

LED Tracklight FOCUS S-28W-940-25D



Light Output Ratio:	100.0%	
Luminaire Power:	27.3 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

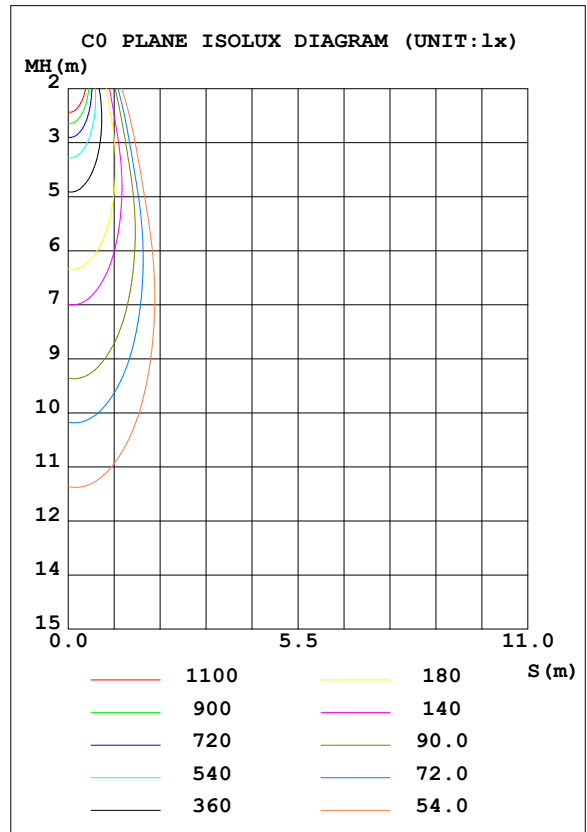
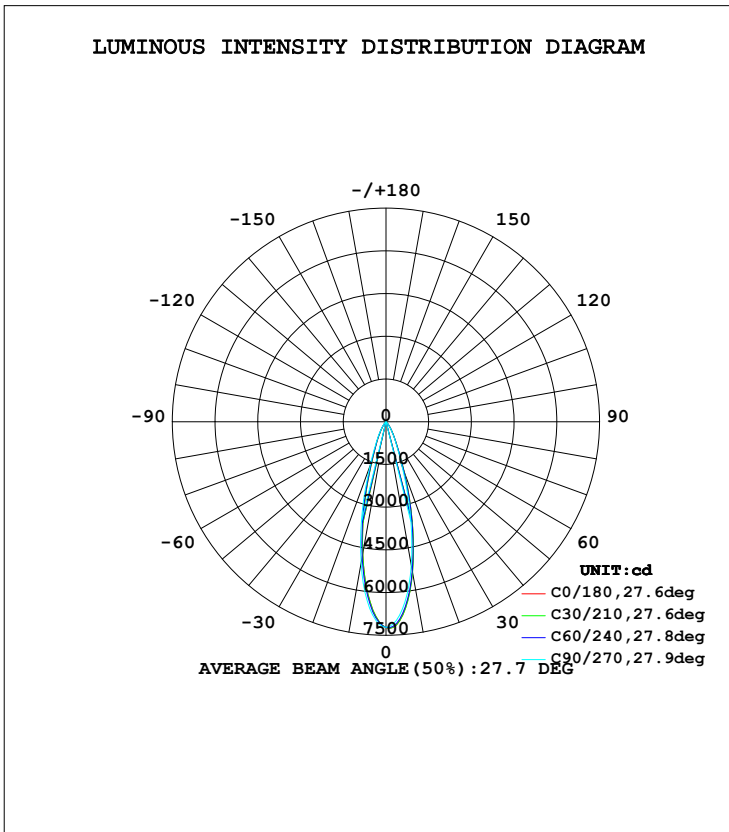
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-26

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:0.1315A P:27.30W PF:0.9409 Lamp Flux:2081.25x1 lm		
NAME: FOCUS S-28W-940-25D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.24 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	7260	S/MH (C0/180)	0.44
NOMINAL POWER (W)	28.0	LOR (%)	100.0	S/MH (C90/270)	0.47
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2081.3	η UP, DN (C0-180)	0.0, 49.6
NOMINAL FLUX (lm)	2081.25	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.4
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



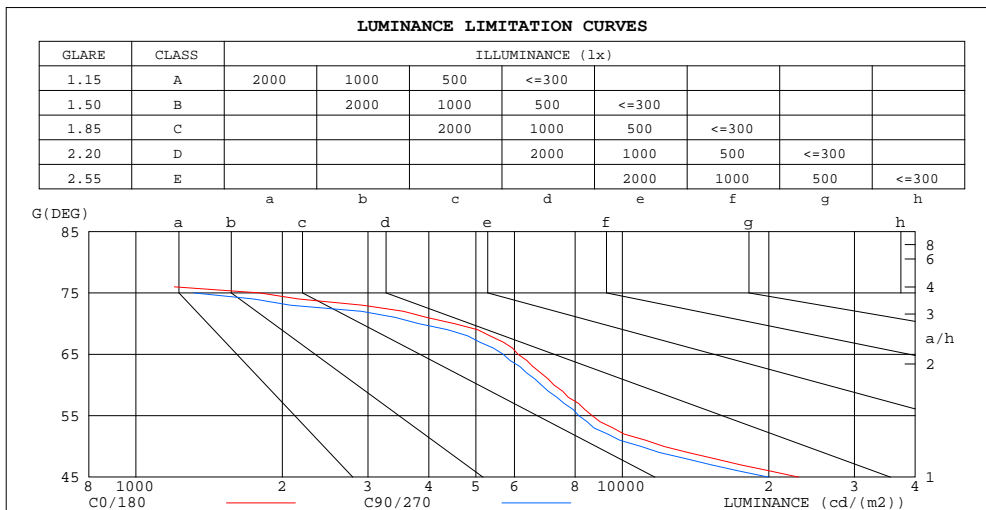
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	5358	5401	5119	4615	4714	4707	5042	5505	0- 10	578.2	578.2	27.8,27.8
20	1867	1885	1658	1366	1409	1386	1611	1973	10- 20	870.8	1449	69.6,69.6
30	497.0	499.1	460.0	383.7	399.9	402.0	453.2	521.6	20- 30	400.2	1849	88.8,88.8
40	138.0	139.9	119.5	89.61	97.40	99.28	115.7	144.9	30- 40	158.5	2008	96.5,96.5
50	30.08	30.51	27.00	22.83	24.14	24.13	26.47	31.32	40- 50	45.38	2053	98.6,98.6
60	13.91	14.14	13.11	12.16	12.85	12.97	13.38	14.50	50- 60	16.70	2070	99.4,99.4
70	5.942	5.915	5.018	4.462	4.942	4.770	5.296	6.407	60- 70	9.307	2079	99.9,99.9
80	0.4202	0.4587	0.4378	0.3102	0.2882	0.2977	0.3100	0.3939	70- 80	1.952	2081	100,100
90	0.1050	0.1050	0.1181	0.1006	0.0656	0.0678	0.0656	0.0875	80- 90	0.2164	2081	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	679	719
80	629	655
75	1796	1315
70	4517	3814
65	6104	5686
60	7230	6818
55	8672	8140
50	12165	10919
45	23026	19973

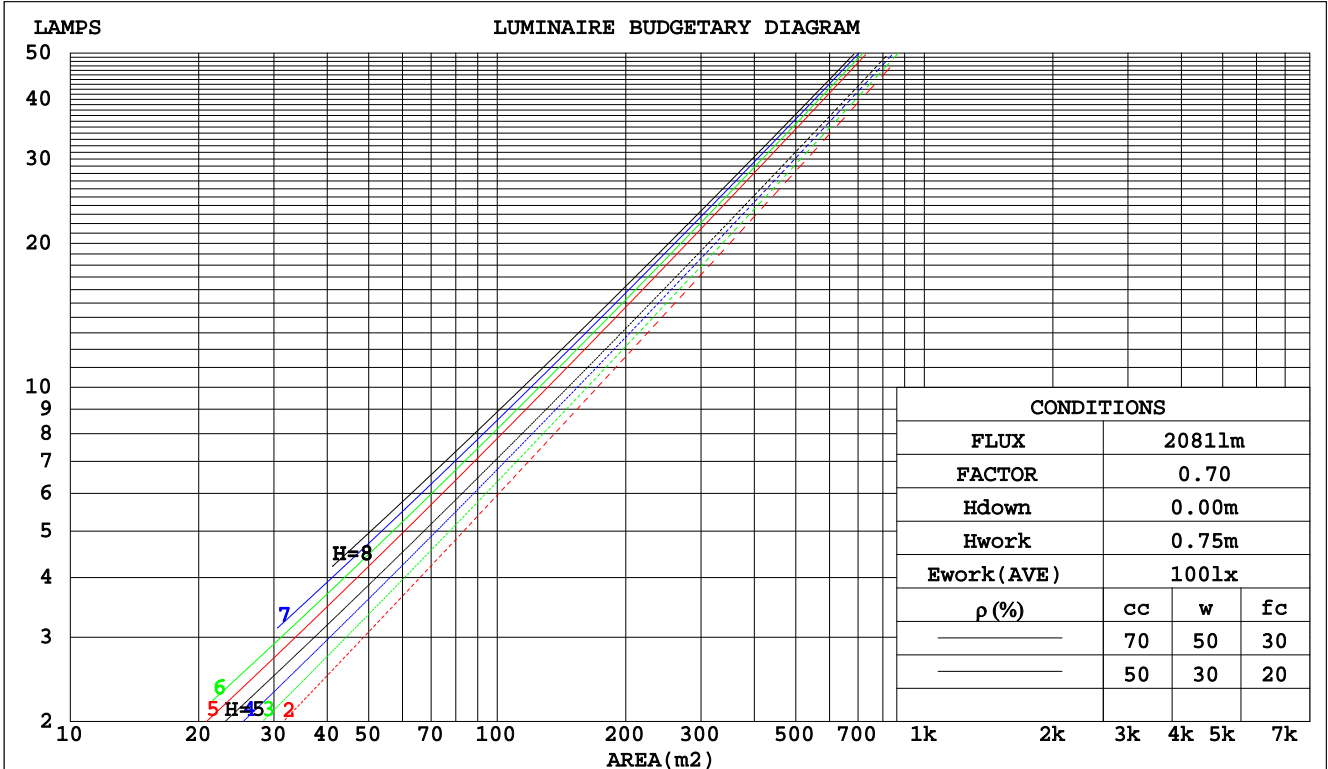
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Humidity:52%
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.1315A P:27.30W PF:0.9409 Lamp Flux:2081.25x1 lm		
NAME: FOCUS S-28W-940-25D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.01	.99	.97	.99	.97	.95	.96	.94	.93	.91
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	.88	.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	.75
8.0	.82	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.79	.75	.73	.72
9.0	.79	.74	.71	.78	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.71	.69
10.0	.76	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.68	.74	.71	.68	.67



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WEC AND CCEC

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ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.149	.085	.027	.142	.081	.026	.130	.074	.024	.118	.068	.022	.108	.062	.020	
2.0	.140	.076	.023	.134	.074	.023	.124	.069	.021	.114	.064	.020	.105	.060	.019	
3.0	.131	.070	.021	.126	.068	.020	.118	.064	.019	.110	.060	.018	.102	.057	.018	
4.0	.123	.064	.019	.120	.063	.018	.112	.060	.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	.102	.053	.015	.097	.051	.015	.093	.049	.014	
7.0	.105	.052	.015	.103	.051	.015	.098	.050	.014	.094	.048	.014	.089	.046	.014	
8.0	.101	.049	.014	.098	.048	.014	.094	.047	.013	.090	.046	.013	.086	.044	.013	
9.0	.096	.047	.013	.094	.046	.013	.091	.045	.013	.087	.044	.012	.084	.043	.012	
10.0	.092	.044	.012	.091	.044	.012	.087	.043	.012	.084	.042	.012	.081	.041	.012	

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ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.041	.028	.035	.024	.017	.011	.008	.006	
8.0	.094	.062	.040	.081	.053	.034	.056	.038	.024	.033	.022	.015	.011	.007	.005	
9.0	.088	.056	.034	.076	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.052	.030	.072	.045	.026	.050	.031	.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

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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	16.6	17.3	16.8	17.5	17.6	16.2	17.0	16.5	17.1	17.3
3H	16.6	17.3	16.8	17.5	17.7	16.2	16.9	16.5	17.1	17.3
4H	16.5	17.2	16.8	17.4	17.6	16.2	16.8	16.4	17.0	17.2
6H	16.4	17.1	16.7	17.3	17.5	16.1	16.7	16.4	16.9	17.2
8H	16.4	17.0	16.7	17.2	17.5	16.0	16.6	16.3	16.9	17.1
12H	16.4	16.9	16.7	17.2	17.5	16.0	16.6	16.3	16.8	17.1
4H 2H	16.5	17.1	16.7	17.3	17.5	16.1	16.8	16.4	17.0	17.2
3H	16.5	17.0	16.8	17.3	17.6	16.1	16.7	16.4	17.0	17.2
4H	16.4	16.9	16.8	17.2	17.5	16.1	16.6	16.4	16.9	17.2
6H	16.3	16.8	16.7	17.1	17.4	16.0	16.4	16.3	16.8	17.1
8H	16.3	16.7	16.7	17.0	17.4	15.9	16.3	16.3	16.7	17.1
12H	16.2	16.6	16.6	17.0	17.4	15.9	16.3	16.3	16.6	17.0
8H 4H	16.3	16.7	16.7	17.1	17.4	15.9	16.4	16.3	16.7	17.1
6H	16.2	16.5	16.6	16.9	17.3	15.8	16.2	16.2	16.6	17.0
8H	16.1	16.4	16.6	16.8	17.3	15.8	16.1	16.2	16.5	16.9
12H	16.1	16.3	16.5	16.8	17.2	15.7	16.0	16.2	16.4	16.9
12H 4H	16.2	16.6	16.6	17.0	17.4	15.9	16.3	16.3	16.6	17.0
6H	16.1	16.4	16.6	16.8	17.3	15.8	16.1	16.2	16.5	16.9
8H	16.1	16.3	16.5	16.8	17.2	15.7	16.0	16.2	16.4	16.9
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / - 5.3					+ 2.5 / - 5.3				
1.5H	+ 4.8 / - 4.6					+ 4.5 / - 4.4				
2.0H	+ 4.1 / - 2.0					+ 3.6 / - 2.0				

CIE Pub.117 Corrected 2081 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.5)

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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	89	83	80	89	83	80	88	83	80	76
0.80	97	91	88	96	91	87	95	90	87	84
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	103	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	106	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	112	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

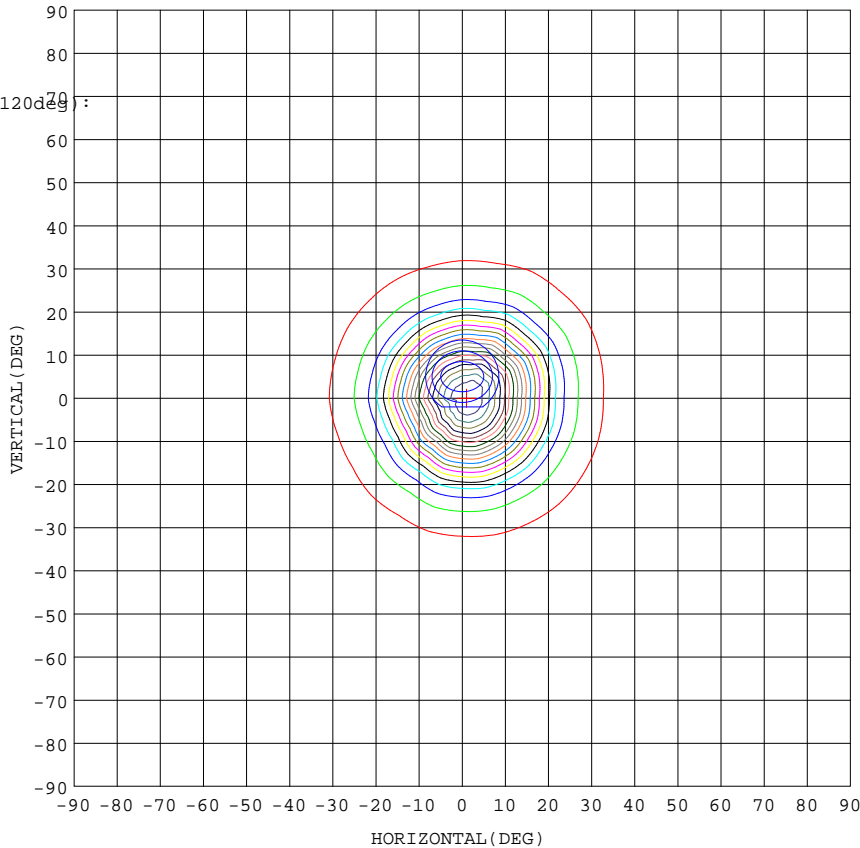
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Conical surface Flux(90deg):

2037.5 lm
%lum = 97.9%
%lamp = 97.9%

Conical surface Flux(120deg):

2069.8 lm
%lum = 99.4%
%lamp = 99.4%



1. AVG=6402, MIN=5433
2. AVG=6175, MIN=4586
3. AVG=5864, MIN=3690

Imax:7257(H1.0,V0.0)
(At:C=15.0,Gamma=1.0)
UNIT: cd

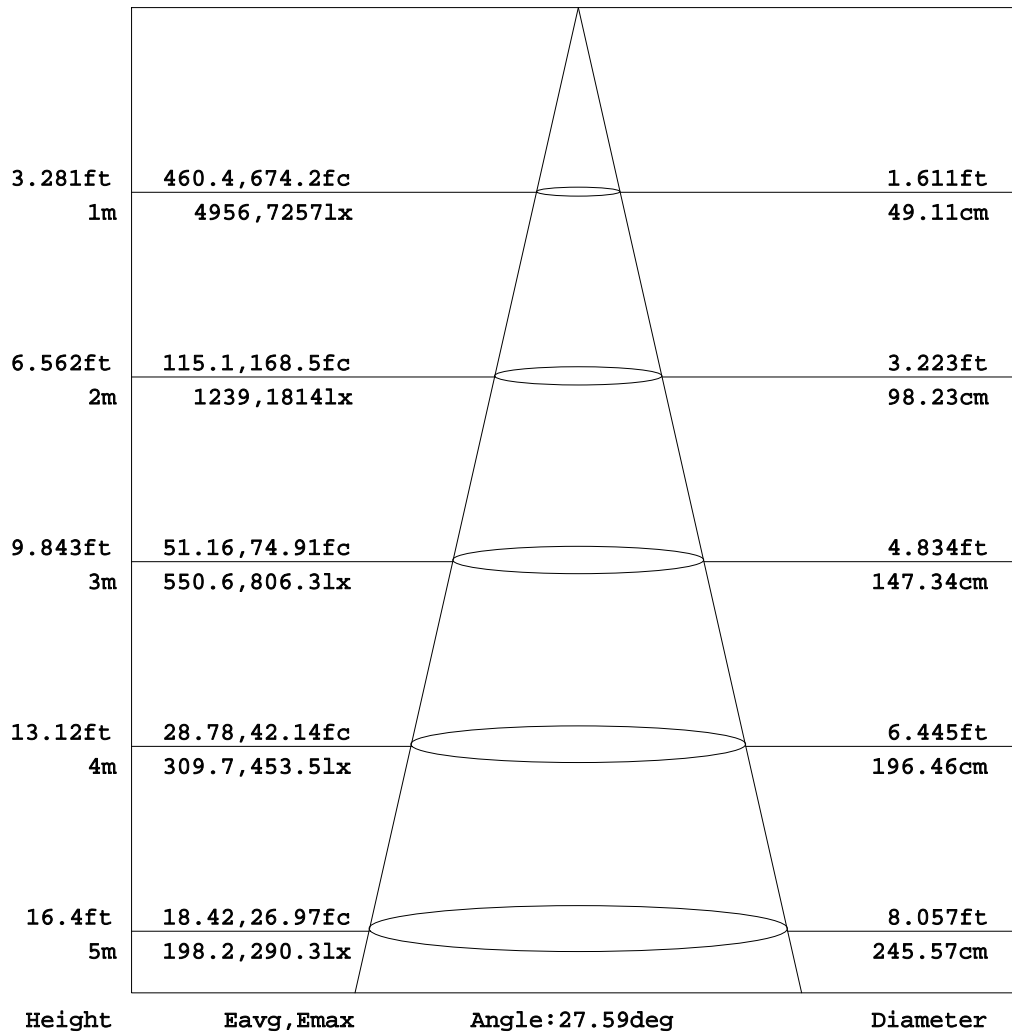
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AAI Figure

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Flux out:967.8 lm



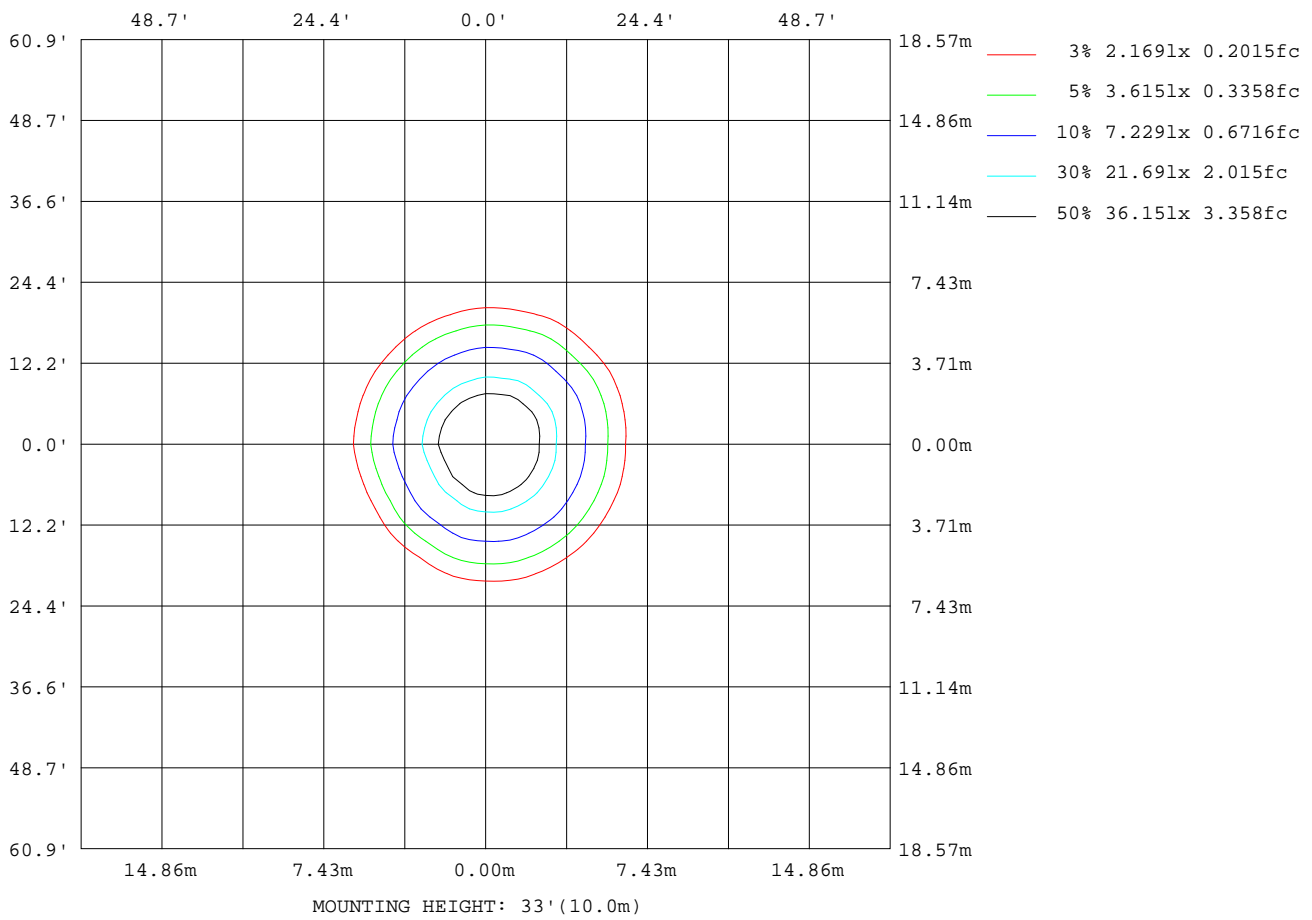
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

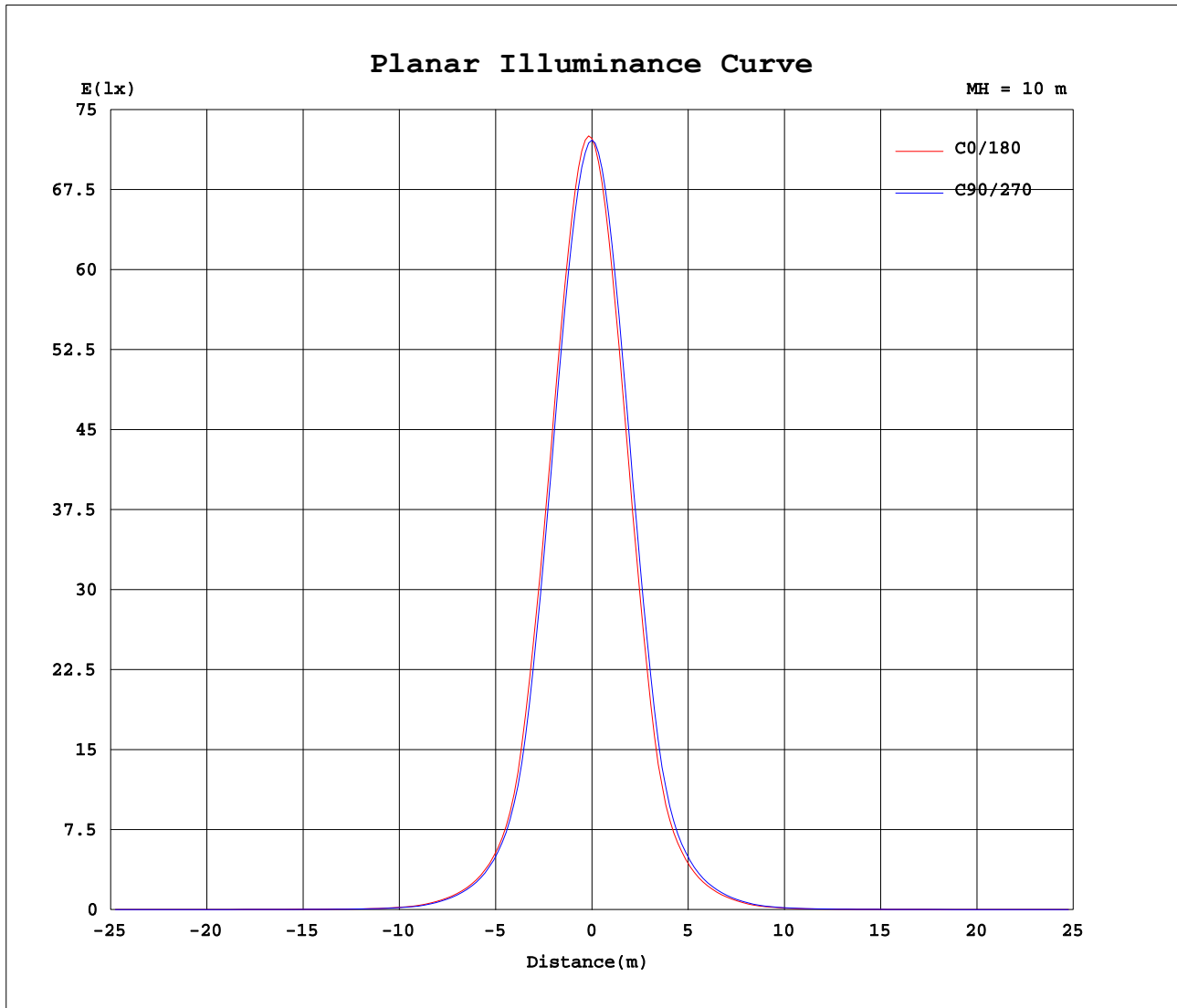
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Planar Illuminance Curve



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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	7229	7223	7230	7220	7222	7214	7214	7213	7195	7196
3.0	7141	7158	7140	7132	7090	7060	6987	6943	6774	6763
6.0	6578	6621	6587	6593	6522	6490	6366	6301	6019	6003
9.0	5699	5756	5720	5744	5661	5631	5469	5384	5011	4990
12.0	4621	4690	4651	4677	4586	4556	4377	4282	3885	3861
15.0	3516	3578	3536	3555	3469	3436	3265	3174	2805	2782
18.0	2496	2553	2506	2522	2434	2401	2241	2157	1834	1815
21.0	1585	1627	1599	1614	1551	1531	1431	1398	1191	1172
24.0	1028	1050	1033	1041	1013	1009	952.0	920.2	803.8	793.9
27.0	712.6	724.5	714.0	719.6	695.3	688.5	656.7	636.9	561.1	550.5
30.0	497.0	503.8	496.5	499.1	487.0	484.4	460.0	444.9	390.3	383.7
33.0	350.4	356.0	349.7	351.1	342.7	340.0	321.9	309.7	269.3	264.4
36.0	242.5	247.4	242.6	243.2	236.4	234.0	219.3	209.9	179.0	176.0
39.0	161.2	165.1	161.3	161.9	155.9	153.7	141.1	134.5	110.4	107.8
42.0	98.96	101.4	99.27	99.26	95.12	91.97	83.05	77.23	66.79	65.42
45.0	62.63	63.33	63.28	62.60	60.95	59.01	54.33	51.11	42.76	42.28
48.0	39.74	40.64	40.09	40.29	38.73	37.70	34.69	32.61	28.26	28.17
51.0	27.01	27.40	27.20	27.42	26.51	25.78	23.90	22.86	21.03	21.07
54.0	20.34	20.31	20.41	20.58	20.34	19.99	19.13	18.37	17.30	17.38
57.0	17.03	16.96	17.01	17.27	17.01	16.77	15.90	15.32	14.47	14.56
60.0	13.91	14.05	13.98	14.14	13.80	13.60	13.11	12.78	11.99	12.16
63.0	11.43	11.54	11.52	11.55	11.23	11.14	10.75	10.55	9.744	9.836
66.0	9.302	9.411	9.286	9.245	8.954	8.868	8.501	8.316	7.621	7.806
69.0	6.948	7.041	6.913	6.892	6.657	6.509	6.031	5.880	5.038	5.176
72.0	4.218	4.280	4.185	4.253	4.045	3.935	3.461	3.179	2.386	2.453
75.0	1.788	1.870	1.840	1.861	1.721	1.657	1.310	1.079	0.5830	0.6461
78.0	0.5145	0.5374	0.5517	0.5615	0.5626	0.5615	0.5275	0.4828	0.4268	0.3954
81.0	0.3722	0.3822	0.4028	0.4084	0.4159	0.4041	0.3919	0.3407	0.3021	0.2752
84.0	0.2606	0.2511	0.2738	0.2729	0.2729	0.2620	0.2738	0.2249	0.2080	0.1769
87.0	0.1752	0.1594	0.1818	0.1660	0.1862	0.1551	0.1818	0.1375	0.1358	0.1071
90.0	0.1050	0.1006	0.1050	0.1050	0.1093	0.1071	0.1181	0.0984	0.1006	0.1006
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	7108	7082	7229	7223	7230	7220	7214	7214	7214	7213
3.0	6602	6614	6841	6817	6845	6841	6887	6902	6973	7014
6.0	5779	5819	6084	6038	6086	6082	6168	6196	6325	6388
9.0	4721	4787	5078	5021	5077	5078	5187	5223	5393	5479
12.0	3599	3668	3962	3903	3959	3954	4067	4119	4297	4388
15.0	2539	2613	2884	2826	2877	2870	2983	3025	3198	3282
18.0	1629	1679	1896	1848	1890	1882	1980	2021	2181	2263
21.0	1058	1087	1206	1178	1201	1203	1263	1297	1414	1445
24.0	734.7	751.9	821.7	806.4	821.7	821.3	851.2	869.6	935.5	964.0
27.0	505.5	518.7	572.0	566.4	574.5	578.6	598.2	608.6	650.8	669.0
30.0	351.8	361.4	399.9	394.4	401.5	402.0	417.9	426.6	453.2	466.6
33.0	241.1	248.8	277.5	273.9	278.4	278.8	290.6	296.7	316.5	326.3
36.0	158.6	165.3	187.3	184.0	188.0	187.9	196.0	199.9	214.7	221.8
39.0	95.77	100.2	116.5	114.7	117.3	118.2	125.1	126.8	138.0	142.9
42.0	60.22	61.85	69.64	69.27	71.05	71.83	74.41	75.66	80.60	85.02
45.0	38.55	40.23	45.46	44.86	46.21	46.32	48.20	48.93	52.98	55.37
48.0	26.55	27.54	30.13	29.69	30.30	30.32	31.36	31.66	33.75	35.20
51.0	20.17	20.77	22.38	21.99	22.26	22.27	22.81	22.87	23.51	24.02
54.0	17.01	17.50	18.36	18.03	18.23	18.27	18.48	18.50	18.89	19.09
57.0	14.08	14.47	15.40	15.22	15.53	15.51	15.71	15.74	15.97	16.02
60.0	11.77	12.06	12.85	12.70	12.93	12.97	13.09	13.13	13.38	13.43
63.0	9.614	9.883	10.43	10.32	10.56	10.55	10.81	10.87	11.09	11.13
66.0	7.562	7.851	8.338	8.262	8.379	8.355	8.659	8.670	8.899	8.946
69.0	4.829	5.166	5.709	5.567	5.509	5.528	5.794	5.919	6.238	6.396
72.0	2.231	2.434	2.905	2.628	2.633	2.638	2.854	2.938	3.453	3.552
75.0	0.5844	0.5893	0.5870	0.5406	0.5415	0.5456	0.5654	0.6051	0.9748	1.226
78.0	0.3700	0.3582	0.3712	0.3786	0.3690	0.3764	0.3734	0.3896	0.3996	0.4224
81.0	0.2606	0.2490	0.2533	0.2648	0.2489	0.2605	0.2532	0.2714	0.2707	0.2977
84.0	0.1775	0.1594	0.1614	0.1795	0.1571	0.1752	0.1593	0.1839	0.1724	0.1993
87.0	0.1139	0.0940	0.0807	0.0986	0.0829	0.1030	0.0851	0.1117	0.0960	0.1292
90.0	0.0940	0.0940	0.0656	0.0678	0.0678	0.0678	0.0678	0.0678	0.0656	0.0700
G/C	300.0	315.0	330.0	345.0						
0.0	7195	7196	7108	7082						
3.0	7164	7168	7184	7107						
6.0	6658	6664	6767	6652						
9.0	5838	5836	5991	5849						
12.0	4789	4785	4976	4821						
15.0	3667	3663	3863	3718						
18.0	2622	2625	2823	2699						
21.0	1693	1691	1853	1751						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-07-26

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	1104	1094	1177	1116
27.0	755.8	749.8	795.7	763.9
30.0	526.2	521.6	555.3	535.7
33.0	368.3	366.8	390.3	375.1
36.0	254.3	253.9	272.2	261.2
39.0	168.2	169.0	183.4	175.4
42.0	103.1	104.8	115.6	109.9
45.0	64.14	64.91	70.99	67.98
48.0	41.25	41.82	45.58	43.58
51.0	27.65	28.02	29.88	28.89
54.0	20.62	21.00	22.08	21.46
57.0	17.39	17.67	18.09	17.72
60.0	14.42	14.50	14.89	14.55
63.0	11.79	11.89	12.24	11.88
66.0	9.574	9.640	9.909	9.653
69.0	7.264	7.304	7.718	7.477
72.0	4.531	4.575	4.926	4.771
75.0	1.889	1.915	2.227	2.052
78.0	0.4761	0.4904	0.5307	0.5315
81.0	0.3340	0.3523	0.3755	0.3873
84.0	0.2161	0.2430	0.2489	0.2627
87.0	0.1288	0.1555	0.1506	0.1730
90.0	0.0678	0.0875	0.0831	0.0962

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-07-26

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: