044	1066	1041	1034	1007	1027	1048
21.0	828.6	848.4	831.4	819.4	833.2	807.6	801.1	788.4	800.1	814.1
24.0	642.0	652.9	630.2	617.7	623.4	605.4	609.5	597.3	599.9	610.9
27.0	473.1	488.4	464.8	447.4	455.3	443.6	453.1	443.0	441.3	442.0
30.0	314.8	332.7	319.3	311.3	326.0	315.9	324.9	321.5	323.0	316.9
33.0	182.1	197.3	197.4	199.1	218.6	207.8	210.2	209.2	211.3	207.1
36.0	102.3	109.0	112.8	116.3	126.7	125.4	127.1	122.3	118.8	118.2
39.0	42.21	45.84	46.06	45.76	51.96	50.71	55.28	58.68	53.90	58.58
42.0	22.18	23.78	22.60	21.31	22.99	22.30	24.48	24.74	24.34	24.07
45.0	11.66	12.15	11.75	11.36	11.92	11.53	12.18	12.18	11.65	11.17
48.0	5.628	6.175	5.882	5.532	6.220	5.983	6.481	6.396	6.368	6.210
51.0	1.593	1.605	1.761	1.788	2.013	1.957	1.942	1.762	1.946	2.136
54.0	0.7356	0.7409	0.8238	0.8993	0.8936	0.9065	0.9111	0.9192	0.8915	0.8811
57.0	0.5737	0.5897	0.6396	0.6917	0.7006	0.7026	0.7159	0.7092	0.7050	0.6850
60.0	0.3287	0.3341	0.3602	0.3920	0.3864	0.4051	0.4017	0.4007	0.3929	0.3876
63.0	0.2517	0.2381	0.2664	0.2714	0.2795	0.3282	0.3212	0.3303	0.2708	0.2823
66.0	0.1708	0.1528	0.1746	0.1796	0.1615	0.1887	0.1876	0.2058	0.1723	0.1818
69.0	0.1051	0.0787	0.0918	0.1006	0.0808	0.1072	0.0874	0.1029	0.0765	0.1029
72.0	0.0897	0.0590	0.0743	0.0788	0.0634	0.0962	0.0721	0.0897	0.0612	0.0853
75.0	0.0831	0.0525	0.0633	0.0678	0.0546	0.0853	0.0634	0.0765	0.0481	0.0722
78.0	0.0723	0.0503	0.0415	0.0547	0.0437	0.0744	0.0481	0.0656	0.0393	0.0591
81.0	0.0504	0.0503	0.0437	0.0438	0.0372	0.0547	0.0350	0.0547	0.0306	0.0503
84.0	0.0481	0.0635	0.0437	0.0372	0.0372	0.0394	0.0306	0.0459	0.0284	0.0438
87.0	0.0677	0.0743	0.0437	0.0372	0.0372	0.0394	0.0262	0.0350	0.0262	0.0350
90.0	0.0743	0.0743	0.0437	0.0372	0.0372	0.0306	0.0262	0.0284	0.0262	0.0284

G/C	300.0	315.0	330.0	345.0
0.0	1916	1918	1919	1924
3.0	1907	1914	1920	1921
6.0	1844	1858	1870	1870
9.0	1729	1748	1768	1768
12.0	1562	1582	1611	1611
15.0	1348	1373	1407	1405
18.0	1108	1131	1168	1164
21.0	860.1	882.3	916.5	913.5

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-08-11

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	644.2	662.5	689.3	688.0
27.0	473.5	481.3	502.5	503.2
30.0	339.3	345.0	361.8	359.0
33.0	225.7	236.1	250.6	243.2
36.0	129.3	133.8	144.1	141.3
39.0	60.69	67.20	66.43	69.73
42.0	26.85	27.21	28.87	28.64
45.0	12.28	12.76	13.41	13.44
48.0	6.954	7.249	7.675	7.700
51.0	2.621	2.837	3.066	3.001
54.0	0.9474	0.9361	0.9577	0.9011
57.0	0.7007	0.7176	0.6529	0.6563
60.0	0.3773	0.3943	0.3795	0.4095
63.0	0.2402	0.2517	0.2336	0.2670
66.0	0.1659	0.1773	0.1615	0.1883
69.0	0.0808	0.1030	0.0808	0.1117
72.0	0.0655	0.0853	0.0655	0.0919
75.0	0.0502	0.0678	0.0459	0.0744
78.0	0.0371	0.0569	0.0328	0.0591
81.0	0.0284	0.0481	0.0328	0.0481
84.0	0.0284	0.0394	0.0328	0.0394
87.0	0.0262	0.0350	0.0262	0.0329
90.0	0.0262	0.0284	0.0262	0.0284

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-11

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: