

LED Downlight SENSE Series S68R1-7.5W-930-N



Light Output Ratio:	100.0%	
Luminaire Power:	9.119 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: 25.2DEG
Operators: Cao Chengpei
Test Date: 2016-11-29

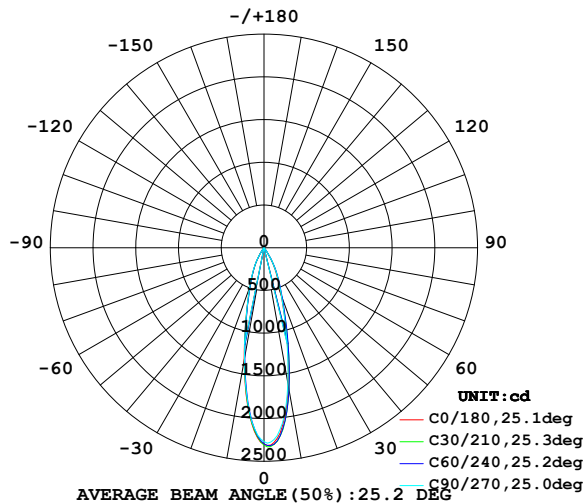
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

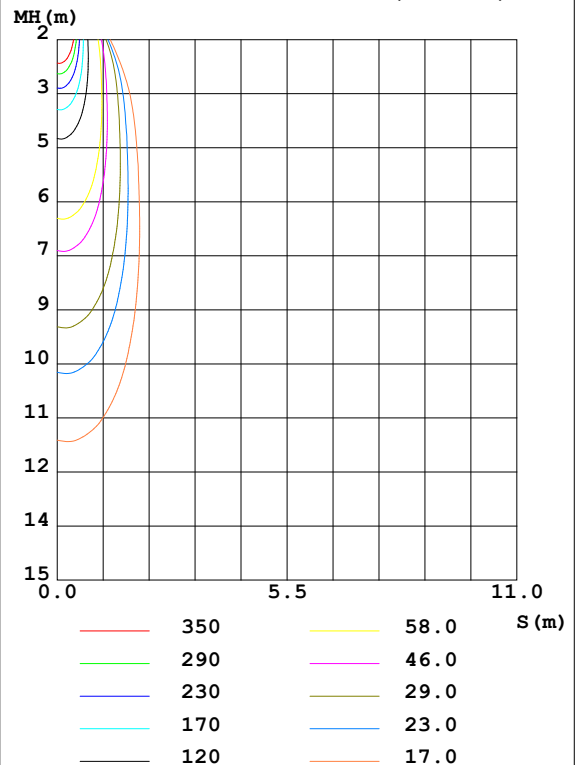
Test:U:220.6V I:0.0475A P:9.119W PF:0.8692 Lamp Flux:632.697x1 lm		
NAME: S68R1-7.5W-930-N	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 78mm*H98mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.38 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	2330	S/MH (C0/180)	0.39
NOMINAL POWER (W)	9.0	LOR (%)	100.0	S/MH (C90/270)	0.39
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	632.70	η UP, DN (C0-180)	0.0, 52.8
NOMINAL FLUX (lm)	632.697	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 47.2
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)



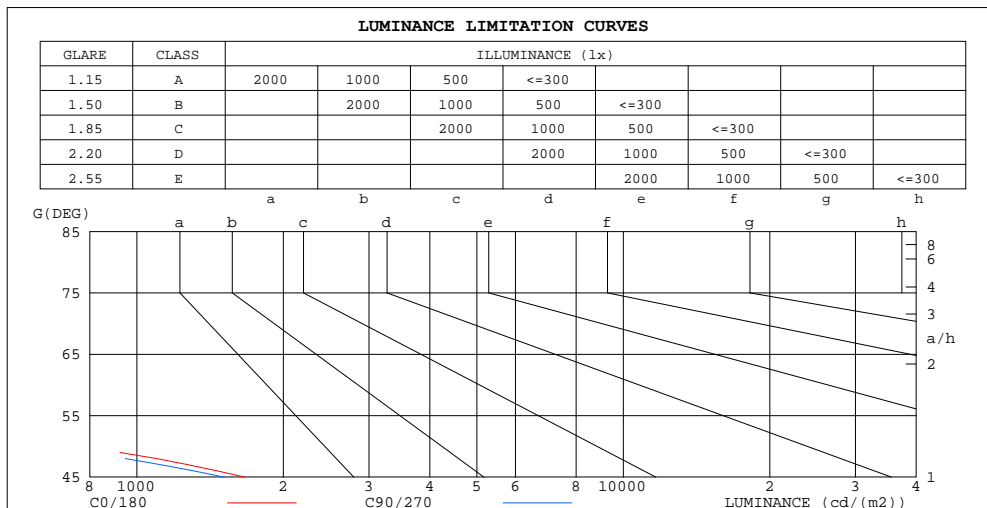
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Remarks:

**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	1633	1692	1608	1400	1338	1311	1321	1486	0- 10	176.7	176.7	27.9,27.9
20	586.6	626.3	599.6	505.4	482.7	475.5	491.8	550.1	10- 20	250.8	427.5	67.6,67.6
30	192.3	219.8	212.9	176.6	160.6	151.4	158.6	179.2	20- 30	154.4	582.0	92.92
40	19.13	20.37	19.11	17.03	18.25	17.62	19.06	20.88	30- 40	44.75	626.7	99.1,99.1
50	2.325	2.163	1.964	1.462	1.632	1.519	1.978	2.375	40- 50	5.249	632.0	99.9,99.9
60	0.1475	0.1955	0.2285	0.1701	0.1446	0.1942	0.1936	0.1389	50- 60	0.6071	632.6	100,100
70	0.0511	0.0277	0.0341	0.0213	0.0276	0.0447	0.0277	0.0405	60- 70	0.0836	632.6	100,100
80	0.0235	0.0192	0.0255	0.0213	0.0170	0.0277	0.0107	0.0277	70- 80	0.0283	632.7	100,100
90	0.0362	0.0234	0.0192	0.0213	0.0170	0.0128	0.0107	0.0107	80- 90	0.0221	632.7	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	82	46
80	28	31
75	40	26
70	31	21
65	39	69
60	62	96
55	146	167
50	757	640
45	1667	1512

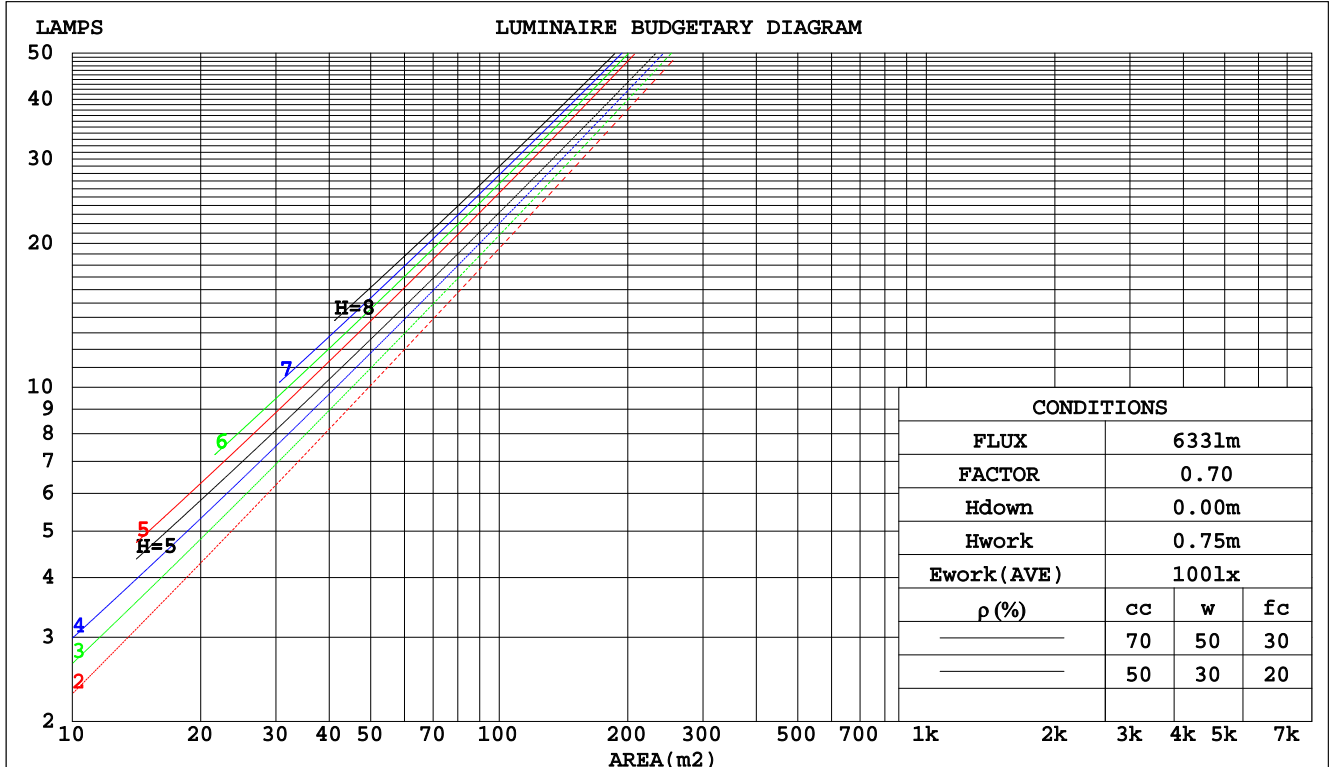
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: S68R1-7.5W-930-N	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	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	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.98	.96
2.0	1.07	1.03	1.01	1.05	1.02	.00	1.02	.00	.97	.99	.97	.95	.96	.95	.93	.92
3.0	1.02	.98	.95	1.00	.97	.94	.98	.95	.92	.95	.93	.91	.93	.91	.90	.88
4.0	.97	.93	.89	.96	.92	.89	.94	.91	.88	.92	.89	.87	.90	.88	.86	.85
5.0	.93	.88	.85	.92	.88	.85	.90	.87	.84	.89	.86	.83	.87	.85	.83	.81
6.0	.89	.84	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.85	.82	.79	.78
7.0	.86	.81	.78	.85	.81	.78	.84	.80	.77	.83	.79	.77	.82	.79	.76	.75
8.0	.82	.78	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.73
9.0	.80	.75	.72	.79	.75	.72	.78	.74	.72	.78	.74	.71	.77	.74	.71	.70
10.0	.77	.72	.69	.76	.72	.69	.76	.72	.69	.75	.72	.69	.74	.71	.69	.68



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WEC AND CCEC

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SPEC.:3000K	DIM.: φ78mm*H98mm	
MFR.: NEKO LIGHTING AG		

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	.146	.083	.026	.139	.079	.025	.126	.073	.023	.115	.066	.021	.105	.061	.020	
2.0	.136	.075	.023	.131	.072	.022	.120	.067	.021	.111	.062	.019	.102	.058	.018	
3.0	.128	.068	.020	.123	.066	.020	.115	.062	.019	.107	.058	.018	.099	.055	.017	
4.0	.121	.063	.018	.117	.061	.018	.109	.058	.017	.103	.055	.017	.096	.052	.016	
5.0	.114	.058	.017	.111	.057	.017	.105	.055	.016	.099	.052	.016	.093	.050	.015	
6.0	.109	.054	.016	.106	.053	.015	.100	.051	.015	.095	.049	.015	.090	.048	.014	
7.0	.104	.051	.015	.101	.050	.014	.096	.049	.014	.092	.047	.014	.088	.046	.013	
8.0	.099	.048	.014	.097	.048	.013	.093	.046	.013	.089	.045	.013	.085	.044	.013	
9.0	.095	.046	.013	.093	.045	.013	.089	.044	.013	.086	.043	.012	.082	.042	.012	
10.0	.091	.044	.012	.089	.043	.012	.086	.042	.012	.083	.041	.012	.080	.040	.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	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.151	.133	.117	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.094	.118	.098	.082	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.125	.098	.077	.107	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.115	.086	.064	.099	.074	.056	.068	.052	.040	.039	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.063	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.099	.068	.046	.086	.059	.040	.059	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.093	.062	.040	.080	.053	.035	.056	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.088	.056	.035	.076	.049	.030	.052	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.083	.051	.030	.072	.045	.026	.050	.031	.019	.029	.019	.011	.009	.006	.004	

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 Humidity:52%
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 Remarks:

UGR(Unified Glare Rating) Table

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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	9.9	10.7	10.1	10.8	11.0	11.0	11.7	11.2	11.8	12.0
3H	9.8	10.4	10.0	10.6	10.8	10.8	11.5	11.0	11.7	11.8
4H	9.7	10.3	10.0	10.5	10.8	10.7	11.4	11.0	11.6	11.8
6H	9.6	10.2	9.9	10.4	10.7	10.6	11.2	10.9	11.5	11.7
8H	9.6	10.1	9.9	10.4	10.6	10.6	11.2	10.9	11.4	11.7
12H	9.5	10.1	9.8	10.3	10.6	10.5	11.1	10.9	11.4	11.6
4H 2H	9.7	10.3	10.0	10.5	10.8	10.7	11.4	11.0	11.6	11.8
3H	9.5	10.1	9.8	10.3	10.6	10.5	11.1	10.9	11.4	11.6
4H	9.4	9.9	9.8	10.2	10.5	10.5	11.0	10.8	11.2	11.5
6H	9.3	9.8	9.7	10.1	10.4	10.4	10.8	10.7	11.1	11.5
8H	9.3	9.7	9.7	10.0	10.4	10.3	10.7	10.7	11.1	11.4
12H	9.2	9.6	9.6	10.0	10.4	10.2	10.6	10.6	11.0	11.4
8H 4H	9.3	9.7	9.7	10.0	10.4	10.3	10.7	10.7	11.1	11.4
6H	9.2	9.5	9.6	9.9	10.3	10.2	10.5	10.6	10.9	11.3
8H	9.1	9.4	9.5	9.8	10.3	10.1	10.4	10.6	10.8	11.3
12H	9.0	9.3	9.5	9.7	10.2	10.1	10.3	10.5	10.8	11.2
12H 4H	9.2	9.6	9.6	10.0	10.4	10.2	10.6	10.6	11.0	11.4
6H	9.1	9.4	9.5	9.8	10.3	10.1	10.4	10.6	10.8	11.3
8H	9.0	9.3	9.5	9.7	10.2	10.1	10.3	10.5	10.8	11.2
Variations with the observer position at spacings:										
S = 1.0H	+ 4.1 / -20.7					+ 4.0 / -20.3				
1.5H	+ 6.7 / -18.3					+ 6.6 / -17.6				
2.0H	+ 6.9 / -14.8					+ 6.7 / -12.4				

CIE Pub.117 Corrected 632.7 lm Total Lamp Luminous Flux. (8log(F/F0) = -1.6)

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 γ Interval: 1.0DEG
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UTILIZATION FACTORS TABLE

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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	82	91	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	94	101	96	93	99	96	93	89
1.25	105	101	98	104	100	97	102	99	96	93
1.50	108	103	101	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	106	104	98
4.00	115	112	110	113	110	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):

630.61 lm

%lum = 99.7%

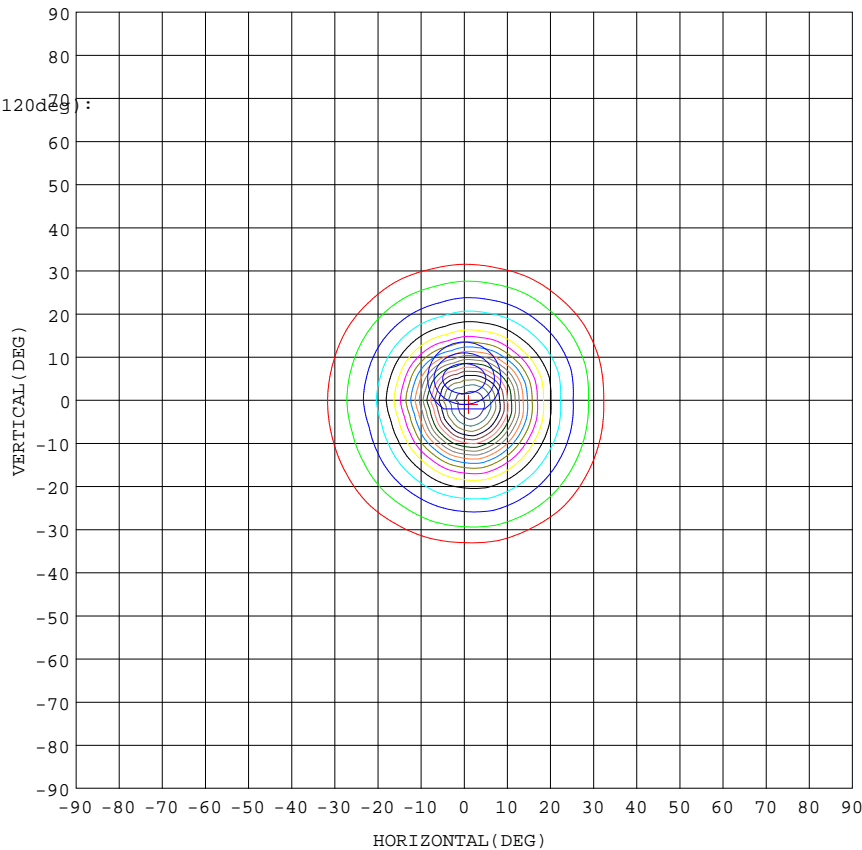
%lamp = 99.7%

Conical surface Flux(120deg):

632.56 lm

%lum = 100.0%

%lamp = 100.0%



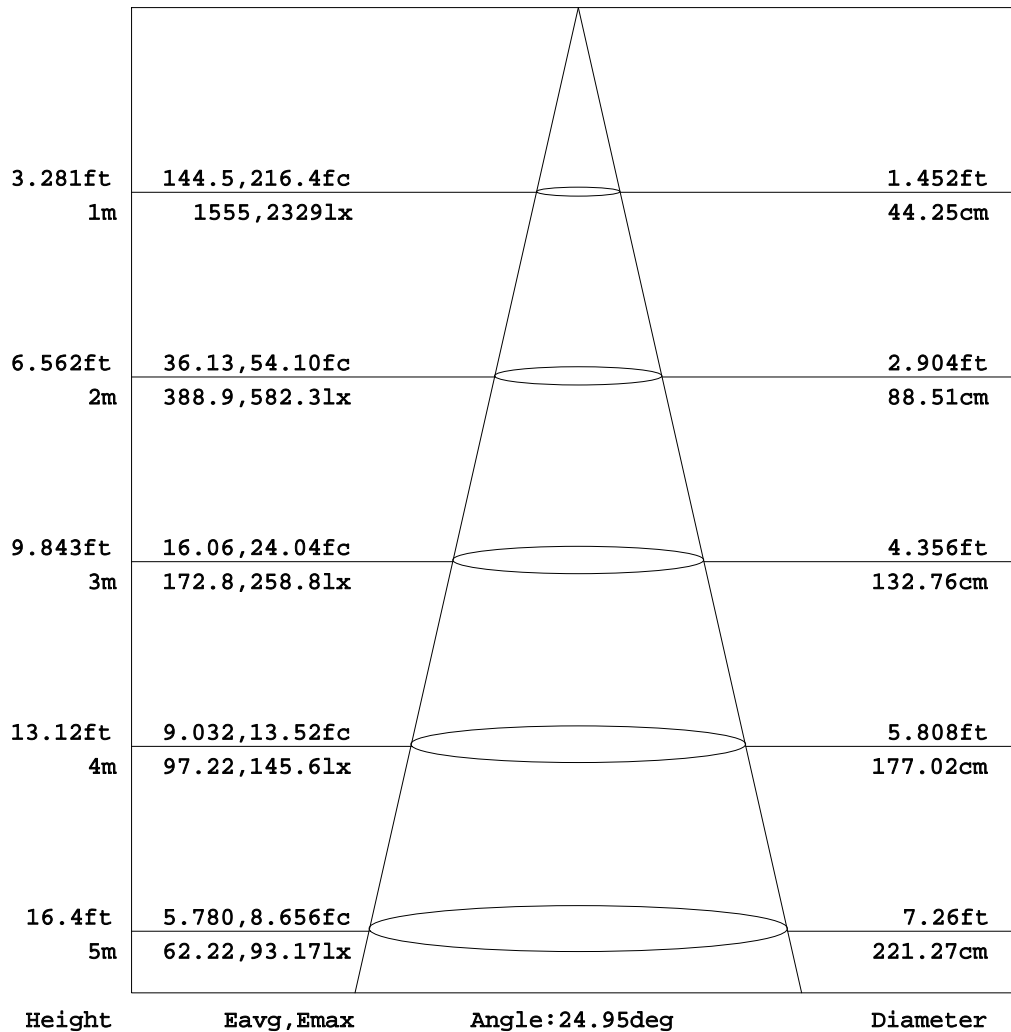
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AAI Figure

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Flux out:260.5 lm



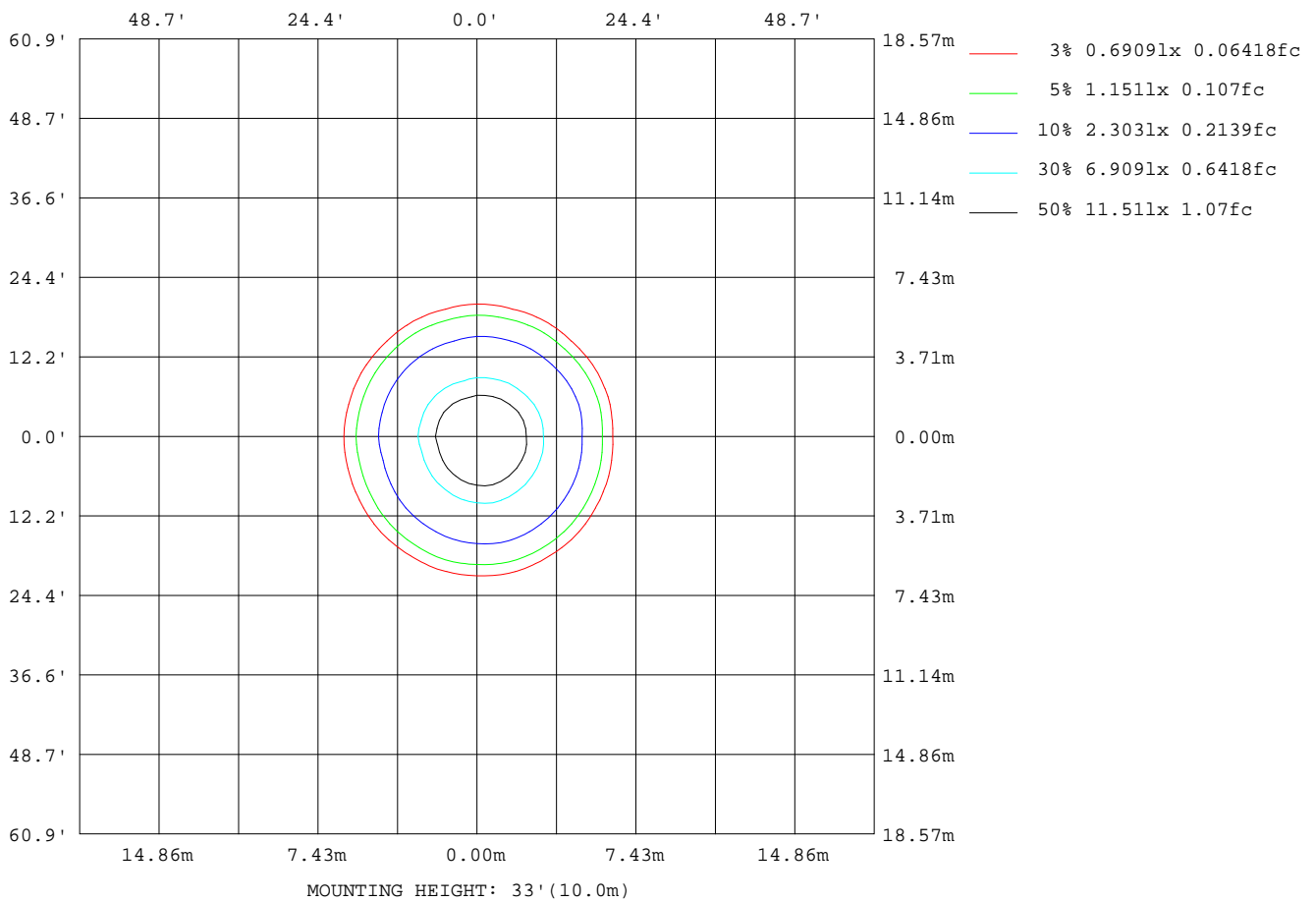
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

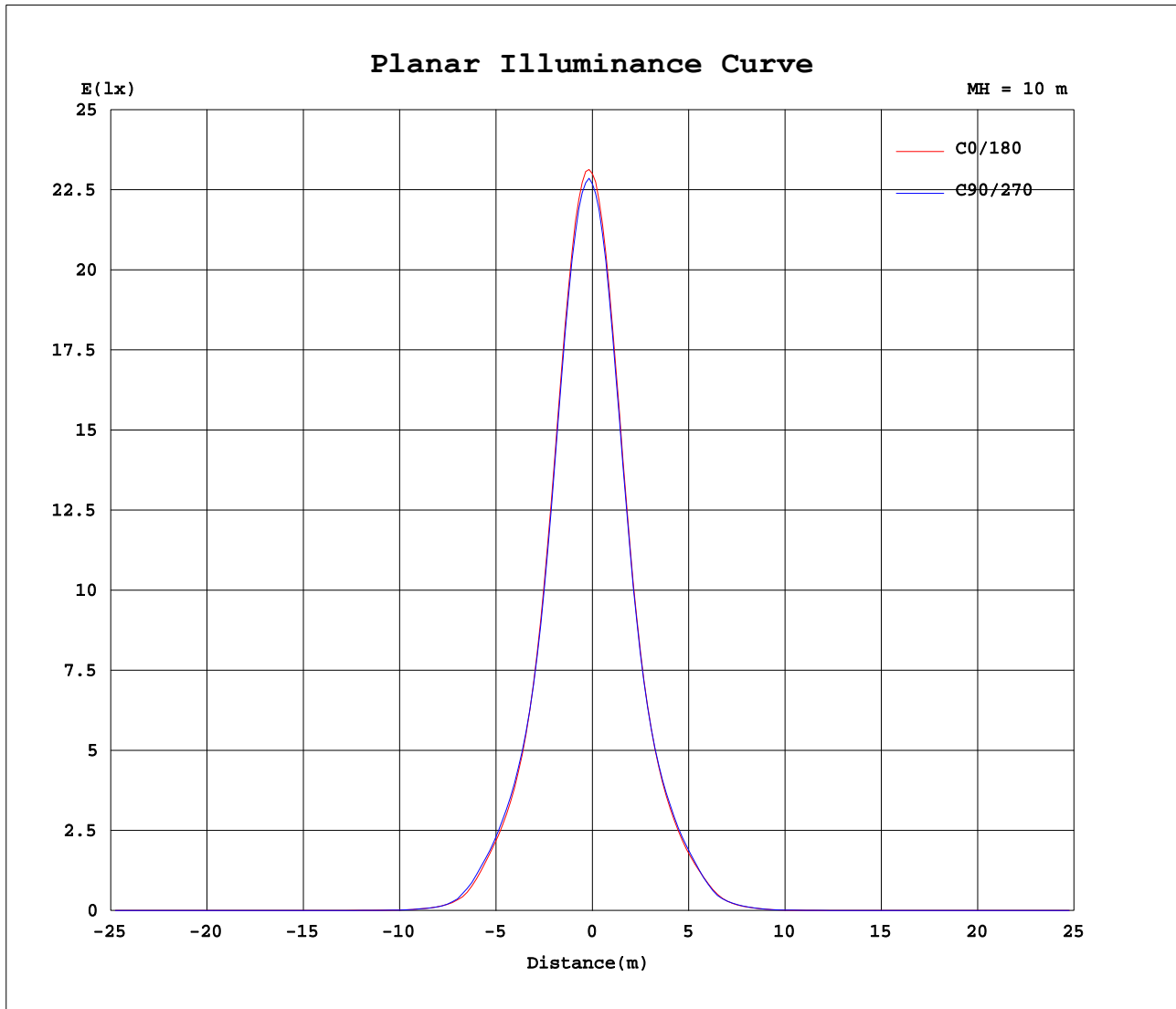
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Planar Illuminance Curve



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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	2300	2301	2310	2308	2296	2271	2269	2268	2271	2274
3.0	2282	2301	2305	2309	2302	2279	2250	2229	2189	2164
6.0	2091	2130	2135	2141	2126	2115	2065	2017	1945	1898
9.0	1764	1816	1814	1823	1813	1809	1738	1682	1588	1529
12.0	1370	1427	1421	1433	1429	1421	1346	1291	1200	1147
15.0	1008	1046	1049	1059	1058	1054	989.5	942.9	875.1	836.5
18.0	726.4	754.3	756.6	770.6	774.1	772.8	727.8	694.8	644.9	612.8
21.0	532.8	550.0	558.3	567.7	573.9	576.6	548.9	523.7	485.9	459.5
24.0	394.8	412.3	417.0	427.8	434.7	440.6	415.8	396.4	370.2	349.9
27.0	291.2	301.4	309.6	316.7	323.1	325.7	306.3	290.2	268.5	256.2
30.0	192.3	202.1	210.0	219.8	224.6	226.7	212.9	204.4	186.2	176.6
33.0	97.17	105.7	112.4	122.8	120.3	127.1	117.1	113.0	102.6	97.44
36.0	47.07	49.32	55.15	55.53	58.85	55.27	52.46	45.87	41.11	39.97
39.0	24.10	24.15	25.15	26.25	26.40	26.17	23.60	22.73	21.00	20.63
42.0	12.32	12.54	12.54	12.86	12.88	13.15	12.35	12.38	11.59	11.42
45.0	5.631	5.684	5.452	5.200	5.179	5.249	5.107	5.172	4.859	4.559
48.0	3.507	3.520	3.364	3.178	3.185	3.201	3.025	2.924	2.642	2.422
51.0	1.853	1.847	1.797	1.754	1.777	1.799	1.575	1.424	1.232	1.111
54.0	0.4585	0.5419	0.4706	0.5613	0.5455	0.5996	0.5184	0.5109	0.4923	0.4556
57.0	0.3328	0.3084	0.3305	0.3724	0.4029	0.3958	0.4009	0.4042	0.3840	0.3361
60.0	0.1475	0.1338	0.1518	0.1955	0.2243	0.2232	0.2285	0.2233	0.2093	0.1701
63.0	0.0895	0.0617	0.0768	0.0913	0.1238	0.1468	0.1726	0.1618	0.1514	0.0957
66.0	0.0746	0.0426	0.0618	0.0575	0.0704	0.0616	0.0858	0.0827	0.0707	0.0425
69.0	0.0533	0.0255	0.0341	0.0277	0.0427	0.0277	0.0362	0.0192	0.0320	0.0213
72.0	0.0511	0.0213	0.0320	0.0277	0.0384	0.0234	0.0320	0.0192	0.0256	0.0213
75.0	0.0490	0.0213	0.0299	0.0234	0.0341	0.0170	0.0319	0.0192	0.0256	0.0213
78.0	0.0320	0.0213	0.0277	0.0192	0.0320	0.0170	0.0234	0.0192	0.0234	0.0213
81.0	0.0234	0.0256	0.0234	0.0192	0.0319	0.0170	0.0213	0.0192	0.0213	0.0213
84.0	0.0277	0.0299	0.0213	0.0213	0.0192	0.0192	0.0192	0.0192	0.0213	0.0213
87.0	0.0320	0.0362	0.0319	0.0213	0.0192	0.0192	0.0192	0.0192	0.0213	0.0213
90.0	0.0362	0.0362	0.0320	0.0234	0.0192	0.0192	0.0192	0.0192	0.0213	0.0213
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2272	2275	2301	2310	2310	2308	2296	2271	2269	2268
3.0	2127	2111	2151	2131	2144	2140	2124	2091	2121	2140
6.0	1832	1803	1850	1821	1837	1827	1810	1777	1826	1854
9.0	1454	1414	1466	1433	1452	1442	1422	1389	1445	1478
12.0	1076	1046	1093	1068	1078	1071	1057	1031	1081	1111
15.0	783.4	762.5	798.5	779.3	787.9	782.9	773.7	753.8	793.6	814.4
18.0	574.2	560.8	587.9	575.2	577.2	575.5	574.3	564.5	591.0	606.1
21.0	433.1	417.6	439.4	430.9	434.4	431.6	432.0	429.7	451.0	460.5
24.0	328.1	313.2	328.4	323.1	324.5	324.5	325.9	324.3	340.5	348.8
27.0	238.0	231.1	238.7	235.7	236.3	238.7	239.9	237.6	250.1	255.8
30.0	164.0	157.7	160.6	154.8	154.1	151.4	154.5	151.4	158.6	160.4
33.0	88.89	84.42	85.97	81.74	79.92	77.55	79.30	76.22	80.47	81.59
36.0	36.72	36.20	42.32	42.77	41.73	41.30	42.70	41.79	44.11	45.00
39.0	19.48	19.31	22.74	23.00	22.44	22.08	23.11	23.08	24.10	24.41
42.0	10.65	10.33	11.08	10.62	10.63	10.12	10.35	9.925	10.49	10.84
45.0	4.144	4.063	4.465	4.521	4.555	4.423	4.394	4.382	4.835	5.138
48.0	2.179	2.124	2.481	2.527	2.520	2.461	2.580	2.675	2.983	3.166
51.0	1.013	1.001	1.317	1.294	1.157	1.173	1.310	1.365	1.531	1.621
54.0	0.4568	0.4769	0.5449	0.5376	0.5151	0.5608	0.6046	0.5929	0.5619	0.5569
57.0	0.3287	0.3381	0.3675	0.3629	0.3443	0.3799	0.4250	0.4310	0.4016	0.3842
60.0	0.1518	0.1340	0.1446	0.1708	0.1595	0.1942	0.2000	0.2240	0.1936	0.1772
63.0	0.0960	0.0830	0.0956	0.1216	0.1021	0.1280	0.1485	0.1939	0.1597	0.1449
66.0	0.0640	0.0510	0.0510	0.0832	0.0616	0.0832	0.0595	0.0834	0.0765	0.0747
69.0	0.0298	0.0277	0.0277	0.0447	0.0298	0.0448	0.0298	0.0405	0.0277	0.0426
72.0	0.0277	0.0277	0.0192	0.0405	0.0277	0.0426	0.0256	0.0341	0.0277	0.0405
75.0	0.0277	0.0277	0.0170	0.0341	0.0170	0.0384	0.0191	0.0320	0.0213	0.0341
78.0	0.0235	0.0277	0.0170	0.0320	0.0107	0.0320	0.0107	0.0277	0.0128	0.0320
81.0	0.0213	0.0277	0.0170	0.0277	0.0107	0.0277	0.0107	0.0234	0.0107	0.0256
84.0	0.0213	0.0277	0.0170	0.0256	0.0107	0.0234	0.0107	0.0192	0.0107	0.0171
87.0	0.0213	0.0277	0.0170	0.0213	0.0107	0.0192	0.0107	0.0170	0.0107	0.0107
90.0	0.0277	0.0277	0.0170	0.0170	0.0107	0.0128	0.0107	0.0107	0.0107	0.0085
G/C	300.0	315.0	330.0	345.0						
0.0	2271	2274	2272	2275						
3.0	2176	2209	2244	2263						
6.0	1919	1969	2038	2081						
9.0	1554	1613	1699	1754						
12.0	1180	1233	1319	1370						
15.0	869.7	904.0	968.2	1012						
18.0	643.6	664.6	707.7	739.0						
21.0	483.4	499.9	528.1	549.5						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.2DEG
 Operators: Cao Chengpei
 Test Date: 2016-11-29

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	366.8	378.6	399.8	410.4
27.0	271.4	278.2	296.2	305.3
30.0	173.4	179.2	193.7	200.9
33.0	87.36	91.05	98.87	103.9
36.0	47.73	49.21	53.27	55.61
39.0	26.13	26.55	28.67	28.66
42.0	12.02	12.36	13.36	13.42
45.0	5.584	5.830	6.130	6.099
48.0	3.442	3.597	3.829	3.852
51.0	1.781	1.875	2.043	2.116
54.0	0.5576	0.5210	0.5191	0.5192
57.0	0.3952	0.3563	0.3760	0.3796
60.0	0.1698	0.1389	0.1315	0.1496
63.0	0.0723	0.0810	0.0618	0.0853
66.0	0.0426	0.0618	0.0468	0.0661
69.0	0.0320	0.0426	0.0170	0.0341
72.0	0.0320	0.0405	0.0170	0.0256
75.0	0.0277	0.0405	0.0170	0.0234
78.0	0.0255	0.0362	0.0170	0.0192
81.0	0.0128	0.0235	0.0171	0.0171
84.0	0.0085	0.0170	0.0256	0.0128
87.0	0.0085	0.0149	0.0362	0.0318
90.0	0.0085	0.0107	0.0362	0.0341

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.2DEG
Operators: Cao Chengpei
Test Date: 2016-11-29

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: