

LED Downlight SENSE Series S100R2-13W-940-N



Light Output Ratio:	100.0%	
Luminaire Power:	14.32 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	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

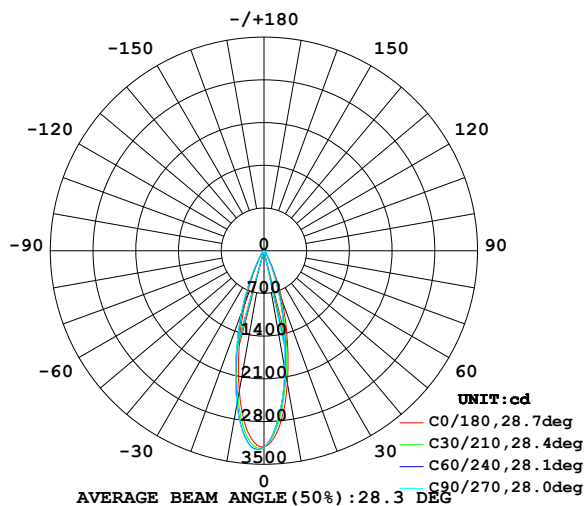
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

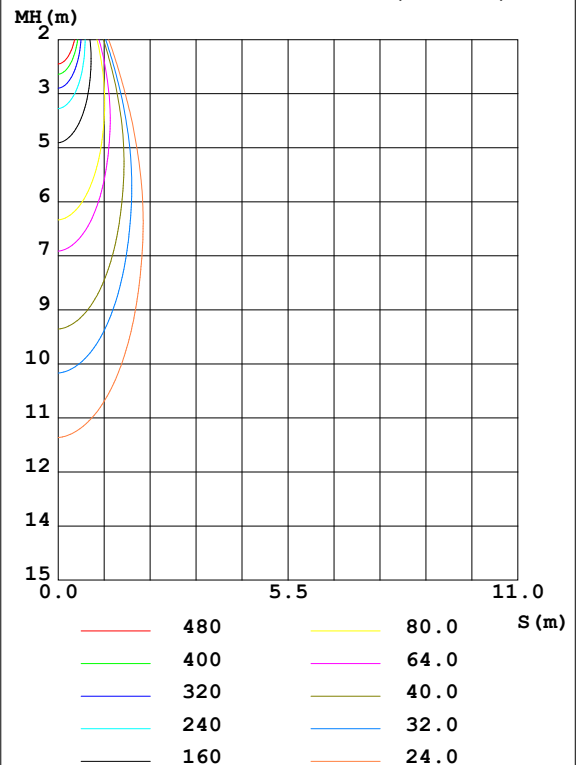
Test:U:220.7V I:0.0709A P:14.32W PF:0.9154 Lamp Flux:974.948x1 lm		
NAME: S100R2-13W-940-N	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 108mm*H126mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.08 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	3268	S/MH (C0/180)	0.49
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.53
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	974.95	η UP, DN (C0-180)	0.0, 44.3
NOMINAL FLUX (lm)	974.948	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 55.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



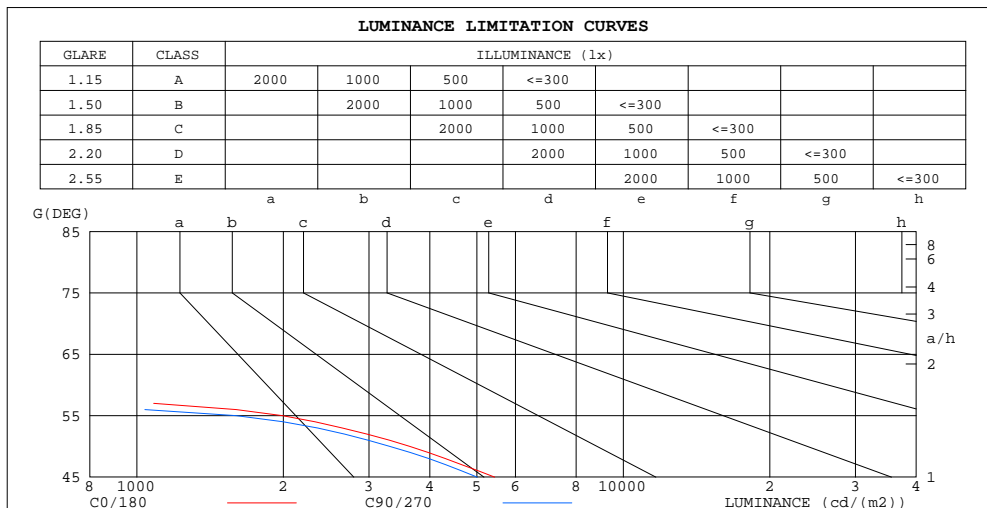
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Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
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Remarks:

**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	2208	2042	1972	2107	2340	2491	2561	2452	0- 10	259.5	259.5	26.6,26.6
20	868.6	727.1	663.5	739.4	911.0	1030	1089	1035	10- 20	413.9	673.4	69.1,69.1
30	183.5	147.2	132.3	144.9	181.7	214.3	238.5	229.0	20- 30	204.0	877.3	90,90
40	53.53	49.46	47.88	46.53	49.67	54.63	61.49	61.34	30- 40	60.87	938.2	96.2,96.2
50	21.42	19.97	19.49	18.08	18.09	20.38	24.95	25.25	40- 50	27.19	965.4	99,99
60	1.434	1.426	1.246	1.085	1.069	1.221	1.312	1.356	50- 60	8.759	974.2	99.9,99.9
70	0.2673	0.2423	0.2345	0.2379	0.2116	0.2452	0.2794	0.2956	60- 70	0.6358	974.8	100,100
80	0.0417	0.0350	0.0415	0.0350	0.0328	0.0416	0.0350	0.0504	70- 80	0.1156	974.9	100,100
90	0.0372	0.0372	0.0372	0.0372	0.0262	0.0284	0.0306	0.0328	80- 90	0.0384	974.9	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		



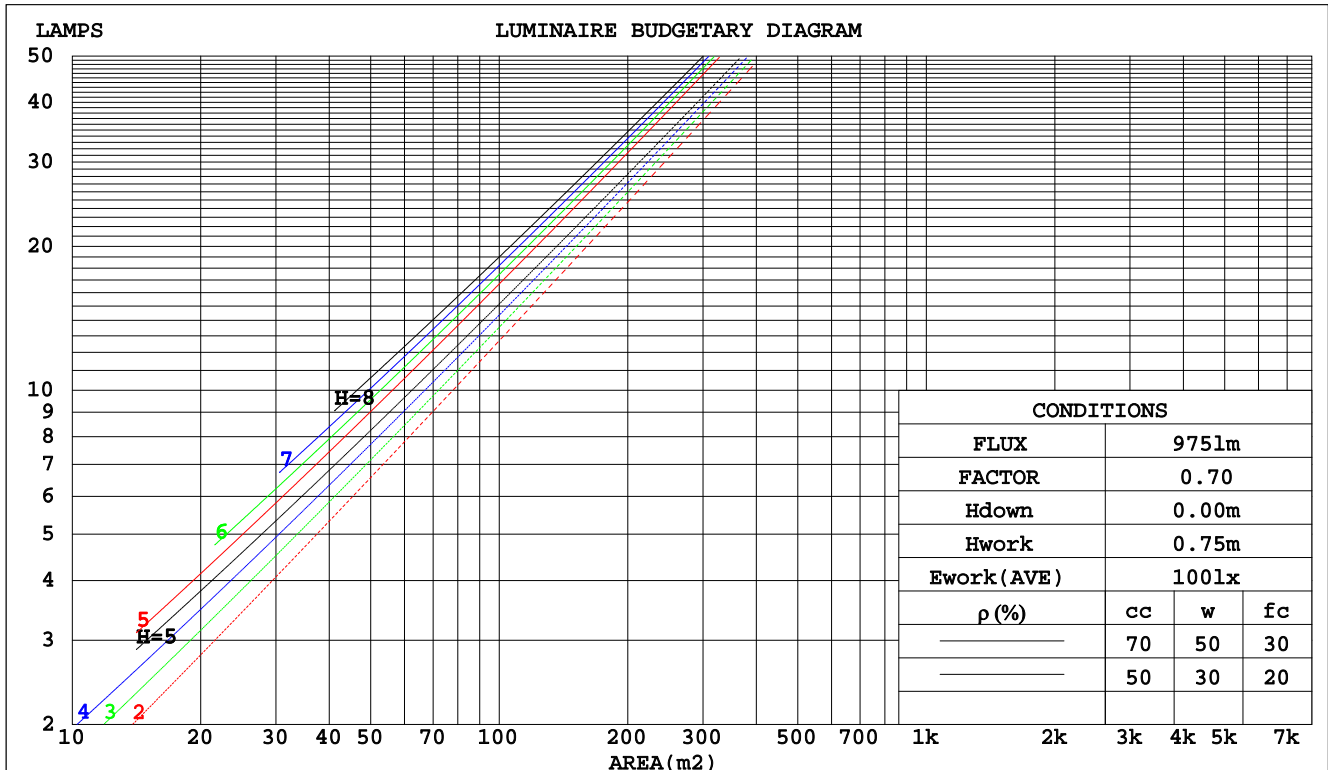
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0709A P:14.32W PF:0.9154 Lamp Flux:974.948x1 lm		
NAME: S100R2-13W-940-N	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	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.94	.93	.92
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.88
4.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.91	.89	.86	.90	.87	.85	.84
5.0	.92	.88	.84	.91	.87	.84	.90	.86	.83	.88	.85	.82	.87	.84	.82	.81
6.0	.88	.84	.80	.88	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.77
7.0	.85	.80	.77	.84	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.76	.74
8.0	.82	.77	.74	.81	.77	.74	.80	.76	.73	.79	.76	.73	.78	.75	.73	.72
9.0	.79	.74	.71	.78	.74	.71	.77	.74	.71	.77	.73	.71	.76	.73	.70	.69
10.0	.76	.72	.69	.76	.71	.68	.75	.71	.68	.74	.71	.68	.74	.70	.68	.67



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WEC AND CCEC

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SPEC.:4000K	DIM.: ϕ 108mm*H126mm	
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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	.148	.084	.027	.142	.081	.026	.129	.074	.024	.118	.068	.022	.107	.062	.020	
2.0	.139	.076	.023	.134	.074	.023	.123	.069	.021	.114	.064	.020	.105	.059	.019	
3.0	.131	.070	.021	.126	.068	.020	.118	.064	.019	.109	.060	.018	.102	.057	.017	
4.0	.123	.064	.019	.119	.063	.018	.112	.059	.018	.105	.057	.017	.099	.054	.016	
5.0	.117	.060	.017	.113	.058	.017	.107	.056	.016	.101	.053	.016	.096	.051	.015	
6.0	.111	.056	.016	.108	.055	.016	.103	.053	.015	.097	.051	.015	.093	.049	.014	
7.0	.106	.052	.015	.103	.051	.015	.098	.050	.014	.094	.048	.014	.090	.047	.014	
8.0	.101	.049	.014	.099	.049	.014	.095	.047	.013	.091	.046	.013	.087	.045	.013	
9.0	.097	.047	.013	.095	.046	.013	.091	.045	.013	.087	.044	.013	.084	.043	.012	
10.0	.093	.044	.012	.091	.044	.012	.088	.043	.012	.084	.042	.012	.081	.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	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.074	.056	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006	
8.0	.094	.062	.040	.081	.054	.034	.056	.038	.024	.033	.022	.015	.011	.007	.005	
9.0	.089	.056	.034	.076	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.030	.072	.045	.026	.050	.032	.019	.029	.019	.011	.009	.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:0.0709A P:14.32W PF:0.9154 Lamp Flux:974.948x1 lm										
NAME: S100R2-13W-940-N					TYPE:Downlight			SERIAL No.:		
SPEC.:4000K					DIM.: $\phi 108\text{mm} \times H126\text{mm}$					
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	9.4	10.1	9.6	10.3	10.4	8.8	9.5	9.0	9.7	9.8
3H	9.2	9.9	9.5	10.1	10.3	8.6	9.3	8.9	9.5	9.7
4H	9.1	9.8	9.4	10.0	10.2	8.6	9.2	8.8	9.4	9.6
6H	9.1	9.7	9.3	9.9	10.1	8.5	9.1	8.8	9.3	9.6
8H	9.0	9.6	9.3	9.9	10.1	8.4	9.0	8.7	9.3	9.5
12H	9.0	9.5	9.3	9.8	10.1	8.4	8.9	8.7	9.2	9.5
4H 2H	9.2	9.8	9.4	10.0	10.2	8.6	9.2	8.9	9.4	9.7
3H	9.0	9.6	9.3	9.8	10.1	8.4	9.0	8.7	9.2	9.5
4H	8.9	9.4	9.2	9.7	10.0	8.3	8.8	8.7	9.1	9.4
6H	8.8	9.3	9.2	9.6	9.9	8.2	8.7	8.6	9.0	9.3
8H	8.8	9.2	9.1	9.5	9.9	8.2	8.6	8.6	8.9	9.3
12H	8.7	9.1	9.1	9.5	9.8	8.1	8.5	8.5	8.9	9.3
8H 4H	8.8	9.2	9.1	9.5	9.9	8.2	8.6	8.6	8.9	9.3
6H	8.6	9.0	9.1	9.4	9.8	8.1	8.4	8.5	8.8	9.2
8H	8.6	8.9	9.0	9.3	9.7	8.0	8.3	8.4	8.7	9.2
12H	8.5	8.8	9.0	9.2	9.7	7.9	8.2	8.4	8.6	9.1
12H 4H	8.7	9.1	9.1	9.5	9.8	8.1	8.5	8.5	8.9	9.3
6H	8.6	8.9	9.0	9.3	9.7	8.0	8.3	8.4	8.7	9.2
8H	8.5	8.8	9.0	9.2	9.7	7.9	8.2	8.4	8.6	9.1
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / -10.1					+ 2.4 / -13.2				
1.5H	+ 3.3 / - 5.0					+ 2.6 / - 5.8				
2.0H	+ 5.3 / -15.0					+ 5.2 / -14.9				

CIE Pub.117 Corrected 974.9 lm Total Lamp Luminous Flux. ($8\log(F/F_0) = -0.1$)

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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:0.0709A P:14.32W PF:0.9154 Lamp Flux:974.948x1 lm		
NAME: S100R2-13W-940-N	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: ϕ 108mm*H126mm	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	79	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
1.00	101	95	92	100	95	92	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	104	100	98	93
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	104	106	104	102	96
3.00	112	109	107	111	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	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):

954.3 lm

%lum = 97.9%

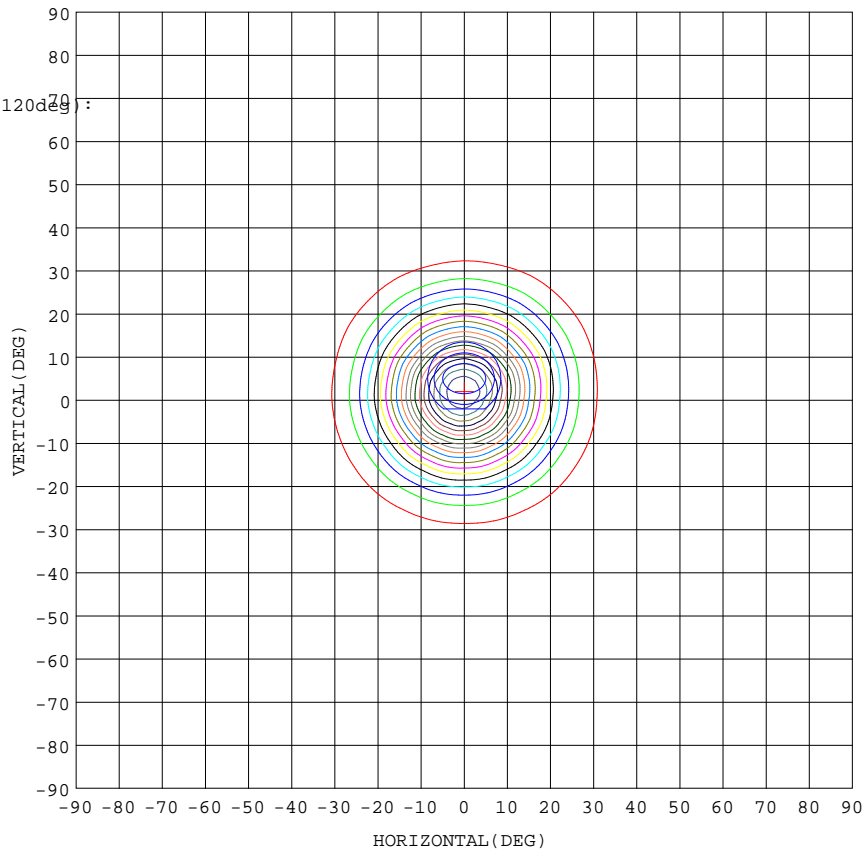
%lamp = 97.9%

Conical surface Flux(120deg):

974.16 lm

%lum = 99.9%

%lamp = 99.9%



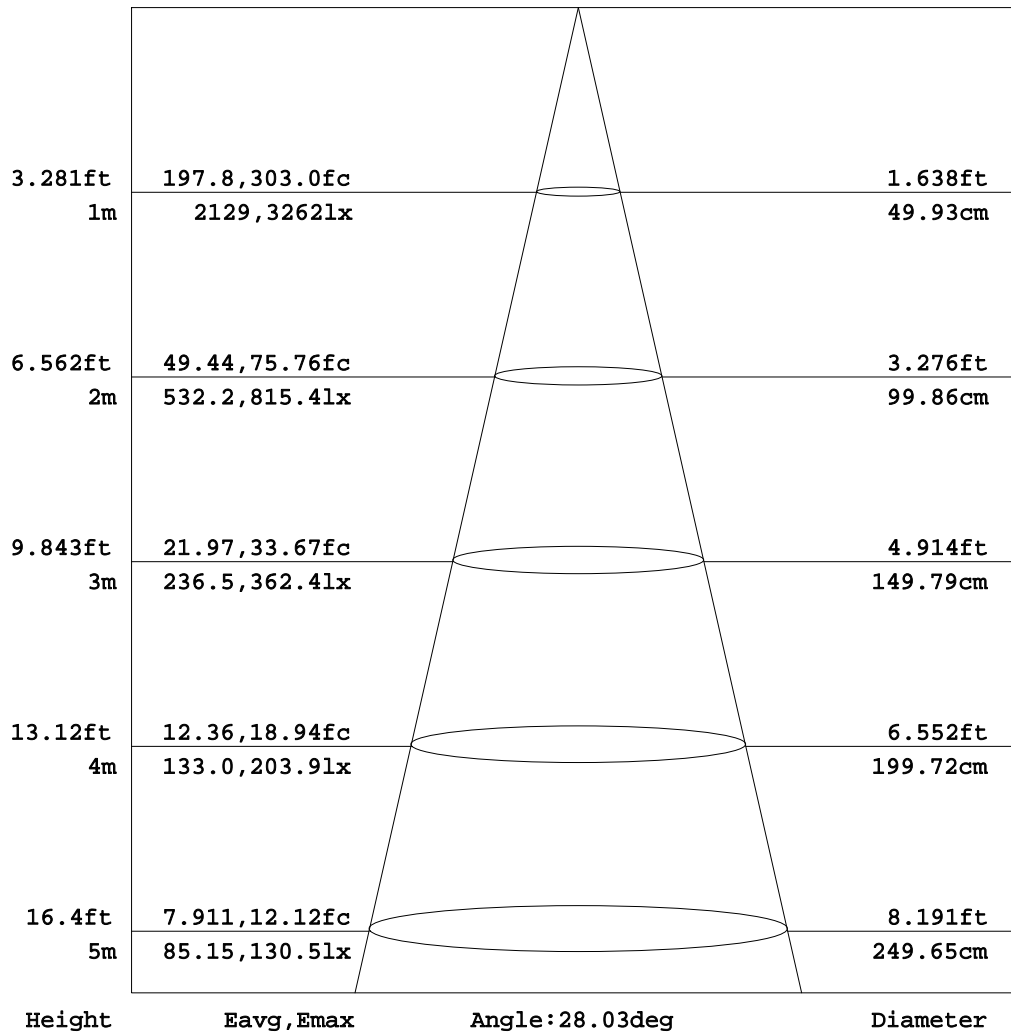
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AAI Figure

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Flux out:480.1 lm



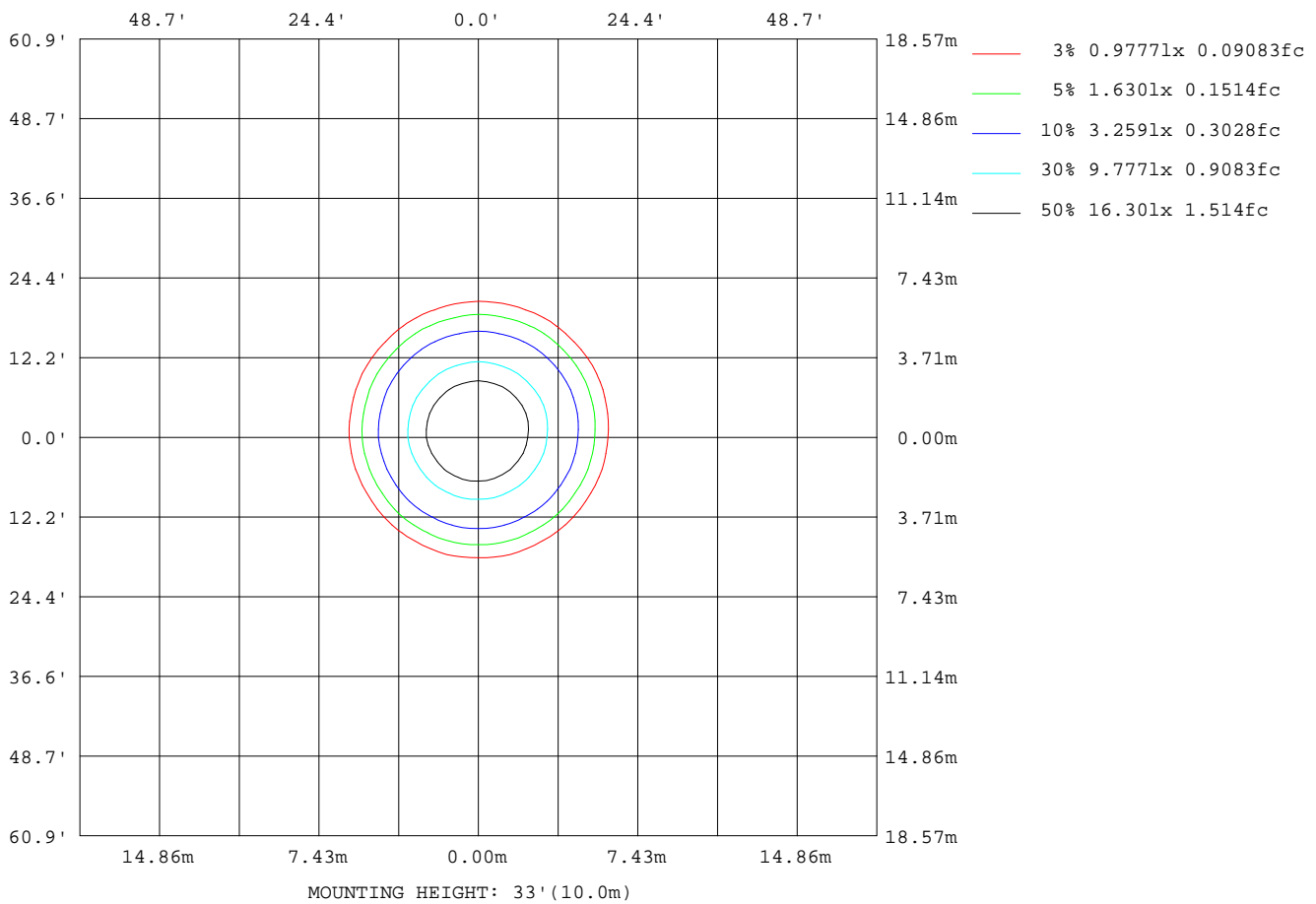
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

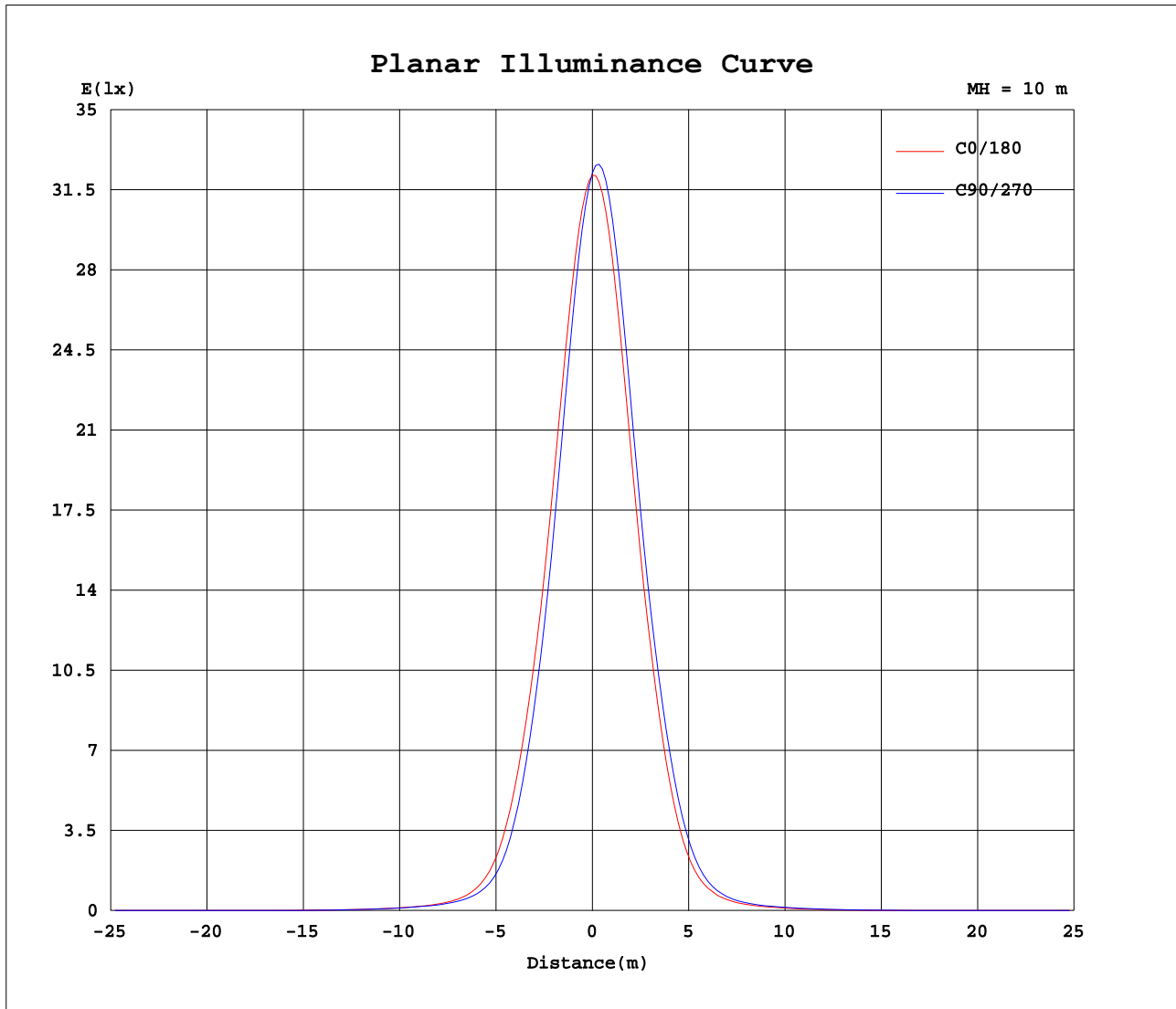
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Planar Illuminance Curve



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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	3213	3217	3216	3222	3219	3226	3224	3231	3227	3233
3.0	3079	3059	3024	3014	2990	2996	2990	3014	3022	3058
6.0	2775	2736	2675	2652	2610	2615	2606	2641	2657	2716
9.0	2359	2312	2231	2203	2146	2152	2134	2177	2195	2270
12.0	1901	1848	1764	1729	1672	1671	1655	1693	1713	1787
15.0	1465	1416	1339	1308	1253	1249	1234	1269	1283	1351
18.0	1092	1046	975.5	943.1	895.3	888.7	873.5	898.6	911.2	966.0
21.0	762.4	720.0	659.3	630.2	590.3	583.2	569.8	586.7	596.2	638.3
24.0	496.8	459.0	414.4	391.7	363.6	357.4	347.6	358.2	365.0	393.6
27.0	301.0	278.8	250.1	235.9	218.6	214.6	208.2	214.3	217.6	234.2
30.0	183.5	170.8	154.8	147.2	137.7	137.6	132.3	137.0	136.6	144.9
33.0	116.9	109.5	101.9	97.77	93.62	92.34	90.89	91.58	91.95	95.20
36.0	80.07	76.24	72.36	70.82	68.64	68.00	67.04	66.95	66.21	67.17
39.0	59.28	56.87	54.56	53.91	52.48	52.29	51.53	51.44	50.41	50.49
42.0	45.50	44.13	43.27	42.88	42.88	43.11	42.92	42.40	41.18	40.55
45.0	35.21	33.99	33.13	33.26	32.72	32.84	32.41	32.21	31.07	30.75
48.0	26.38	25.55	24.85	24.93	24.53	24.70	24.41	24.13	23.16	22.75
51.0	19.03	18.40	17.70	17.58	17.18	17.35	17.20	16.99	16.19	15.86
54.0	12.50	12.11	11.44	11.45	10.90	10.94	10.75	10.62	9.850	9.768
57.0	5.398	5.079	4.192	3.903	3.299	3.014	2.425	2.644	2.309	2.920
60.0	1.434	1.496	1.459	1.426	1.349	1.319	1.246	1.201	1.130	1.085
63.0	0.8874	0.9191	0.8940	0.8864	0.8501	0.8406	0.8018	0.7730	0.7360	0.7250
66.0	0.5434	0.5656	0.5369	0.5350	0.5062	0.5241	0.5017	0.4979	0.4732	0.4761
69.0	0.3242	0.3231	0.3133	0.3012	0.2914	0.2903	0.2892	0.2838	0.2870	0.2860
72.0	0.1798	0.1659	0.1711	0.1506	0.1601	0.1462	0.1622	0.1484	0.1644	0.1571
75.0	0.1052	0.0786	0.0943	0.0764	0.0964	0.0764	0.0943	0.0699	0.0878	0.0764
78.0	0.0636	0.0393	0.0548	0.0372	0.0526	0.0372	0.0526	0.0372	0.0504	0.0350
81.0	0.0394	0.0350	0.0372	0.0350	0.0372	0.0350	0.0394	0.0372	0.0372	0.0350
84.0	0.0372	0.0350	0.0350	0.0350	0.0372	0.0372	0.0372	0.0372	0.0372	0.0350
87.0	0.0372	0.0372	0.0350	0.0350	0.0372	0.0372	0.0372	0.0372	0.0372	0.0350
90.0	0.0372	0.0372	0.0350	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	3232	3234	3217	3216	3222	3219	3226	3224	3231	3233
3.0	3079	3122	3145	3171	3205	3223	3244	3250	3253	3243
6.0	2754	2826	2888	2927	2987	3014	3053	3057	3066	3042
9.0	2315	2406	2490	2536	2611	2638	2691	2689	2706	2674
12.0	1836	1931	2024	2072	2151	2177	2230	2227	2247	2214
15.0	1392	1479	1566	1609	1683	1705	1753	1747	1770	1740
18.0	1004	1081	1160	1201	1269	1288	1332	1326	1347	1324
21.0	669.9	730.4	797.4	831.9	889.2	909.7	949.1	949.6	968.3	953.4
24.0	415.4	457.5	506.5	537.3	576.4	592.8	625.6	627.8	646.0	636.1
27.0	247.1	272.9	303.3	320.6	349.6	361.1	382.7	385.9	400.1	394.4
30.0	151.1	164.7	181.7	191.2	207.9	214.3	227.0	229.0	238.5	236.0
33.0	98.28	104.5	113.8	119.5	130.5	132.2	141.4	140.8	146.6	145.8
36.0	68.03	71.15	76.16	78.93	84.04	86.73	91.08	92.66	95.91	95.61
39.0	50.29	51.88	54.61	55.77	58.77	61.30	64.00	65.78	68.12	68.35
42.0	40.00	40.66	41.95	42.57	44.26	45.49	47.87	49.25	51.11	51.11
45.0	29.95	30.32	31.45	31.82	33.58	34.82	37.30	38.86	41.10	41.35
48.0	21.95	22.21	23.05	23.35	24.59	25.55	27.56	28.92	30.66	30.99
51.0	15.06	15.15	15.74	16.01	17.14	17.95	19.60	20.72	22.28	22.57
54.0	9.303	9.410	9.772	9.925	10.90	11.61	12.88	13.73	15.14	15.39
57.0	2.890	3.379	4.050	4.301	5.322	5.800	6.831	7.378	8.625	8.656
60.0	1.029	1.029	1.069	1.086	1.172	1.221	1.298	1.291	1.312	1.300
63.0	0.6833	0.6726	0.6810	0.6788	0.7225	0.7424	0.7901	0.7950	0.8186	0.8255
66.0	0.4512	0.4389	0.4301	0.4335	0.4562	0.4686	0.5021	0.5080	0.5305	0.5342
69.0	0.2826	0.2620	0.2575	0.2693	0.2728	0.2912	0.3077	0.3262	0.3296	0.3372
72.0	0.1622	0.1353	0.1330	0.1534	0.1461	0.1687	0.1745	0.1994	0.1985	0.2081
75.0	0.0942	0.0721	0.0677	0.0920	0.0742	0.0964	0.0895	0.1183	0.1025	0.1227
78.0	0.0548	0.0350	0.0328	0.0525	0.0349	0.0570	0.0458	0.0701	0.0545	0.0766
81.0	0.0415	0.0350	0.0328	0.0350	0.0306	0.0329	0.0328	0.0351	0.0350	0.0416
84.0	0.0372	0.0350	0.0284	0.0350	0.0306	0.0328	0.0327	0.0350	0.0350	0.0394
87.0	0.0350	0.0372	0.0262	0.0306	0.0262	0.0328	0.0262	0.0350	0.0306	0.0372
90.0	0.0350	0.0372	0.0262	0.0262	0.0262	0.0284	0.0284	0.0306	0.0306	0.0306

G/C	300.0	315.0	330.0	345.0
0.0	3227	3233	3232	3234
3.0	3232	3204	3182	3144
6.0	3028	2975	2940	2870
9.0	2663	2597	2557	2468
12.0	2207	2142	2101	2009
15.0	1738	1680	1648	1561
18.0	1328	1279	1253	1178
21.0	956.8	919.5	896.8	834.2

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	640.9	612.4	594.9	550.6
27.0	398.9	380.3	368.5	336.1
30.0	239.5	229.0	222.4	203.4
33.0	148.2	142.2	140.8	128.1
36.0	96.69	93.97	91.67	86.05
39.0	68.96	67.49	65.93	62.54
42.0	51.60	50.56	49.77	47.75
45.0	41.79	40.96	39.98	37.54
48.0	31.41	30.65	29.94	28.23
51.0	23.05	22.62	22.16	20.65
54.0	15.77	15.33	15.08	13.85
57.0	8.903	8.425	8.245	6.913
60.0	1.353	1.356	1.416	1.433
63.0	0.8666	0.8670	0.8906	0.8956
66.0	0.5698	0.5605	0.5763	0.5605
69.0	0.3492	0.3503	0.3470	0.3416
72.0	0.2007	0.2081	0.1919	0.1972
75.0	0.1026	0.1161	0.0938	0.1095
78.0	0.0567	0.0701	0.0458	0.0701
81.0	0.0415	0.0416	0.0372	0.0394
84.0	0.0416	0.0372	0.0372	0.0394
87.0	0.0306	0.0350	0.0328	0.0372
90.0	0.0306	0.0328	0.0328	0.0328

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: