

LED Downlight SENSE Series S100R3-13W-940



Light Output Ratio:	100.0%	
Luminaire Power:	14.33 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.95	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-05-17

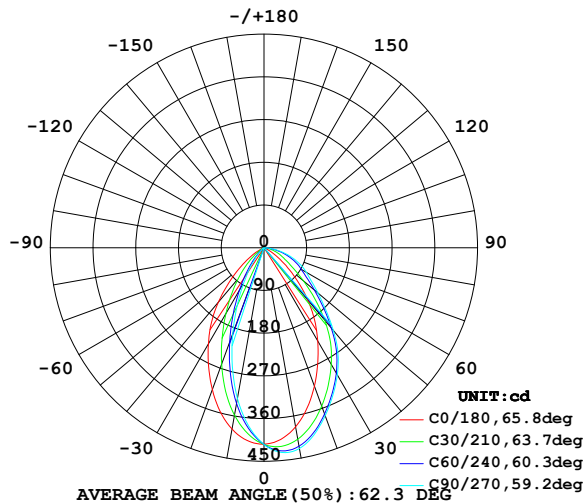
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

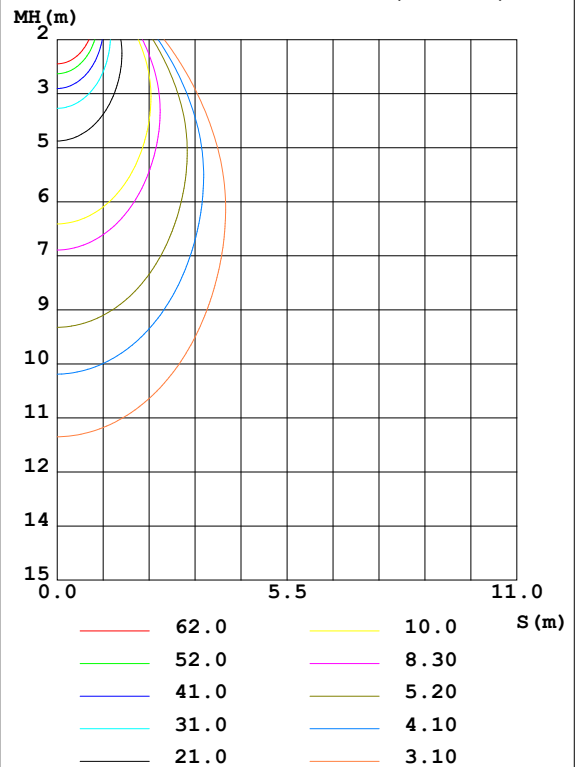
Test:U:220.7V I:0.0709A P:14.33W PF:0.9152 Lamp Flux:528.379x1 lm		
NAME: S100R3-13W-940	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 108mm*H126mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 36.87 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	434.1	S/MH (C0/180)	0.93
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.60
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	528.38	η UP,DN (C0-180)	0.0,70.4
NOMINAL FLUX (lm)	528.379	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,29.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



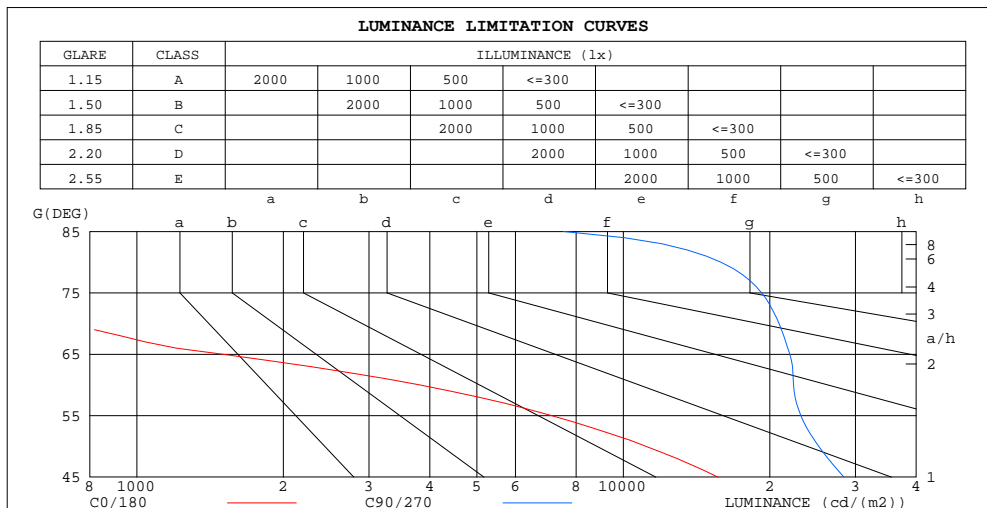
C Range: 0 - 360DEG
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Test Speed: HIGH
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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	383.2	419.0	429.4	420.6	388.1	343.5	322.7	340.2	0- 10	37.91	37.91	7.17,7.17
20	310.6	367.8	376.8	370.6	318.3	232.3	192.4	227.3	10- 20	95.79	133.7	25.3,25.3
30	226.7	298.4	309.2	300.5	234.6	127.3	85.23	122.4	20- 30	117.0	250.7	47.5,47.5
40	143.5	213.1	227.4	213.6	149.7	54.53	26.24	51.03	30- 40	108.3	359.1	68,68
50	65.55	126.2	148.4	123.9	68.86	15.35	6.971	13.53	40- 50	77.51	436.6	82.6,82.6
60	17.47	74.65	102.5	73.51	19.49	2.692	2.385	2.530	50- 60	46.39	483.0	91.4,91.4
70	2.248	44.93	65.47	45.24	3.606	1.044	0.9765	1.017	60- 70	28.21	511.2	96.7,96.7
80	0.2716	15.21	25.23	15.72	0.3988	0.4114	0.4325	0.3895	70- 80	14.64	525.8	99.5,99.5
90	0.0394	0.0306	0.0350	0.0306	0.0284	0.1137	0.1727	0.1246	80- 90	2.572	528.4	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	162	7527
80	171	15867
75	344	19243
70	718	20905
65	1499	21993
60	3817	22382
55	7129	23171
50	11138	25218
45	15651	28406

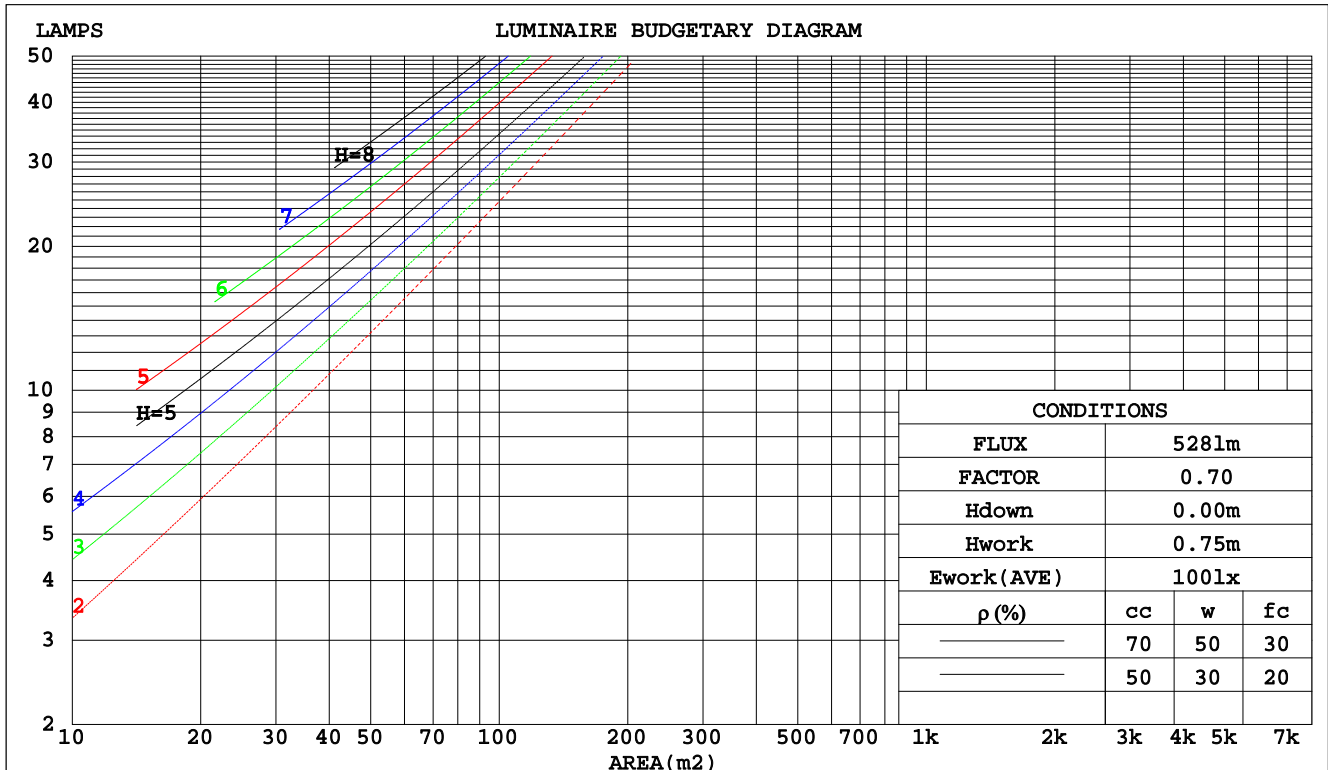
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0709A P:14.33W PF:0.9152 Lamp Flux:528.379x1 lm		
NAME: S100R3-13W-940	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 108mm*H126mm	
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	1.08	1.05	1.02	1.06	1.03	.00	1.01	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.88	.96	.91	.87	.92	.88	.85	.89	.86	.83	.86	.83	.81	.79
3.0	.88	.82	.77	.87	.81	.76	.84	.79	.75	.81	.77	.74	.79	.75	.72	.70
4.0	.81	.73	.68	.79	.73	.68	.77	.71	.67	.75	.70	.66	.73	.69	.65	.63
5.0	.74	.66	.61	.73	.66	.61	.71	.65	.60	.69	.64	.59	.67	.63	.59	.57
6.0	.68	.60	.55	.67	.60	.55	.65	.59	.54	.64	.58	.54	.62	.57	.54	.52
7.0	.63	.55	.50	.62	.55	.50	.61	.54	.50	.59	.54	.49	.58	.53	.49	.47
8.0	.58	.51	.46	.58	.51	.46	.56	.50	.46	.55	.50	.45	.54	.49	.45	.44
9.0	.54	.47	.42	.54	.47	.42	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
10.0	.51	.44	.39	.50	.44	.39	.49	.43	.39	.49	.43	.39	.48	.43	.39	.37



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WEC AND CCEC

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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	.235	.133	.042	.228	.130	.041	.215	.123	.039	.203	.117	.038	.192	.111	.036		
2.0	.225	.123	.038	.219	.121	.037	.208	.116	.036	.198	.111	.035	.189	.107	.034		
3.0	.213	.113	.034	.207	.111	.033	.198	.107	.033	.189	.103	.032	.181	.100	.031		
4.0	.200	.104	.031	.195	.102	.030	.187	.099	.030	.179	.096	.029	.172	.093	.028		
5.0	.188	.096	.028	.184	.094	.027	.176	.092	.027	.169	.089	.027	.163	.087	.026		
6.0	.177	.089	.025	.173	.088	.025	.167	.085	.025	.160	.083	.025	.155	.081	.024		
7.0	.167	.082	.023	.164	.082	.023	.158	.080	.023	.152	.078	.023	.147	.076	.022		
8.0	.158	.077	.022	.155	.076	.022	.149	.075	.021	.145	.073	.021	.140	.072	.021		
9.0	.149	.072	.020	.147	.072	.020	.142	.070	.020	.138	.069	.020	.133	.068	.020		
10.0	.142	.068	.019	.139	.067	.019	.135	.066	.019	.131	.065	.019	.127	.064	.018		

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	.175	.157	.140	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.163	.132	.106	.140	.114	.092	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.153	.114	.082	.132	.098	.071	.090	.068	.050	.052	.040	.030	.017	.013	.010	
4.0	.145	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.137	.089	.053	.118	.077	.047	.081	.054	.033	.047	.032	.019	.015	.010	.006	
6.0	.130	.080	.044	.112	.069	.039	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.123	.073	.038	.106	.063	.033	.073	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.117	.067	.032	.101	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.112	.062	.028	.096	.054	.025	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.092	.050	.022	.064	.035	.015	.037	.021	.009	.012	.007	.003	

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 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0709A P:14.33W PF:0.9152 Lamp Flux:528.379x1 lm										
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SPEC.:4000K					DIM.: ϕ 108mm*H126mm					
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	21.2	22.4	21.5	22.6	22.8	24.8	26.0	25.0	26.2	26.4
3H	21.2	22.4	21.5	22.6	22.8	26.3	27.4	26.5	27.6	27.8
4H	21.2	22.3	21.5	22.5	22.7	26.9	28.0	27.2	28.2	28.4
6H	21.1	22.1	21.4	22.4	22.6	27.3	28.3	27.6	28.5	28.8
8H	21.1	22.0	21.4	22.3	22.6	27.4	28.3	27.7	28.6	28.9
12H	21.0	21.9	21.3	22.2	22.5	27.4	28.3	27.7	28.6	28.9
4H 2H	22.2	23.2	22.4	23.5	23.7	25.0	26.1	25.3	26.3	26.6
3H	22.5	23.4	22.8	23.7	24.0	26.7	27.7	27.1	28.0	28.2
4H	22.5	23.4	22.9	23.7	24.0	27.5	28.3	27.9	28.7	29.0
6H	22.5	23.2	22.9	23.5	23.9	28.0	28.8	28.4	29.1	29.5
8H	22.4	23.1	22.8	23.5	23.8	28.2	28.9	28.6	29.2	29.6
12H	22.4	23.0	22.8	23.4	23.8	28.2	28.8	28.6	29.2	29.6
8H 4H	23.2	23.8	23.6	24.2	24.6	27.6	28.2	28.0	28.6	29.0
6H	23.2	23.7	23.6	24.1	24.6	28.2	28.8	28.6	29.2	29.6
8H	23.1	23.6	23.6	24.1	24.5	28.4	28.9	28.9	29.3	29.8
12H	23.1	23.5	23.6	24.0	24.4	28.5	28.9	28.9	29.3	29.8
12H 4H	23.2	23.9	23.7	24.2	24.6	27.5	28.1	27.9	28.5	28.9
6H	23.3	23.8	23.8	24.2	24.7	28.2	28.7	28.6	29.1	29.5
8H	23.3	23.7	23.8	24.2	24.6	28.4	28.8	28.9	29.3	29.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.1					+ 0.3 / - 0.3				
1.5H	+ 0.5 / - 1.1					+ 0.1 / - 0.2				
2.0H	+ 1.2 / - 2.1					+ 0.4 / - 0.5				

CIE Pub.117 Corrected 528.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.2)

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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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Remarks:

UTILIZATION FACTORS TABLE

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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) $k(RI) \times RCR = 5$									
$k = 0.60$	72	62	57	71	62	57	70	62	57	52
0.80	81	72	66	80	72	66	78	71	66	60
1.00	88	79	74	87	79	74	85	79	73	68
1.25	93	86	80	92	85	80	90	84	79	74
1.50	97	90	85	96	89	85	93	88	84	78
2.00	102	96	91	101	95	91	98	93	89	83
2.50	105	99	95	103	98	94	100	95	92	85
3.00	107	102	98	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	91
5.00	112	109	106	110	107	104	106	103	101	93
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):

402.29 lm

%lum = 76.1%

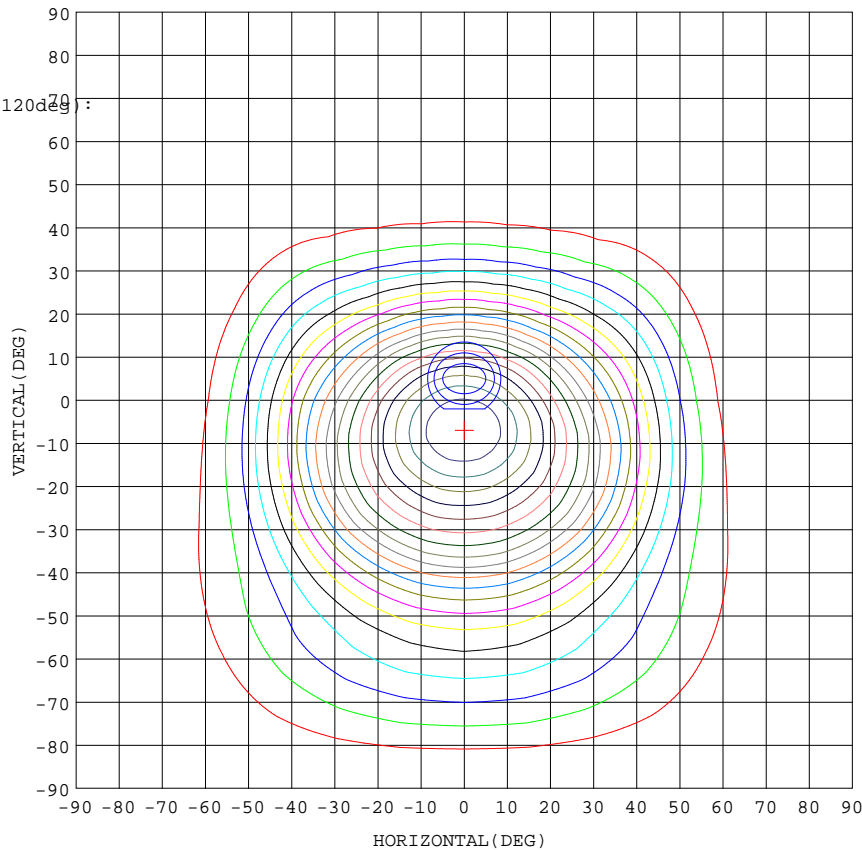
%lamp = 76.1%

Conical surface Flux(120deg):

482.97 lm

%lum = 91.4%

%lamp = 91.4%



1. AVG=373.3, MIN=340.1
2. AVG=369.8, MIN=310.1
3. AVG=363.5, MIN=278.0

I_{max}:434.1 (H0.0, V-7.0)
(At: C=90.0, Gamma=7.0)

UNIT: cd

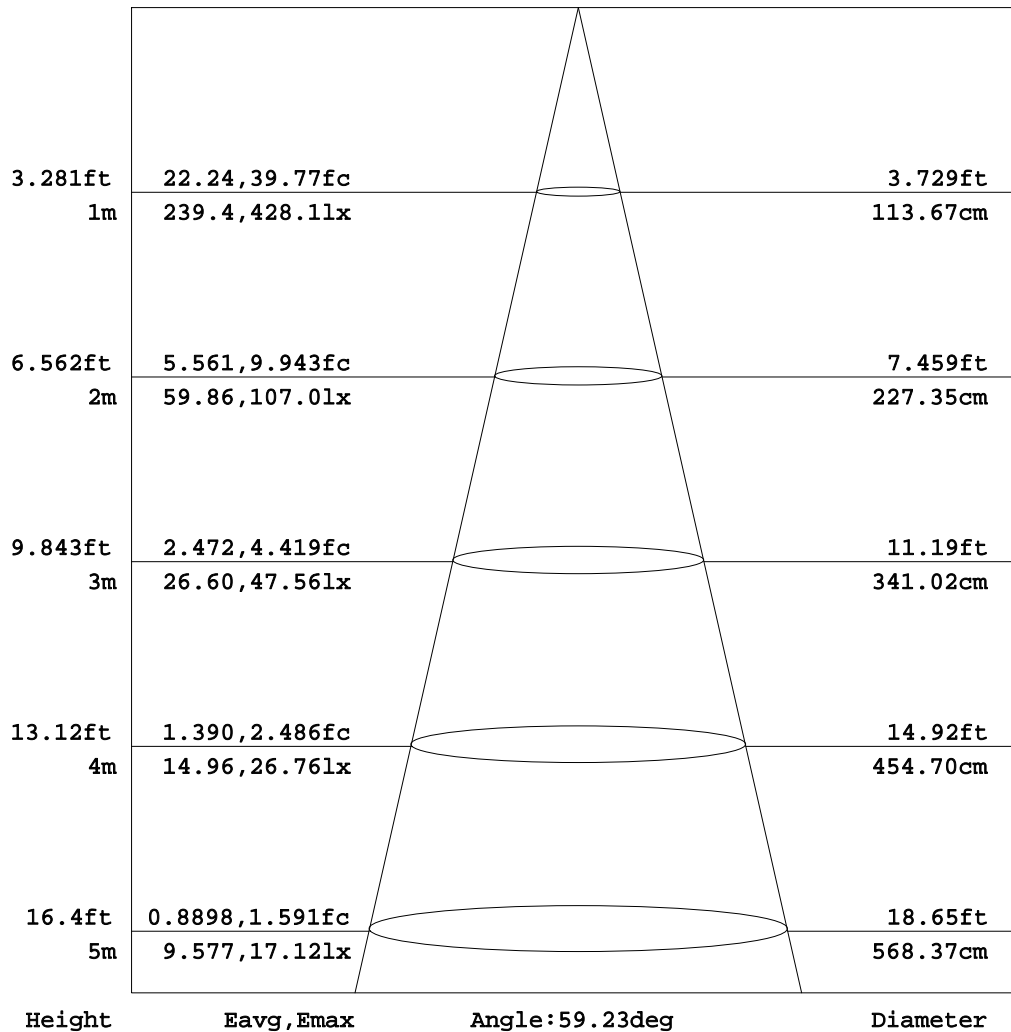
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AAI Figure

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Flux out:250.7 lm



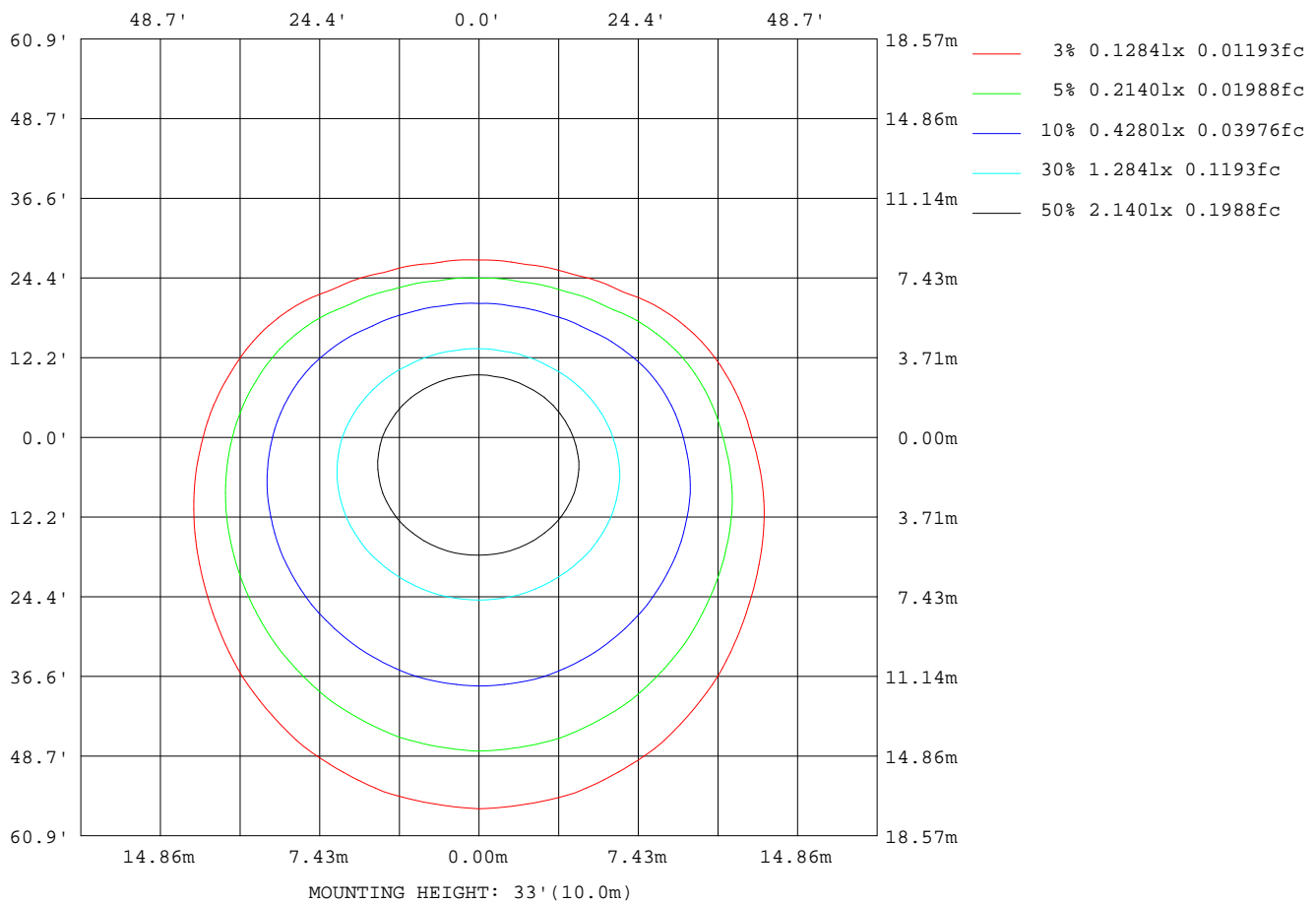
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

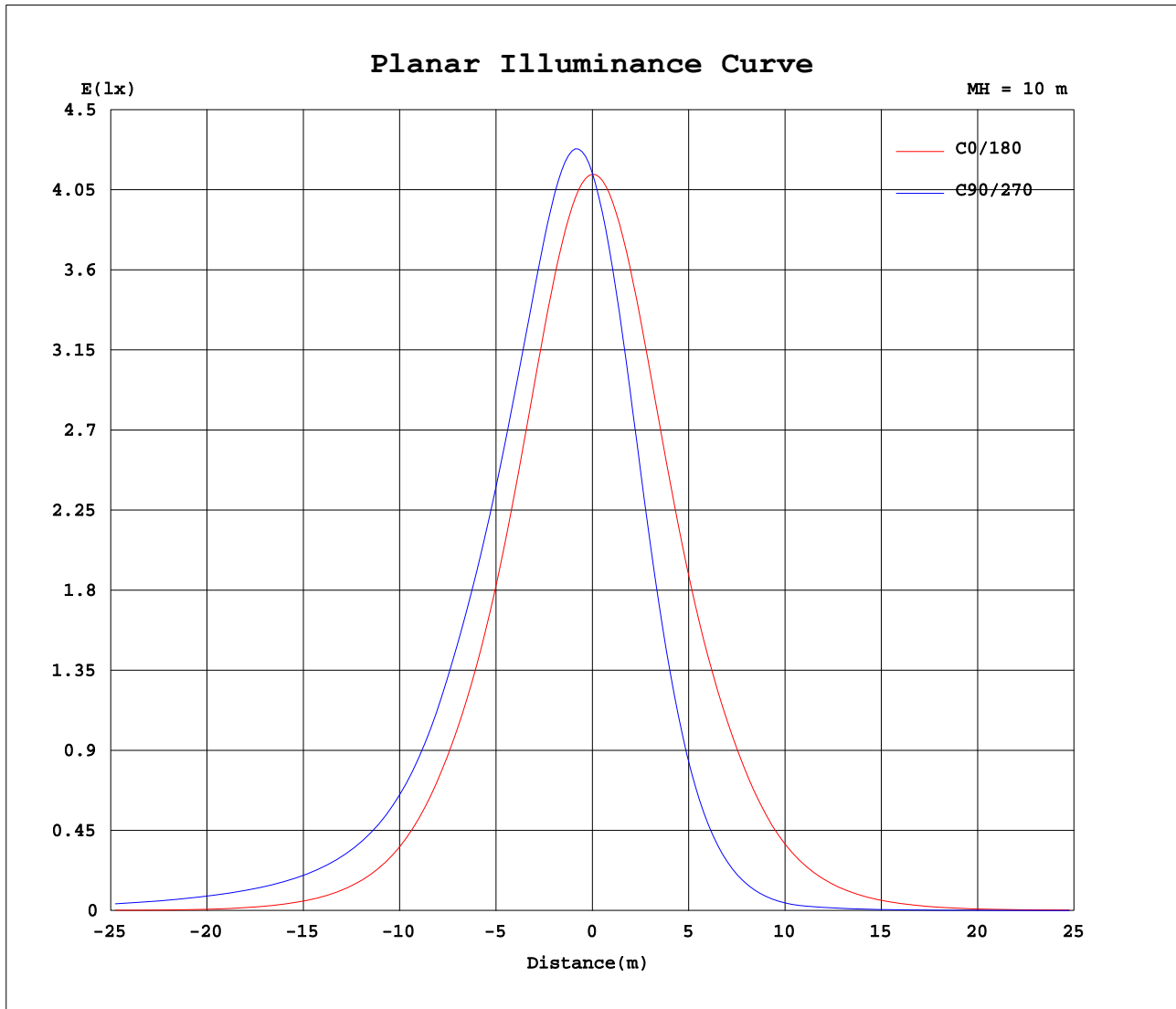
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Planar Illuminance Curve



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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	413.8	414.0	414.3	414.0	414.5	413.9	414.4	413.5	414.0	413.3
3.0	410.5	415.4	419.7	423.1	426.0	427.3	428.2	427.2	426.0	423.1
6.0	402.0	411.4	419.1	425.6	430.1	432.9	434.0	433.2	430.6	426.2
9.0	388.6	402.3	412.9	421.6	427.1	430.8	431.8	431.2	428.1	423.0
12.0	371.2	388.7	401.8	412.0	417.9	421.7	422.5	422.4	419.2	414.0
15.0	350.3	371.4	386.5	397.9	403.6	407.2	407.7	408.1	405.2	400.3
18.0	327.0	351.5	368.5	380.6	385.9	389.1	389.5	390.0	387.6	383.3
21.0	302.1	329.8	348.5	361.3	366.1	369.7	370.3	370.8	368.0	364.0
24.0	276.7	306.9	327.5	340.8	346.3	349.9	350.1	351.1	348.0	343.3
27.0	251.4	283.6	305.6	319.8	325.9	329.5	329.8	330.7	327.5	322.1
30.0	226.7	260.4	283.4	298.4	304.8	308.6	309.2	309.5	306.2	300.5
33.0	202.3	236.8	260.6	275.8	282.3	286.7	287.6	287.2	283.4	277.6
36.0	177.7	212.2	236.2	251.3	257.8	263.3	263.9	263.3	258.5	252.6
39.0	152.3	185.2	208.4	222.8	230.0	236.0	236.7	235.8	230.0	223.7
42.0	126.1	156.8	179.5	194.0	202.2	208.6	209.4	207.9	201.4	193.7
45.0	101.3	129.5	151.0	166.4	176.1	183.2	183.9	182.0	174.4	165.4
48.0	79.02	104.3	124.6	141.2	152.8	160.5	161.5	159.1	150.7	139.7
51.0	59.42	82.33	101.4	118.7	132.3	141.0	142.4	139.4	130.1	117.0
54.0	42.41	63.37	81.65	100.5	115.1	124.0	126.3	122.4	113.0	98.73
57.0	28.54	47.38	65.88	85.83	101.4	110.6	113.3	109.2	99.50	84.30
60.0	17.47	34.65	53.90	74.65	90.61	99.94	102.5	98.78	89.18	73.51
63.0	9.445	25.65	45.45	66.05	81.83	90.45	92.60	89.58	80.95	65.55
66.0	4.488	19.72	38.35	57.33	71.46	79.27	81.11	78.72	71.06	57.45
69.0	2.684	14.95	31.14	48.00	60.60	67.73	69.37	67.39	60.43	48.26
72.0	1.550	10.68	24.06	38.84	49.80	56.26	57.53	56.11	49.88	39.19
75.0	0.8159	6.960	17.19	29.90	39.07	44.66	45.60	44.59	39.35	30.28
78.0	0.3882	3.789	10.84	20.96	28.17	32.76	33.43	32.84	28.63	21.45
81.0	0.2365	1.574	5.559	12.46	17.54	20.86	21.22	21.08	18.09	12.96
84.0	0.1534	0.4113	1.887	5.126	7.601	9.523	9.613	9.845	8.245	5.635
87.0	0.0920	0.0698	0.1360	0.2346	0.1335	0.2499	0.2444	0.4864	0.4076	0.5320
90.0	0.0394	0.0350	0.0372	0.0306	0.0350	0.0328	0.0350	0.0328	0.0328	0.0306

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	413.5	413.0	414.0	414.3	414.0	414.5	414.4	413.9	414.0	413.5
3.0	419.7	415.4	411.9	407.2	403.4	398.9	396.6	393.7	393.6	393.1
6.0	420.0	412.4	404.8	395.3	387.1	378.4	372.9	367.4	366.9	366.6
9.0	414.6	404.3	392.9	378.7	366.2	352.9	344.0	335.8	334.4	334.6
12.0	404.2	391.6	376.8	358.2	341.3	323.3	310.7	299.7	297.5	298.3
15.0	389.6	375.0	354.1	334.2	312.9	290.2	274.1	260.9	258.1	259.2
18.0	372.0	355.6	334.6	307.7	282.3	255.5	236.6	221.9	218.3	220.1
21.0	352.2	334.2	310.1	279.9	250.5	220.7	199.7	183.9	179.9	182.2
24.0	331.1	311.4	284.8	251.7	219.2	187.2	164.9	148.6	144.6	146.9
27.0	309.1	288.2	259.5	224.3	189.2	155.9	132.9	117.0	112.4	115.4
30.0	286.6	264.8	234.6	197.8	161.1	127.3	104.1	89.49	85.23	87.95
33.0	263.6	240.9	210.0	172.6	135.4	101.8	79.55	66.32	62.58	64.98
36.0	238.5	215.8	185.2	148.2	111.5	79.52	58.93	47.28	44.34	46.12
39.0	209.9	187.6	158.9	124.3	90.22	60.50	42.10	32.52	30.16	31.56
42.0	179.7	158.2	131.6	100.9	71.15	44.27	28.77	21.29	19.55	20.51
45.0	150.6	130.2	105.8	79.26	54.42	31.22	18.57	13.26	12.19	12.69
48.0	123.9	104.6	82.66	60.17	39.96	20.88	11.26	8.440	8.420	8.179
51.0	100.5	82.28	62.44	43.53	27.90	12.94	6.668	6.316	6.302	6.139
54.0	80.80	63.22	45.16	29.80	18.21	7.195	4.816	4.577	4.547	4.454
57.0	65.17	47.21	30.81	18.79	10.82	3.776	3.477	3.294	3.265	3.217
60.0	53.51	34.76	19.49	10.46	5.628	2.692	2.544	2.414	2.385	2.370
63.0	45.59	26.19	11.32	4.862	2.562	1.976	1.911	1.808	1.795	1.797
66.0	39.12	20.86	6.423	1.910	1.583	1.488	1.459	1.387	1.381	1.383
69.0	31.86	15.89	4.189	1.154	1.158	1.142	1.118	1.076	1.064	1.072
72.0	24.69	11.37	2.621	0.7794	0.8670	0.8732	0.8694	0.8338	0.8235	0.8250
75.0	17.73	7.397	1.488	0.5581	0.6400	0.6696	0.6729	0.6477	0.6467	0.6389
78.0	11.30	4.066	0.7349	0.4114	0.4718	0.5033	0.5155	0.5033	0.5069	0.4923
81.0	5.890	1.688	0.2856	0.2889	0.3428	0.3677	0.3909	0.3873	0.3932	0.3894
84.0	2.110	0.4004	0.1462	0.1971	0.2314	0.2714	0.2861	0.3020	0.3014	0.3042
87.0	0.2564	0.0611	0.0654	0.1118	0.1440	0.1904	0.2053	0.2298	0.2228	0.2298
90.0	0.0284	0.0284	0.0284	0.0525	0.0722	0.1137	0.1377	0.1684	0.1727	0.1727

G/C	300.0	315.0	330.0	345.0
0.0	414.0	413.3	413.5	413.0
3.0	395.4	397.5	401.6	405.2
6.0	371.2	376.1	384.4	392.3
9.0	341.8	349.9	362.6	374.8
12.0	308.0	319.6	336.8	353.3
15.0	271.0	285.8	307.7	328.4
18.0	233.3	250.8	276.5	301.4
21.0	196.2	215.7	244.4	273.1

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-05-17

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	161.3	182.1	212.9	244.9
27.0	129.4	150.8	182.9	217.4
30.0	100.9	122.4	155.0	191.0
33.0	76.57	97.24	129.5	165.9
36.0	56.31	75.31	106.1	142.0
39.0	39.87	56.53	85.23	119.0
42.0	26.94	41.11	66.89	96.83
45.0	17.14	28.60	51.02	76.17
48.0	10.22	18.75	37.24	57.81
51.0	6.187	11.28	25.80	41.76
54.0	4.558	6.030	16.61	28.52
57.0	3.309	3.480	9.650	17.96
60.0	2.440	2.530	4.829	9.924
63.0	1.848	1.884	2.169	4.516
66.0	1.424	1.435	1.496	1.698
69.0	1.103	1.109	1.103	1.064
72.0	0.8518	0.8427	0.8212	0.7421
75.0	0.6510	0.6368	0.6226	0.5493
78.0	0.4958	0.4749	0.4652	0.4070
81.0	0.3691	0.3501	0.3340	0.2867
84.0	0.2773	0.2561	0.2248	0.1905
87.0	0.1987	0.1817	0.1397	0.1183
90.0	0.1487	0.1246	0.0875	0.0568

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-05-17

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: