

LED Downlight SENSE Series S125R2-18W-940-N



Light Output Ratio:	100.0%	
Luminaire Power:	19.29 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: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-18

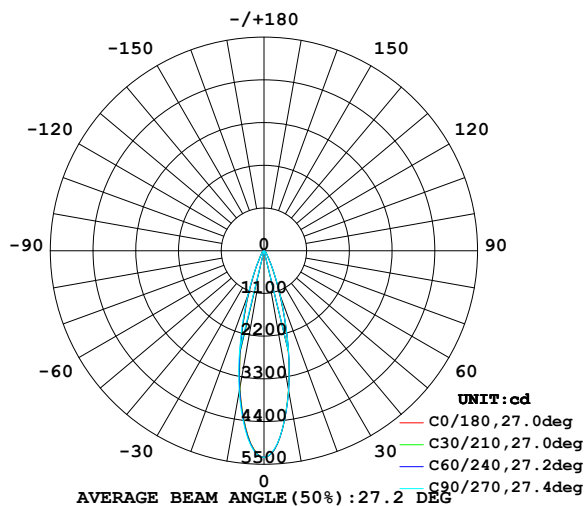
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

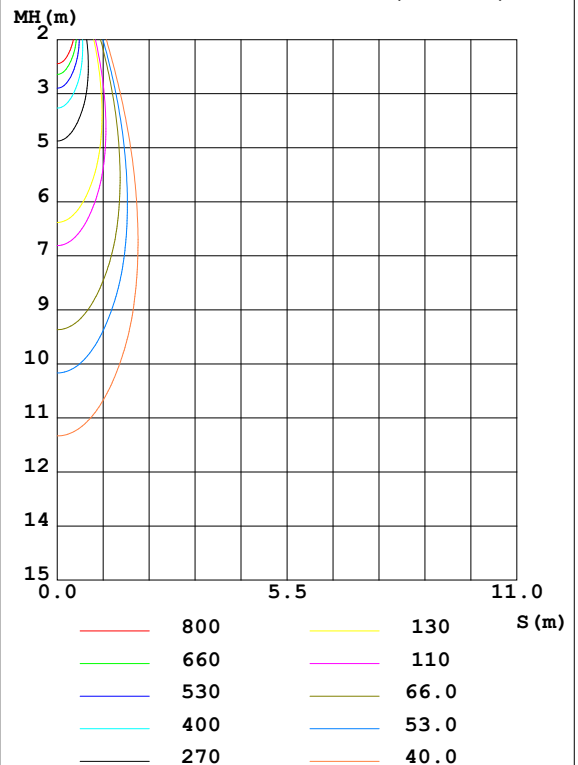
Test:U:220.7V I:0.0929A P:19.29W PF:0.9410 Lamp Flux:1508.54x1 lm		
NAME: S125R2-18W-940-N	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 135mm*H157mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.21 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	5324	S/MH (C0/180)	0.45
NOMINAL POWER (W)	21	LOR (%)	100.0	S/MH (C90/270)	0.46
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1508.5	η UP, DN (C0-180)	0.0, 50.3
NOMINAL FLUX (lm)	1508.54	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.7
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)



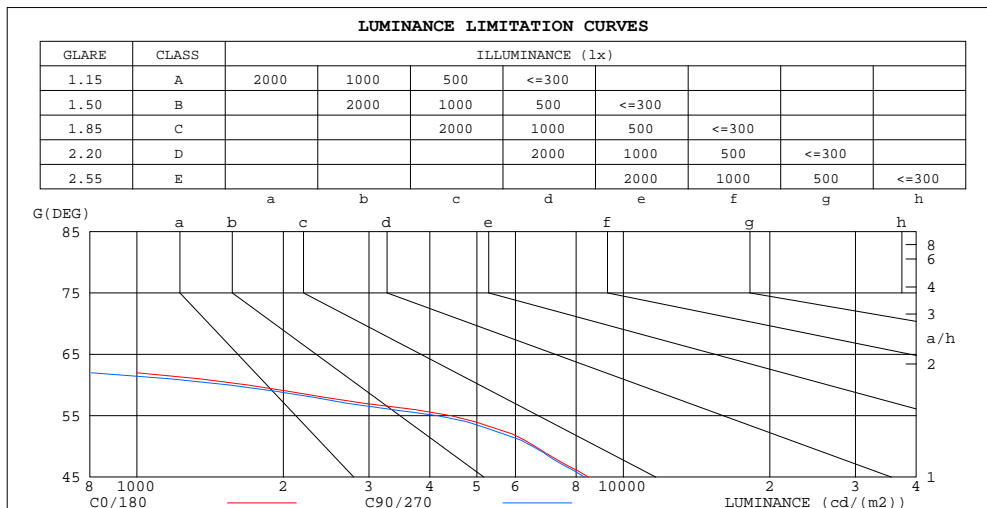
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Humidity: 52%
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Remarks:

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	3643	3682	3657	3621	3583	3563	3678	3694	0- 10	420.4	420.4	27.9,27.9
20	1193	1241	1220	1181	1133	1119	1218	1218	10- 20	624.2	1045	69.2,69.2
30	265.0	270.1	270.0	264.0	253.2	245.3	262.3	265.0	20- 30	268.1	1313	87,87
40	106.9	106.8	105.8	103.8	101.5	99.12	100.7	102.7	30- 40	99.66	1412	93.6,93.6
50	60.56	61.66	59.87	58.80	57.10	56.18	57.14	58.53	40- 50	62.21	1475	97.7,97.7
60	12.06	12.46	11.06	11.02	11.15	11.08	11.41	11.79	50- 60	30.07	1505	99.7,99.7
70	0.9535	0.9866	0.7718	0.7704	0.8551	0.7973	0.8746	0.9703	60- 70	3.493	1508	100,100
80	0.1640	0.1159	0.0700	0.0612	0.0787	0.0743	0.0787	0.0831	70- 80	0.3424	1508	100,100
90	0.1334	0.0787	0.0612	0.0612	0.0525	0.0547	0.0656	0.0678	80- 90	0.0938	1509	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	152	53
80	66	28
75	87	60
70	195	158
65	415	350
60	1687	1546
55	4422	4152
50	6585	6510
45	8480	8323

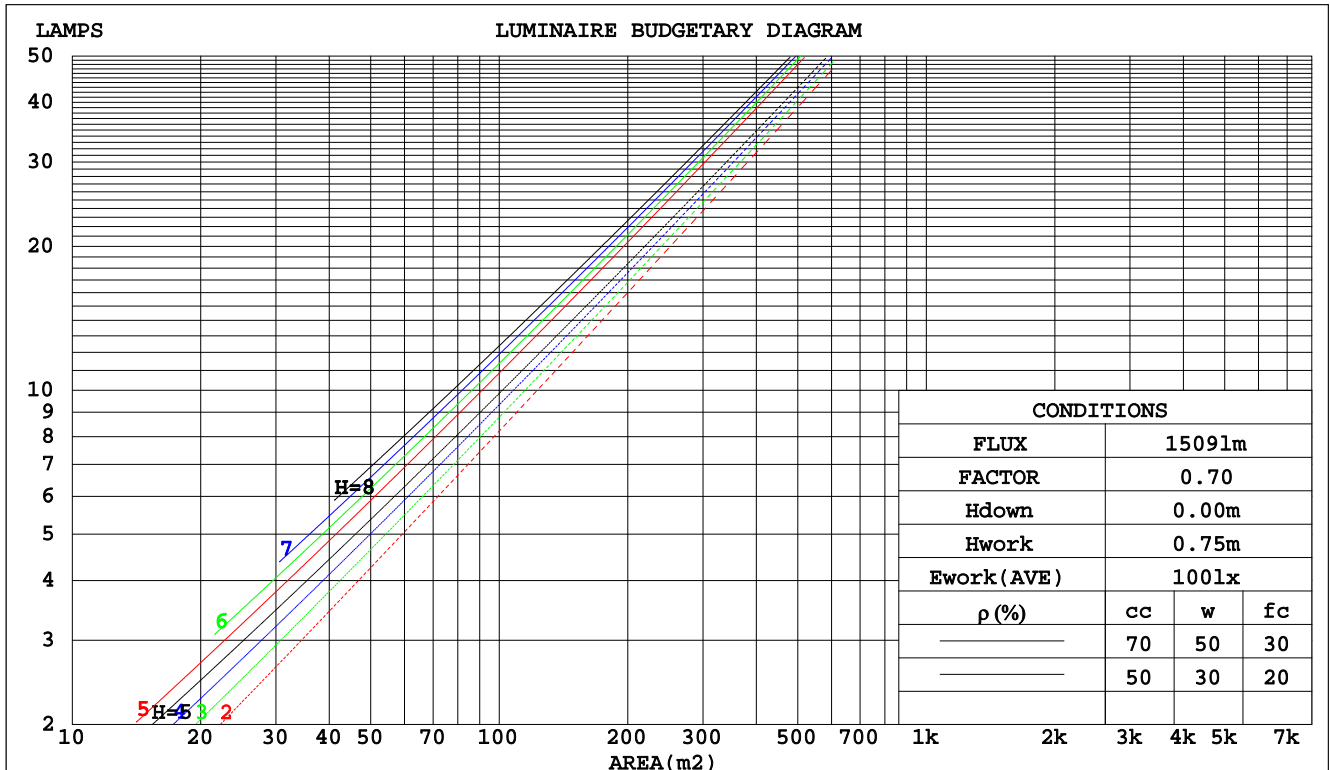
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Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-07-18

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:0.0929A P:19.29W PF:0.9410 Lamp Flux:1508.54x1 lm		
NAME: S125R2-18W-940-N	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 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	.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	.00	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	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.91	.88	.95	.91	.87	.93	.89	.86	.91	.88	.85	.89	.87	.85	.83
5.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.82	.86	.83	.81	.80
6.0	.88	.83	.80	.87	.83	.79	.86	.82	.79	.84	.81	.78	.83	.80	.78	.77
7.0	.84	.79	.76	.84	.79	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.74
8.0	.81	.76	.73	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.71
9.0	.78	.74	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.70	.69
10.0	.76	.71	.68	.75	.71	.68	.74	.70	.68	.74	.70	.68	.73	.70	.67	.66



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WEC AND CCEC

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SPEC.:4000K	DIM.: ϕ 135mm*H157mm	
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	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	.142	.078	.024	.136	.075	.023	.126	.070	.022	.117	.065	.020	.108	.061	.019	
3.0	.134	.071	.021	.129	.069	.021	.120	.065	.020	.112	.061	.019	.105	.058	.018	
4.0	.126	.065	.019	.122	.064	.019	.115	.061	.018	.108	.058	.017	.101	.055	.017	
5.0	.119	.061	.018	.116	.059	.017	.109	.057	.017	.103	.055	.016	.098	.052	.016	
6.0	.113	.057	.016	.110	.056	.016	.105	.054	.016	.099	.052	.015	.095	.050	.015	
7.0	.107	.053	.015	.105	.052	.015	.100	.051	.015	.096	.049	.014	.091	.047	.014	
8.0	.102	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013	
9.0	.098	.047	.013	.096	.047	.013	.092	.046	.013	.089	.044	.013	.085	.043	.013	
10.0	.094	.045	.012	.092	.044	.012	.089	.043	.012	.085	.042	.012	.082	.041	.012	

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	.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	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.081	.054	.034	.056	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.030	.073	.045	.026	.050	.032	.019	.029	.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:0.0929A P:19.29W PF:0.9410 Lamp Flux:1508.54x1 lm										
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SPEC.:4000K					DIM.: ϕ 135mm*H157mm					
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	12.3	13.1	12.5	13.2	13.4	12.3	13.0	12.5	13.2	13.3
3H	12.2	12.9	12.4	13.0	13.2	12.1	12.8	12.4	13.0	13.2
4H	12.1	12.7	12.3	13.0	13.2	12.0	12.7	12.3	12.9	13.1
6H	12.0	12.6	12.3	12.9	13.1	12.0	12.6	12.2	12.8	13.1
8H	11.9	12.6	12.2	12.8	13.1	11.9	12.5	12.2	12.8	13.0
12H	11.9	12.5	12.2	12.7	13.0	11.9	12.4	12.2	12.7	13.0
4H 2H	12.2	12.8	12.4	13.1	13.3	12.1	12.8	12.4	13.0	13.2
3H	12.0	12.6	12.3	12.9	13.1	12.0	12.6	12.3	12.8	13.1
4H	11.9	12.4	12.3	12.7	13.0	11.9	12.4	12.2	12.7	13.0
6H	11.8	12.3	12.2	12.6	13.0	11.8	12.2	12.1	12.6	12.9
8H	11.8	12.2	12.2	12.5	12.9	11.7	12.2	12.1	12.5	12.9
12H	11.7	12.1	12.1	12.5	12.9	11.7	12.1	12.1	12.4	12.8
8H 4H	11.8	12.2	12.2	12.5	12.9	11.7	12.2	12.1	12.5	12.9
6H	11.7	12.0	12.1	12.4	12.8	11.6	12.0	12.0	12.4	12.8
8H	11.6	11.9	12.0	12.3	12.8	11.6	11.9	12.0	12.3	12.7
12H	11.5	11.8	12.0	12.3	12.7	11.5	11.8	12.0	12.2	12.7
12H 4H	11.7	12.1	12.1	12.5	12.9	11.7	12.1	12.1	12.4	12.8
6H	11.6	11.9	12.0	12.3	12.8	11.6	11.9	12.0	12.3	12.7
8H	11.5	11.8	12.0	12.2	12.7	11.5	11.8	12.0	12.2	12.7
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 4.1					+ 2.0 / - 4.6				
1.5H	+ 1.0 / - 1.8					+ 1.1 / - 1.8				
2.0H	+ 3.8 / -13.4					+ 3.8 / -13.7				

CIE Pub.117 Corrected 1509 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.4)

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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:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0929A P:19.29W PF:0.9410 Lamp Flux:1508.54x1 lm		
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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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	94	90	99	93	90	97	93	90	86
1.25	103	98	95	102	98	95	100	97	94	90
1.50	106	101	98	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	105	102	99	94
2.50	110	107	104	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	109	109	108	106	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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Conical surface Flux(90deg):

1446.4 lm

%lum = 95.9%

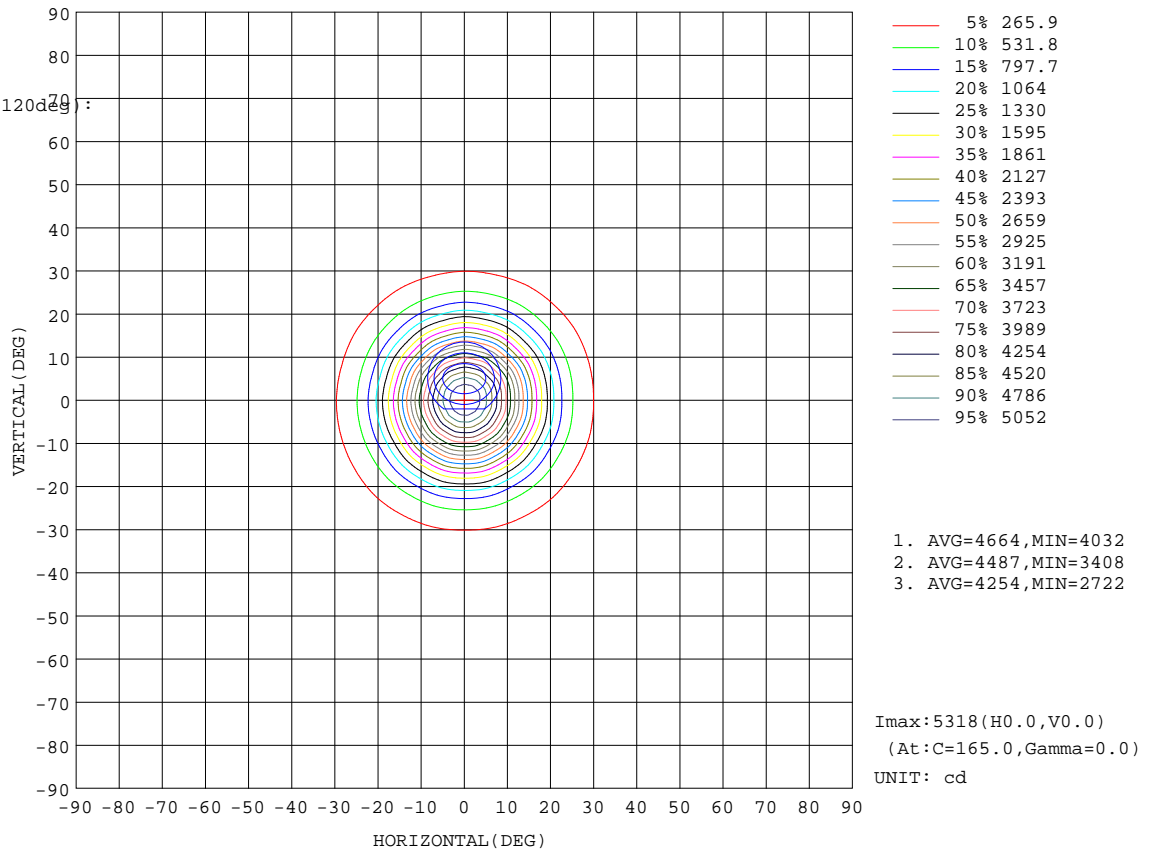
%lamp = 95.9%

Conical surface Flux(120deg):

1504.6 lm

%lum = 99.7%

%lamp = 99.7%



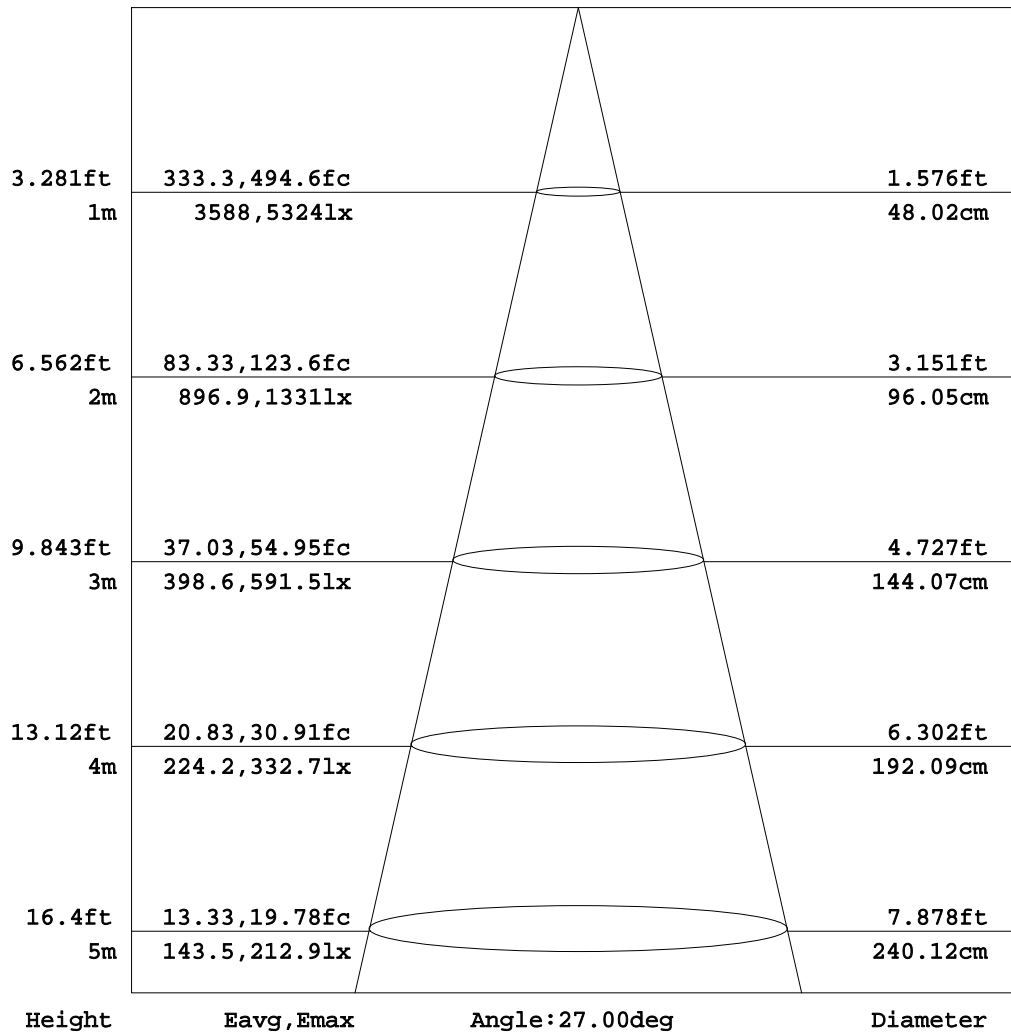
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AAI Figure

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Flux out:700.7 lm



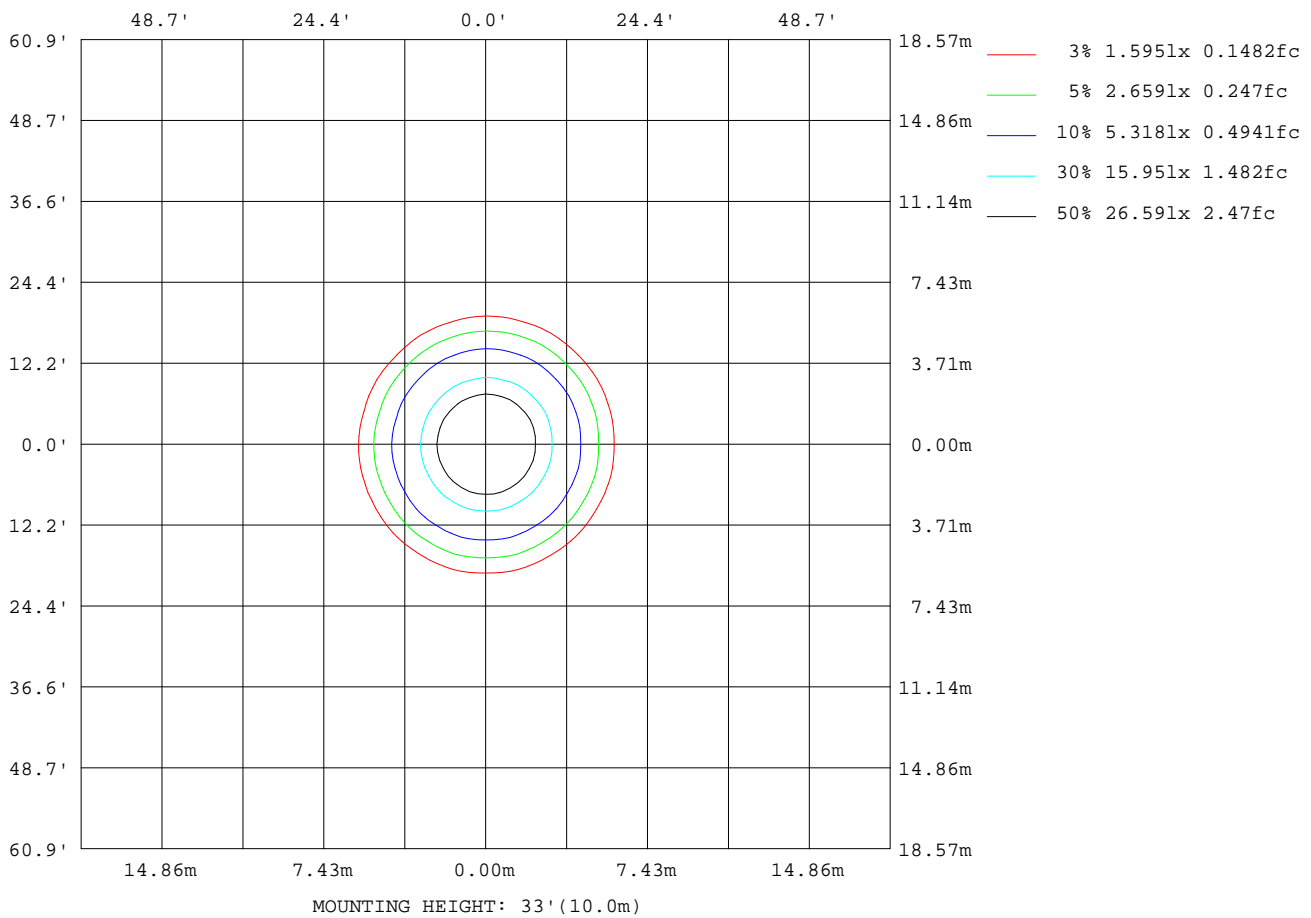
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

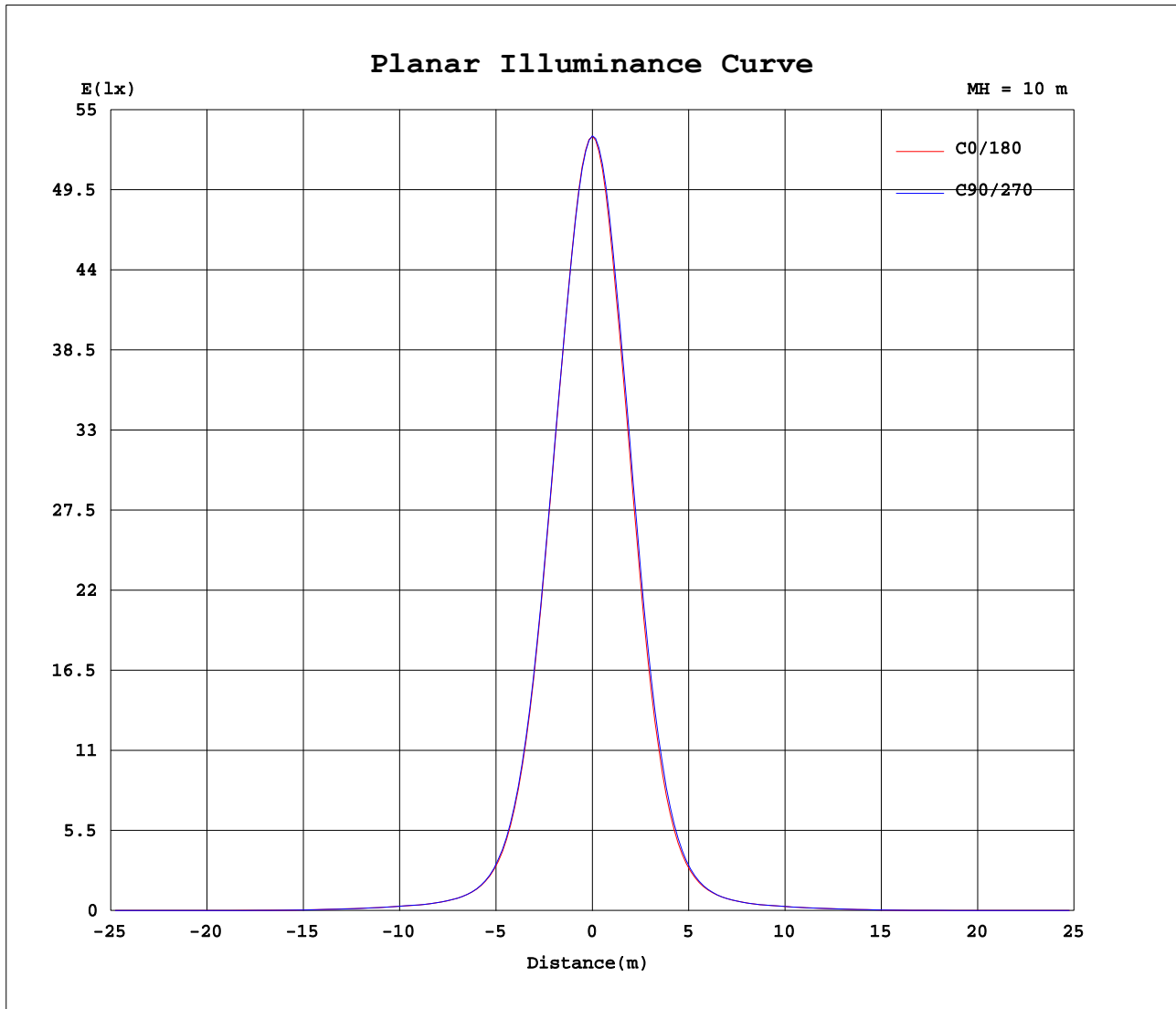
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Planar Illuminance Curve



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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	5318	5318	5319	5320	5320	5320	5321	5321	5321	5322
3.0	5130	5144	5127	5141	5123	5136	5115	5124	5101	5109
6.0	4605	4629	4602	4628	4602	4625	4593	4608	4566	4576
9.0	3895	3926	3896	3934	3907	3942	3903	3922	3870	3877
12.0	3111	3144	3117	3157	3133	3169	3131	3147	3086	3088
15.0	2301	2337	2311	2351	2326	2364	2325	2341	2282	2281
18.0	1584	1616	1597	1631	1611	1643	1613	1623	1574	1569
21.0	1026	1049	1036	1060	1048	1073	1051	1059	1023	1017
24.0	640.4	654.7	645.7	662.4	655.6	672.3	660.0	665.3	641.8	638.0
27.0	401.8	409.8	404.1	413.0	409.3	419.3	413.2	417.3	403.8	400.9
30.0	265.0	269.6	265.6	270.1	267.5	273.2	270.0	272.6	264.8	264.0
33.0	187.5	190.0	187.5	189.5	187.7	190.6	188.5	189.9	186.0	185.2
36.0	142.4	144.1	142.3	143.6	142.1	143.9	142.3	143.1	141.2	141.0
39.0	114.7	115.6	114.6	114.6	113.6	114.3	113.4	112.9	111.7	111.2
42.0	95.14	95.45	95.23	95.33	95.02	95.38	95.25	94.78	94.08	93.40
45.0	85.78	86.58	87.02	87.86	85.65	85.55	84.20	83.09	82.18	81.87
48.0	69.31	70.20	70.12	70.26	69.45	69.38	68.35	67.80	66.76	66.48
51.0	56.41	57.44	57.58	58.37	56.61	56.70	55.43	55.39	53.88	53.79
54.0	41.66	42.61	42.31	42.69	41.59	41.58	40.12	40.28	39.56	39.54
57.0	22.89	23.55	22.72	22.78	21.80	21.96	21.12	21.09	20.33	20.43
60.0	12.06	12.61	12.30	12.46	11.86	11.79	11.06	11.03	10.60	11.02
63.0	4.189	4.687	4.058	4.164	3.447	3.419	2.996	2.960	2.868	2.982
66.0	2.106	2.188	2.101	2.101	2.016	1.946	1.786	1.736	1.685	1.740
69.0	1.188	1.246	1.216	1.222	1.151	1.098	0.9844	0.9669	0.9316	0.9582
72.0	0.5990	0.6394	0.6209	0.6307	0.5617	0.5237	0.4588	0.4691	0.4521	0.4756
75.0	0.3223	0.3450	0.3136	0.3055	0.2742	0.2422	0.2215	0.2161	0.2215	0.2160
78.0	0.1731	0.1640	0.1514	0.1049	0.0858	0.0634	0.0812	0.0634	0.0770	0.0634
81.0	0.1705	0.1750	0.1442	0.1224	0.0700	0.0590	0.0700	0.0656	0.0722	0.0612
84.0	0.1814	0.1925	0.1639	0.1246	0.0678	0.0590	0.0656	0.0612	0.0656	0.0612
87.0	0.1968	0.1743	0.1532	0.0917	0.0700	0.0590	0.0634	0.0612	0.0634	0.0612
90.0	0.1334	0.1224	0.0984	0.0787	0.0700	0.0634	0.0612	0.0612	0.0634	0.0612

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5321	5324	5318	5318	5319	5320	5320	5320	5321	5321
3.0	5087	5099	5110	5096	5117	5108	5131	5125	5146	5140
6.0	4533	4548	4565	4537	4573	4559	4603	4594	4638	4625
9.0	3818	3829	3843	3805	3846	3828	3884	3876	3932	3921
12.0	3020	3023	3031	2989	3028	3013	3075	3069	3134	3126
15.0	2213	2212	2217	2170	2212	2195	2258	2250	2318	2309
18.0	1511	1509	1513	1476	1509	1496	1547	1546	1601	1594
21.0	975.2	970.8	973.6	946.0	969.0	960.1	997.1	999.4	1039	1034
24.0	610.3	606.9	607.7	589.6	602.7	596.6	620.9	622.6	649.7	646.7
27.0	384.8	382.6	382.8	371.2	377.4	373.1	386.6	388.6	404.1	403.0
30.0	254.7	253.5	246.3	246.3	248.7	245.3	252.4	253.2	262.3	261.0
33.0	180.3	179.4	179.5	175.2	175.7	173.4	177.0	177.4	182.0	180.9
36.0	137.2	136.4	133.2	133.3	133.9	132.1	134.2	135.5	136.9	136.0
39.0	109.6	108.9	109.0	107.2	106.8	105.7	106.6	106.9	107.9	106.9
42.0	92.62	91.57	91.39	90.45	90.54	90.49	90.95	91.68	90.88	90.42
45.0	80.34	80.00	80.24	79.37	79.51	78.64	79.32	79.01	79.71	78.80
48.0	65.52	65.11	65.34	64.82	64.94	64.43	64.84	65.12	65.36	65.01
51.0	52.27	52.31	52.74	52.02	52.56	52.00	52.47	52.42	52.94	52.50
54.0	38.03	38.26	38.88	38.30	39.22	38.54	39.12	38.62	39.21	38.91
57.0	19.85	20.13	20.54	19.93	20.36	19.92	20.38	20.18	21.18	21.05
60.0	10.63	10.81	11.15	10.91	11.43	11.08	11.20	10.99	11.41	11.35
63.0	3.013	3.053	3.161	3.056	3.085	3.057	3.246	3.309	3.590	3.554
66.0	1.692	1.738	1.792	1.748	1.768	1.719	1.820	1.879	1.995	2.024
69.0	0.9402	0.9823	1.045	1.038	1.032	0.9790	1.010	1.025	1.099	1.128
72.0	0.4608	0.4975	0.5431	0.5458	0.5431	0.4998	0.5146	0.5065	0.5430	0.5504
75.0	0.2237	0.2334	0.2704	0.2892	0.2726	0.2476	0.2333	0.2390	0.2573	0.2783
78.0	0.0791	0.0634	0.0722	0.0858	0.0744	0.0834	0.0765	0.0855	0.0700	0.0922
81.0	0.0700	0.0634	0.0787	0.0743	0.0787	0.0743	0.0787	0.0743	0.0765	0.0765
84.0	0.0634	0.0590	0.0590	0.0833	0.0697	0.0939	0.0784	0.1047	0.1196	0.1220
87.0	0.0591	0.0590	0.0525	0.0568	0.0503	0.0569	0.0525	0.0678	0.0656	0.0722
90.0	0.0590	0.0590	0.0525	0.0568	0.0503	0.0547	0.0525	0.0656	0.0656	0.0634

G/C	300.0	315.0	330.0	345.0
0.0	5321	5322	5321	5324
3.0	5160	5152	5168	5156
6.0	4663	4644	4674	4646
9.0	3971	3945	3980	3942
12.0	3180	3158	3195	3159
15.0	2364	2337	2378	2342
18.0	1639	1615	1648	1618
21.0	1067	1049	1071	1048

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-07-18

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	667.6	655.6	669.3	655.1
27.0	415.7	408.9	416.8	409.9
30.0	267.9	265.0	270.8	268.0
33.0	184.7	183.9	188.5	188.4
36.0	137.5	137.4	141.2	142.2
39.0	108.7	110.0	112.5	114.3
42.0	91.28	92.00	93.47	94.63
45.0	80.29	81.91	84.44	85.27
48.0	65.85	66.70	68.12	69.06
51.0	53.84	54.69	56.42	56.61
54.0	40.50	41.03	42.72	42.46
57.0	22.23	22.51	23.72	23.56
60.0	11.88	11.79	12.42	12.36
63.0	4.193	4.137	4.741	4.532
66.0	2.106	2.080	2.104	2.105
69.0	1.204	1.194	1.196	1.183
72.0	0.6106	0.6160	0.6084	0.5876
75.0	0.3009	0.2915	0.2813	0.3046
78.0	0.0829	0.0966	0.1027	0.1468
81.0	0.0743	0.0831	0.1290	0.1616
84.0	0.1065	0.1286	0.1636	0.2031
87.0	0.0568	0.0744	0.0937	0.1575
90.0	0.0547	0.0678	0.0678	0.0896

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-18

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: