

LED Downlight SENSE Series S125R1-18W-930-M



Light Output Ratio:	100.0%	
Luminaire Power:	19.51 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: 2017-07-14

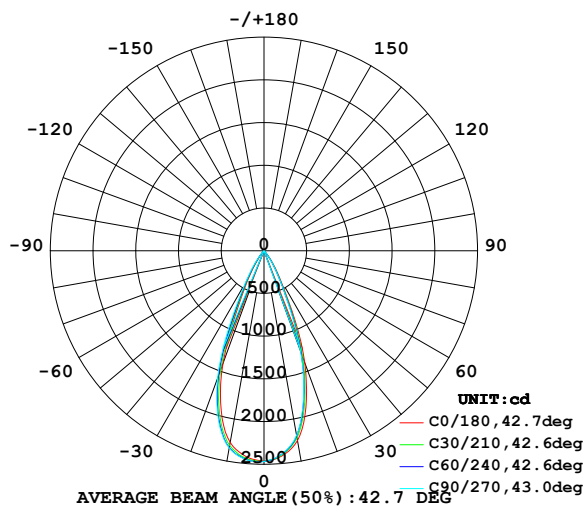
γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity: 52%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

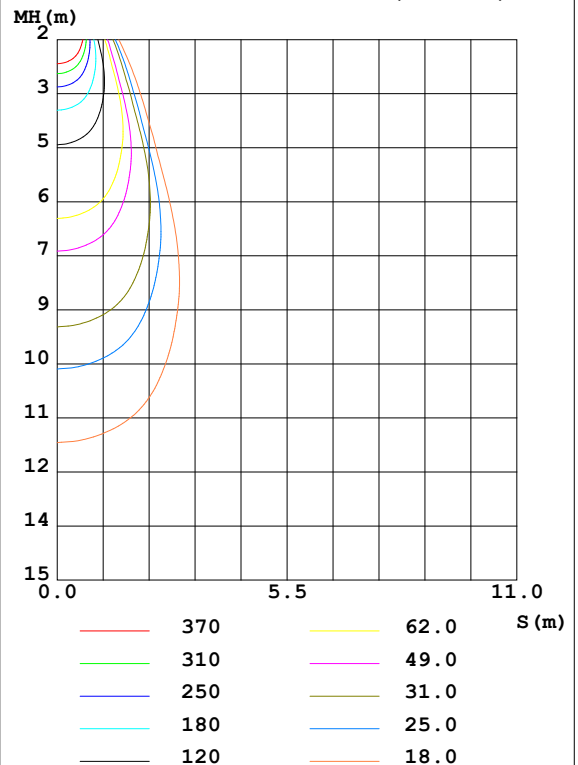
Test:U:220.7V I:0.0938A P:19.51W PF:0.9425 Lamp Flux:1240.26x1 lm		
NAME: S125R1-18W-930-M	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 135mm*H157mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.58 lm/W			
MODEL	CITIZEN-3000K	I <sub>max</sub> (cd)	2474	S/MH (C0/180)	0.64
NOMINAL POWER (W)	21	LOR (%)	100.0	S/MH (C90/270)	0.68
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1240.3	$\eta$ UP, DN (C0-180)	0.0, 47.0
NOMINAL FLUX (lm)	1240.26	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 53.0
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	0.65

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



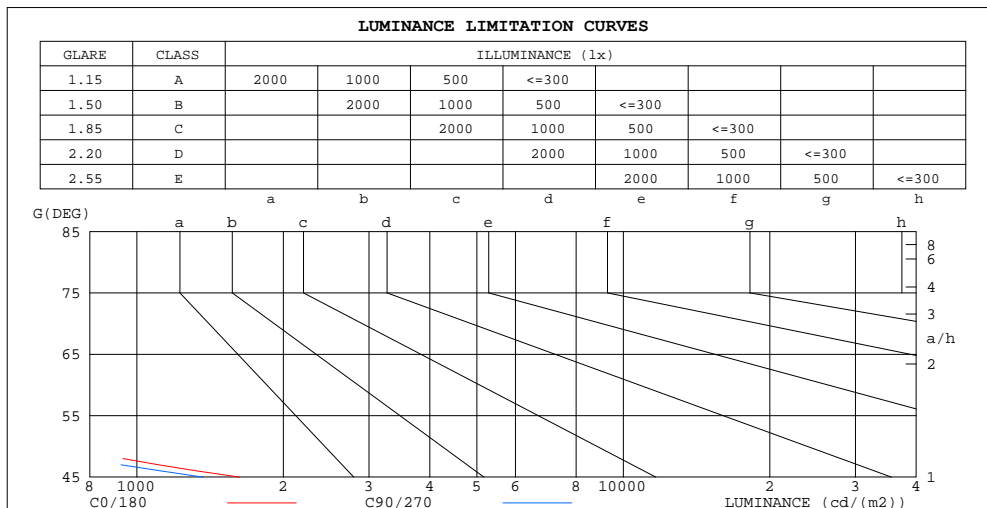
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$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
 Humidity: 52%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

**ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES**

**ZONAL FLUX DIAGRAM:**

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	2255	2215	2196	2226	2279	2324	2344	2318	0- 10	226.4	226.4	18.3,18.3
20	1399	1306	1258	1299	1402	1506	1588	1529	10- 20	524.0	750.4	60.5,60.5
30	363.8	331.1	318.3	320.8	339.4	382.4	439.7	422.6	20- 30	360.9	1111	89.6,89.6
40	61.93	54.31	47.79	43.71	43.81	55.78	71.31	73.57	30- 40	109.6	1221	98.4,98.4
50	6.292	5.677	5.361	5.533	5.906	6.276	6.645	7.754	40- 50	15.95	1237	99.7,99.7
60	1.136	1.056	0.9426	1.102	1.051	1.076	1.145	1.557	50- 60	2.792	1240	99.9,99.9
70	0.1992	0.1877	0.1753	0.3122	0.2447	0.1772	0.1398	0.2495	60- 70	0.4559	1240	100,100
80	0.0612	0.0700	0.0765	0.0722	0.0634	0.0787	0.0634	0.0634	70- 80	0.0980	1240	100,100
90	0.0590	0.0700	0.0765	0.0722	0.0590	0.0568	0.0612	0.0503	80- 90	0.0715	1240	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		



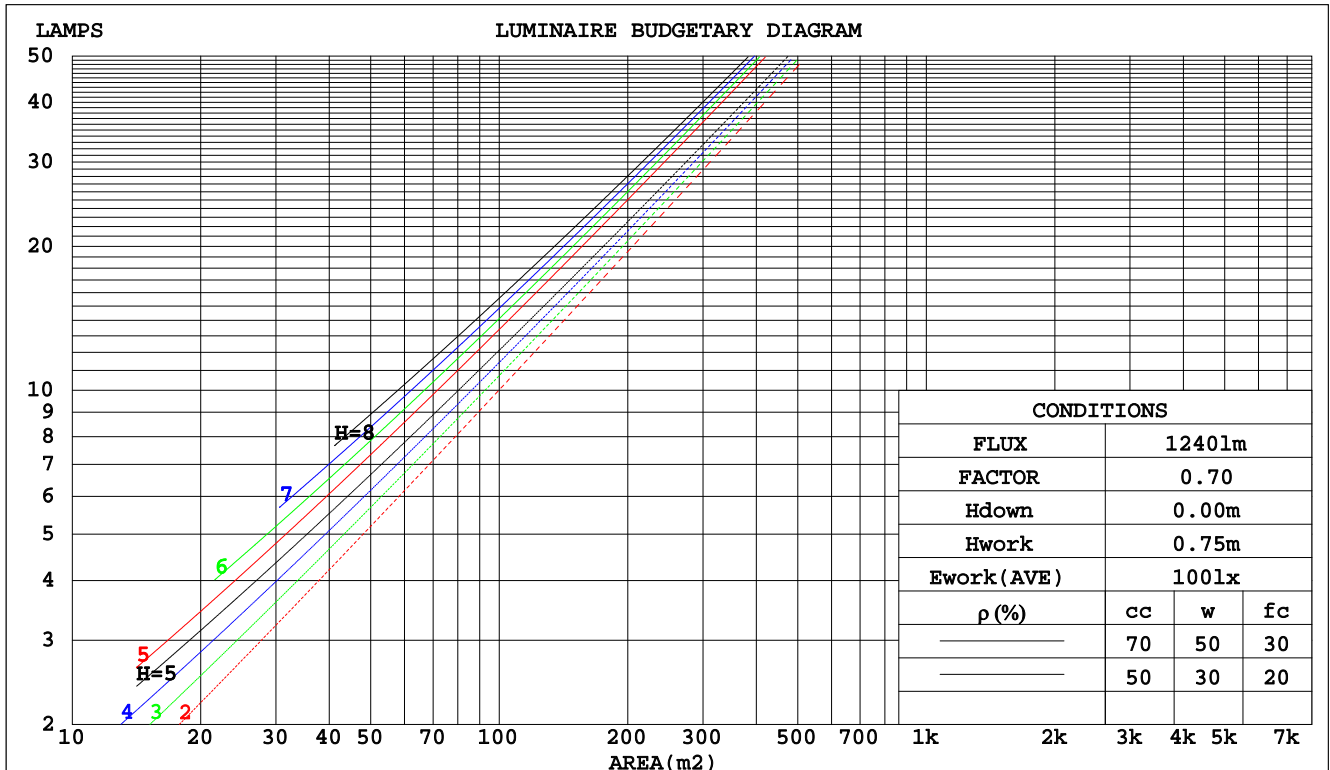
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0938A P:19.51W PF:0.9425 Lamp Flux:1240.26x1 lm		
NAME: S125R1-18W-930-M	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 135mm*H157mm	
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						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	1.06	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.90	.94	.91	.89	.92	.89	.88	.86
4.0	.95	.90	.87	.94	.90	.86	.92	.88	.85	.90	.87	.84	.88	.86	.83	.82
5.0	.90	.85	.82	.89	.85	.82	.88	.84	.81	.86	.83	.80	.85	.82	.79	.78
6.0	.86	.81	.78	.85	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.76	.75
7.0	.82	.77	.74	.82	.77	.74	.80	.76	.73	.79	.76	.73	.78	.75	.72	.71
8.0	.79	.74	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.69	.68
9.0	.75	.70	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.73	.69	.66	.65
10.0	.72	.68	.64	.72	.67	.64	.71	.67	.64	.71	.67	.64	.70	.66	.64	.63



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WEC AND CCEC

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$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.155	.088	.028	.148	.084	.027	.135	.078	.025	.124	.072	.023	.113	.066	.021	
2.0	.146	.080	.024	.140	.077	.024	.130	.072	.022	.120	.067	.021	.111	.063	.020	
3.0	.137	.073	.022	.133	.071	.021	.124	.067	.020	.116	.064	.019	.108	.060	.019	
4.0	.130	.068	.020	.126	.066	.020	.119	.063	.019	.112	.060	.018	.105	.057	.017	
5.0	.124	.063	.018	.120	.062	.018	.114	.059	.017	.108	.057	.017	.102	.055	.016	
6.0	.118	.059	.017	.115	.058	.017	.110	.056	.016	.104	.054	.016	.099	.052	.016	
7.0	.113	.056	.016	.110	.055	.016	.105	.053	.015	.101	.052	.015	.096	.050	.015	
8.0	.108	.053	.015	.106	.052	.015	.101	.051	.014	.097	.049	.014	.094	.048	.014	
9.0	.104	.050	.014	.102	.050	.014	.098	.048	.014	.094	.047	.014	.091	.046	.013	
10.0	.100	.048	.013	.098	.047	.013	.095	.046	.013	.091	.045	.013	.088	.044	.013	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	.109	.085	.066	.075	.059	.047	.044	.035	.028	.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	.047	.033	.038	.027	.019	.012	.009	.006	
7.0	.103	.069	.045	.089	.060	.039	.061	.042	.028	.036	.025	.017	.011	.008	.005	
8.0	.097	.062	.039	.083	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	
9.0	.092	.057	.033	.079	.049	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004	
10.0	.087	.052	.029	.075	.046	.026	.052	.032	.018	.030	.019	.011	.010	.006	.004	

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 $\gamma$  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

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SPEC.:3000K	DIM.: $\phi$ 135mm*H157mm	
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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	9.5	10.3	9.7	10.5	10.6	8.7	9.5	8.9	9.6	9.8
3H	9.4	10.1	9.6	10.3	10.5	8.5	9.3	8.8	9.5	9.7
4H	9.3	10.0	9.6	10.2	10.4	8.5	9.1	8.7	9.4	9.6
6H	9.2	9.8	9.5	10.1	10.3	8.4	9.0	8.7	9.3	9.5
8H	9.2	9.8	9.5	10.0	10.3	8.3	9.0	8.6	9.2	9.5
12H	9.1	9.7	9.4	10.0	10.2	8.3	8.9	8.6	9.1	9.4
4H 2H	9.3	10.0	9.6	10.2	10.4	8.5	9.1	8.7	9.4	9.6
3H	9.1	9.7	9.4	10.0	10.2	8.3	8.9	8.6	9.1	9.4
4H	9.0	9.6	9.4	9.9	10.2	8.2	8.7	8.5	9.0	9.3
6H	8.9	9.4	9.3	9.7	10.1	8.1	8.6	8.5	8.9	9.2
8H	8.9	9.3	9.3	9.7	10.0	8.0	8.5	8.4	8.8	9.2
12H	8.8	9.2	9.2	9.6	10.0	8.0	8.4	8.4	8.8	9.2
8H 4H	8.9	9.3	9.3	9.7	10.0	8.0	8.5	8.4	8.8	9.2
6H	8.8	9.1	9.2	9.5	9.9	7.9	8.3	8.4	8.7	9.1
8H	8.7	9.0	9.1	9.4	9.9	7.9	8.2	8.3	8.6	9.1
12H	8.6	8.9	9.1	9.4	9.8	7.8	8.1	8.3	8.5	9.0
12H 4H	8.8	9.2	9.2	9.6	10.0	8.0	8.4	8.4	8.8	9.1
6H	8.7	9.0	9.1	9.4	9.9	7.9	8.2	8.3	8.6	9.1
8H	8.6	8.9	9.1	9.4	9.8	7.8	8.1	8.3	8.5	9.0
Variations with the observer position at spacings:										
S = 1.0H	+ 4.4 / -16.5					+ 4.1 / -16.0				
1.5H	+ 7.0 / -13.3					+ 6.6 / -12.3				
2.0H	+ 7.0 / -12.3					+ 6.5 / -10.7				

CIE Pub.117 Corrected 1240 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

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Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
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Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0938A P:19.51W PF:0.9425 Lamp Flux:1240.26x1 lm		
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SPEC.:3000K	DIM.: $\phi 135\text{mm} \times H157\text{mm}$	
MFR.: NEKO LIGHTING AG		

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	91	88	85
1.00	101	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	94
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	109	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):

1232.7 lm

%lum = 99.4%

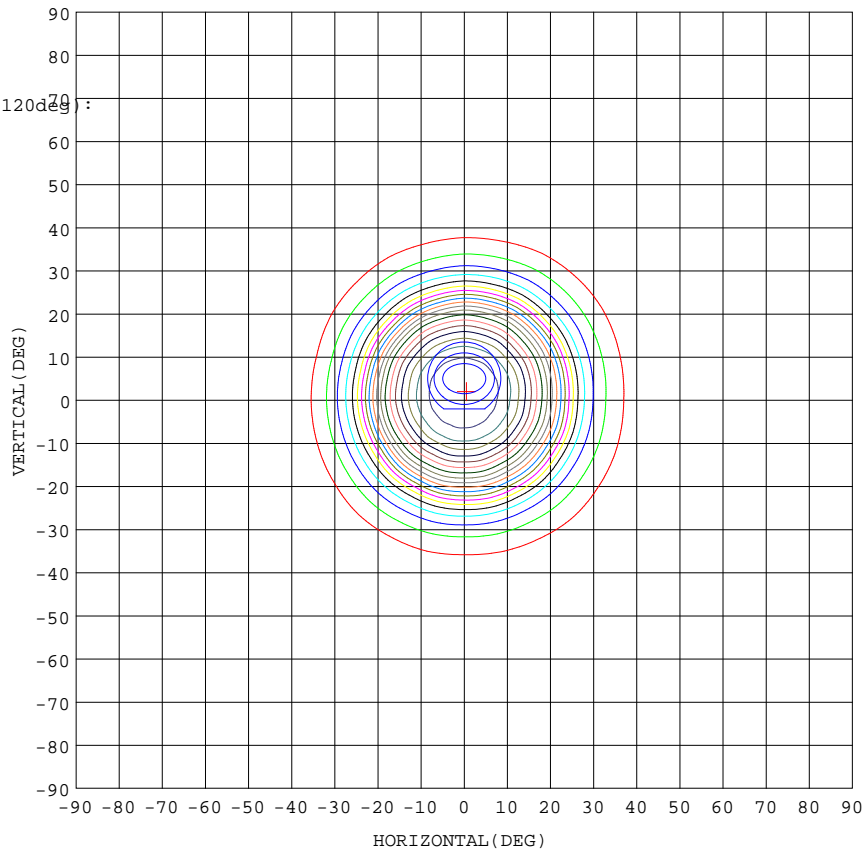
%lamp = 99.4%

Conical surface Flux(120deg):

1239.6 lm

%lum = 99.9%

%lamp = 99.9%



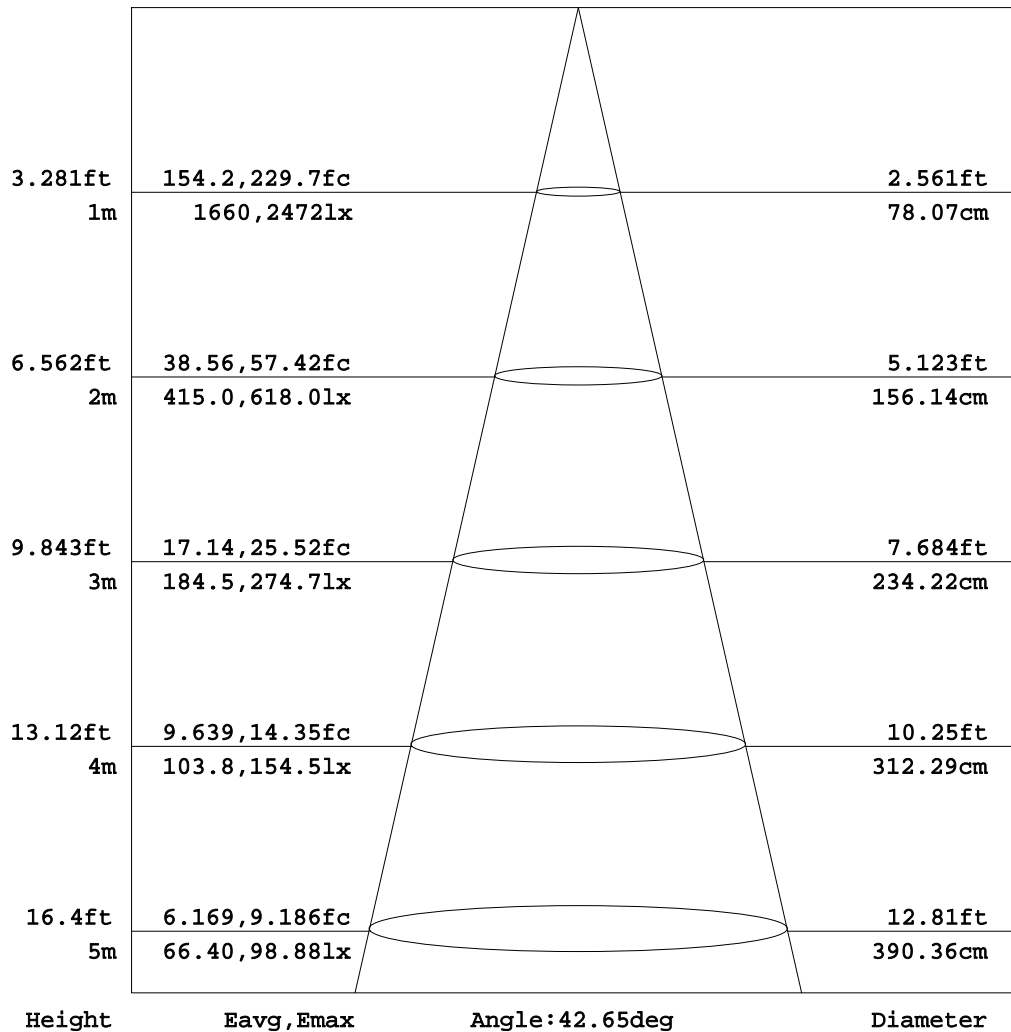
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**AAI Figure**

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Flux out:851.3 lm



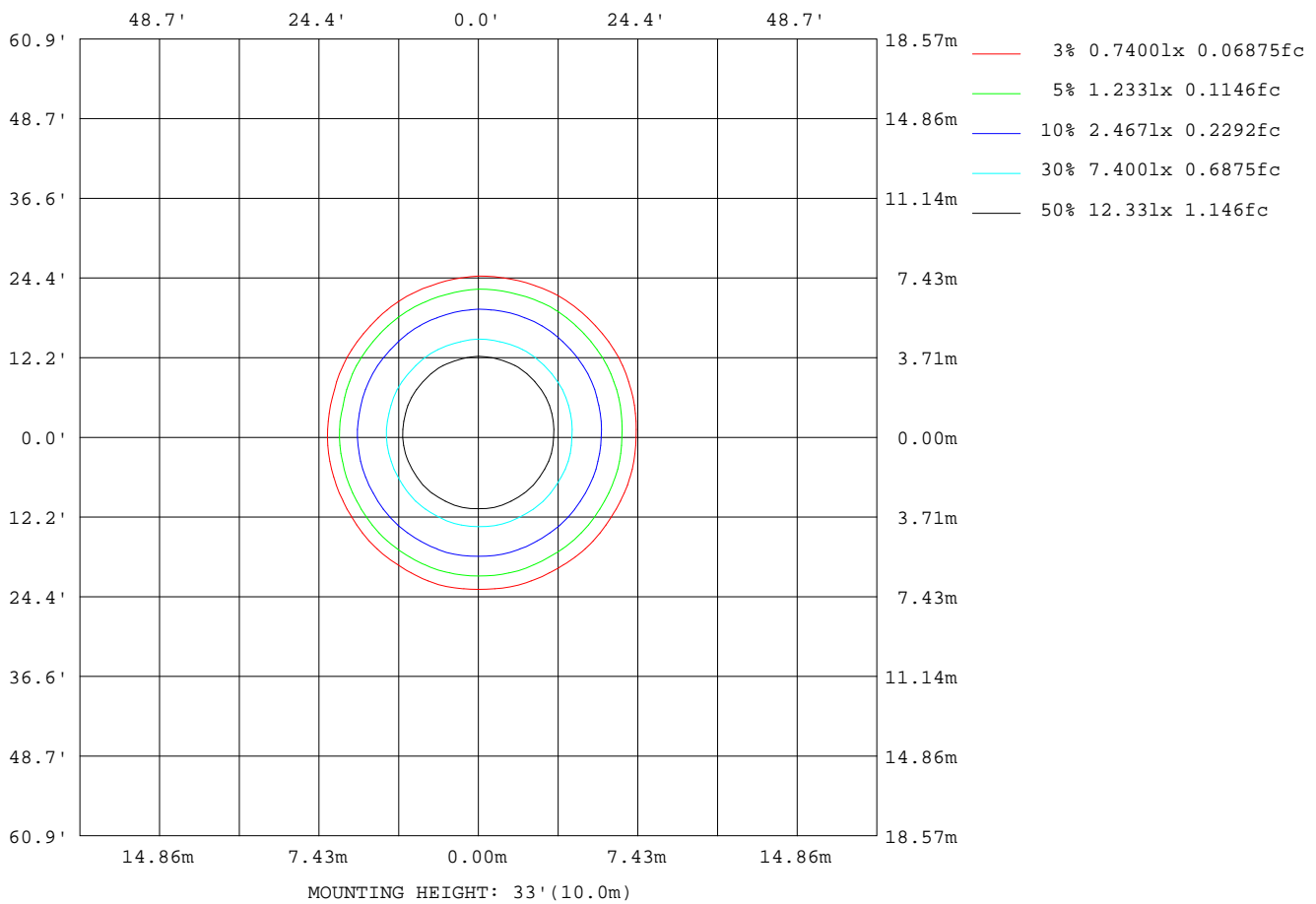
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

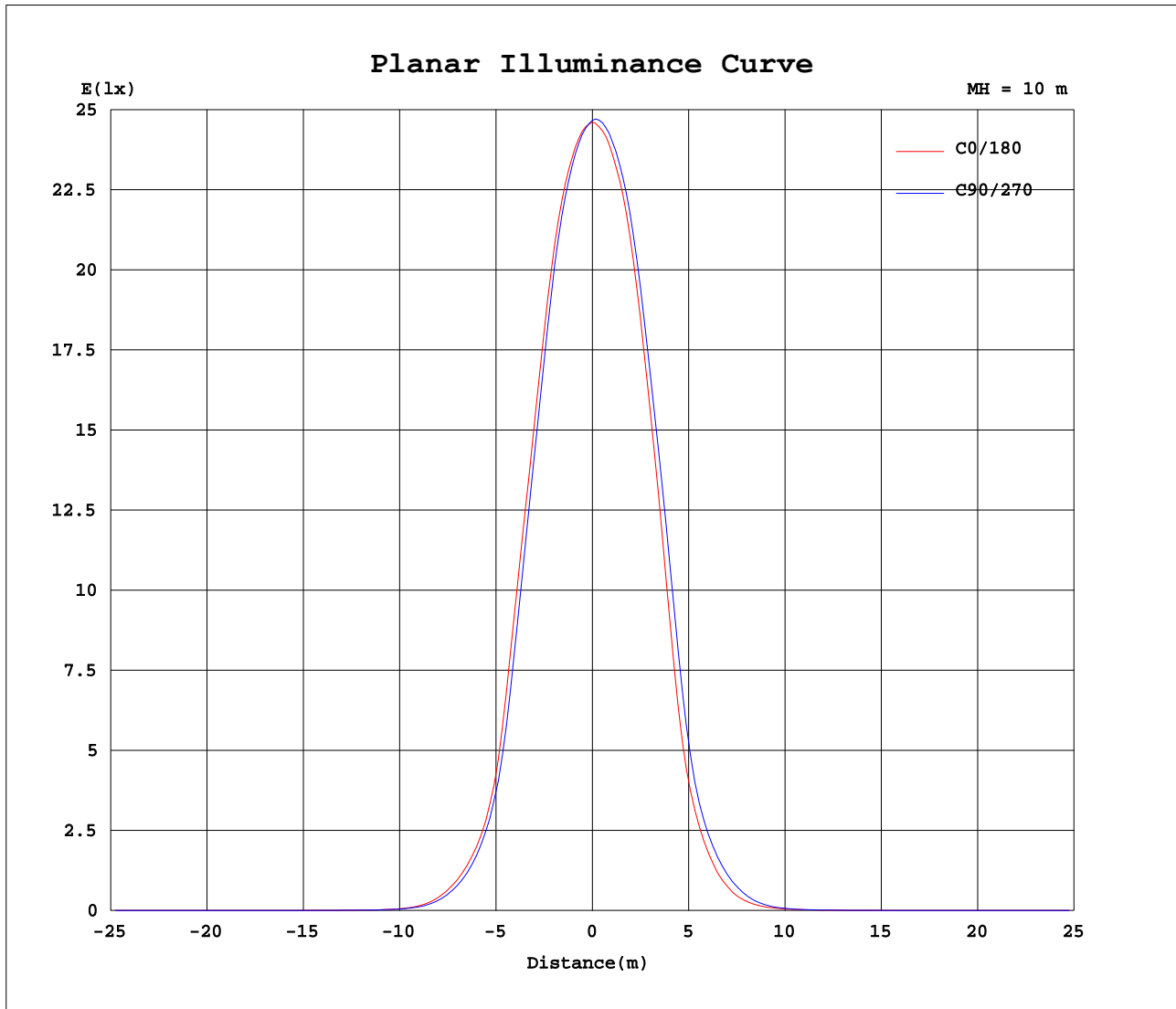
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### Planar Illuminance Curve



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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	2462	2463	2465	2466	2466	2467	2467	2467	2467	2467
3.0	2443	2444	2439	2437	2435	2433	2433	2434	2436	2442
6.0	2389	2383	2375	2371	2366	2365	2363	2369	2365	2375
9.0	2299	2291	2272	2269	2256	2255	2251	2259	2260	2277
12.0	2139	2128	2097	2083	2064	2066	2057	2068	2066	2097
15.0	1897	1880	1843	1828	1800	1804	1792	1806	1807	1839
18.0	1604	1585	1540	1529	1497	1504	1489	1507	1505	1541
21.0	1284	1257	1206	1190	1155	1155	1139	1157	1137	1165
24.0	900.2	882.1	834.4	821.9	788.0	784.1	762.3	767.1	748.4	762.5
27.0	555.5	539.8	520.2	505.3	495.1	491.2	488.0	490.6	481.5	490.5
30.0	363.8	353.1	336.0	331.1	321.0	321.8	318.3	322.2	316.3	320.8
33.0	240.7	234.0	219.9	215.7	205.8	206.6	201.0	202.4	197.4	196.7
36.0	148.3	144.0	134.2	132.6	124.7	124.8	119.4	121.8	113.3	110.1
39.0	79.62	77.05	71.16	69.21	64.71	64.24	61.51	60.87	58.72	56.35
42.0	36.28	35.29	32.35	32.12	29.82	29.92	28.80	28.71	27.08	27.03
45.0	16.46	15.93	14.81	14.76	13.98	14.14	13.84	13.99	13.61	13.76
48.0	8.962	8.545	8.094	7.999	7.601	7.641	7.455	7.631	7.553	7.694
51.0	5.420	5.172	4.880	4.852	4.627	4.626	4.536	4.608	4.571	4.726
54.0	3.657	3.521	3.285	3.309	3.154	3.153	3.086	3.119	3.065	3.248
57.0	2.161	2.065	1.898	1.937	1.867	1.854	1.797	1.816	1.773	1.939
60.0	1.136	1.095	1.017	1.056	1.015	0.9929	0.9426	0.9581	0.9382	1.102
63.0	0.5181	0.4972	0.4763	0.5325	0.5023	0.4823	0.4476	0.4648	0.4541	0.6309
66.0	0.2868	0.2600	0.3065	0.3845	0.3742	0.3388	0.3260	0.2971	0.3086	0.4742
69.0	0.2232	0.2010	0.2145	0.2401	0.2977	0.2682	0.2148	0.1921	0.2342	0.3582
72.0	0.0950	0.0872	0.0796	0.0700	0.0950	0.0765	0.0838	0.0765	0.0863	0.1955
75.0	0.0634	0.0612	0.0722	0.0700	0.0875	0.0787	0.0765	0.0744	0.0787	0.0635
78.0	0.0612	0.0612	0.0678	0.0700	0.0831	0.0787	0.0765	0.0765	0.0787	0.0722
81.0	0.0612	0.0612	0.0678	0.0700	0.0831	0.0809	0.0765	0.0765	0.0787	0.0722
84.0	0.0590	0.0612	0.0678	0.0700	0.0831	0.0809	0.0765	0.0765	0.0787	0.0722
87.0	0.0590	0.0634	0.0678	0.0700	0.0831	0.0831	0.0765	0.0765	0.0787	0.0722
90.0	0.0590	0.0700	0.0678	0.0700	0.0831	0.0853	0.0765	0.0765	0.0787	0.0722

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	2467	2468	2463	2465	2466	2466	2467	2467	2467	2467
3.0	2441	2448	2444	2451	2456	2460	2468	2469	2469	2470
6.0	2382	2395	2398	2409	2423	2426	2436	2436	2438	2436
9.0	2286	2304	2320	2329	2349	2360	2371	2371	2376	2369
12.0	2107	2140	2172	2185	2214	2229	2249	2250	2256	2243
15.0	1856	1897	1938	1957	2001	2014	2043	2042	2055	2040
18.0	1558	1601	1645	1667	1714	1732	1772	1774	1792	1774
21.0	1168	1211	1262	1289	1344	1369	1427	1438	1474	1462
24.0	760.1	791.2	837.8	860.5	919.9	940.7	1000	1019	1066	1058
27.0	491.3	503.8	526.9	548.0	575.7	594.1	634.3	648.7	683.9	678.4
30.0	316.4	324.4	339.4	347.7	369.4	382.4	408.4	418.4	439.7	437.1
33.0	190.4	194.1	201.0	206.5	225.2	235.9	256.3	267.5	284.6	285.5
36.0	104.6	105.9	109.2	111.2	126.4	133.0	149.5	158.0	170.8	173.7
39.0	54.44	53.83	55.62	58.12	63.26	69.03	78.66	83.55	91.64	93.76
42.0	25.71	26.42	27.64	28.21	31.36	33.22	37.27	39.03	42.47	42.99
45.0	13.42	14.10	14.82	15.08	16.15	16.73	18.06	18.47	19.66	19.59
48.0	7.607	8.036	8.447	8.555	9.025	9.115	9.528	9.500	10.04	10.05
51.0	4.616	4.837	5.056	5.090	5.348	5.344	5.388	5.327	5.583	5.721
54.0	3.185	3.313	3.386	3.404	3.519	3.520	3.585	3.539	3.644	3.769
57.0	1.891	1.926	1.970	1.989	2.090	2.090	2.162	2.133	2.223	2.304
60.0	1.052	1.032	1.051	1.069	1.095	1.076	1.110	1.082	1.145	1.222
63.0	0.5721	0.5194	0.5014	0.4934	0.4727	0.4694	0.4792	0.4585	0.5010	0.5505
66.0	0.4658	0.3453	0.2972	0.2844	0.2207	0.2254	0.1944	0.2014	0.2032	0.2583
69.0	0.3786	0.3061	0.2600	0.2232	0.1791	0.1925	0.1529	0.1641	0.1594	0.2013
72.0	0.2457	0.2584	0.1973	0.1512	0.1196	0.1271	0.1067	0.1204	0.1110	0.1424
75.0	0.0568	0.0656	0.0612	0.0568	0.0634	0.0831	0.0634	0.0809	0.0634	0.0765
78.0	0.0612	0.0656	0.0634	0.0525	0.0634	0.0787	0.0634	0.0787	0.0634	0.0744
81.0	0.0634	0.0656	0.0634	0.0525	0.0634	0.0787	0.0634	0.0656	0.0634	0.0700
84.0	0.0634	0.0656	0.0590	0.0525	0.0612	0.0700	0.0634	0.0656	0.0634	0.0678
87.0	0.0634	0.0656	0.0568	0.0525	0.0481	0.0590	0.0568	0.0656	0.0612	0.0656
90.0	0.0634	0.0656	0.0590	0.0525	0.0481	0.0568	0.0568	0.0656	0.0612	0.0612

G/C	300.0	315.0	330.0	345.0
0.0	2467	2467	2467	2468
3.0	2469	2466	2461	2457
6.0	2438	2427	2419	2409
9.0	2368	2354	2343	2324
12.0	2241	2220	2207	2178
15.0	2035	1998	1986	1943
18.0	1769	1727	1704	1656
21.0	1462	1422	1393	1338

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-07-14

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	1074	1031	1013	956.5
27.0	685.4	649.9	634.1	593.3
30.0	441.6	422.6	412.6	387.1
33.0	290.9	280.1	272.6	258.0
36.0	181.5	173.2	171.1	160.8
39.0	97.18	94.48	94.14	87.88
42.0	44.84	43.39	43.58	40.79
45.0	20.66	20.16	20.23	18.66
48.0	10.77	11.12	10.95	9.801
51.0	6.223	6.588	6.343	5.762
54.0	4.127	4.340	4.238	3.983
57.0	2.625	2.746	2.643	2.466
60.0	1.461	1.557	1.488	1.345
63.0	0.6975	0.7739	0.7391	0.6402
66.0	0.3298	0.3896	0.3822	0.3327
69.0	0.2337	0.2801	0.2751	0.2538
72.0	0.1497	0.1840	0.1627	0.1471
75.0	0.0503	0.0678	0.0568	0.0700
78.0	0.0503	0.0634	0.0547	0.0678
81.0	0.0503	0.0634	0.0525	0.0634
84.0	0.0503	0.0612	0.0503	0.0634
87.0	0.0503	0.0591	0.0503	0.0590
90.0	0.0503	0.0503	0.0503	0.0503

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-07-14

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: