

LED Tracklight FOCUS S-15W-940-25D



Light Output Ratio:	100.0%	
Luminaire Power:	15.52 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

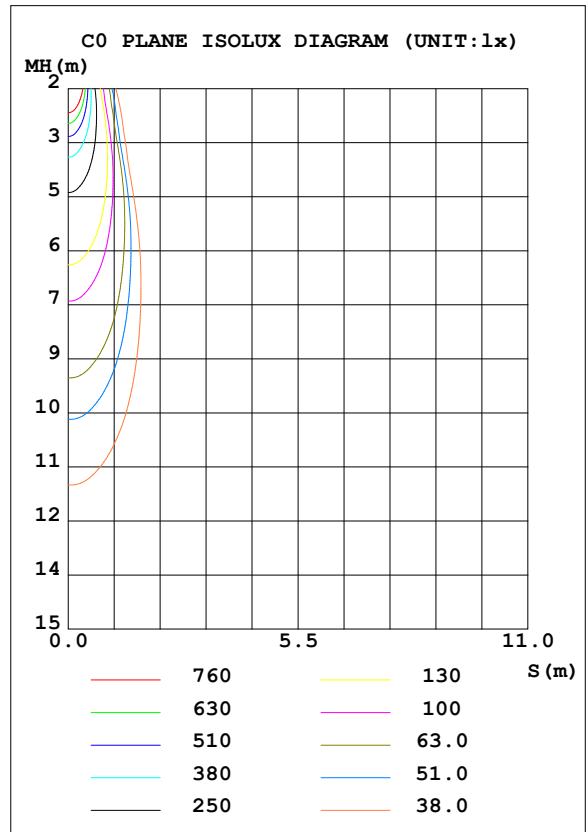
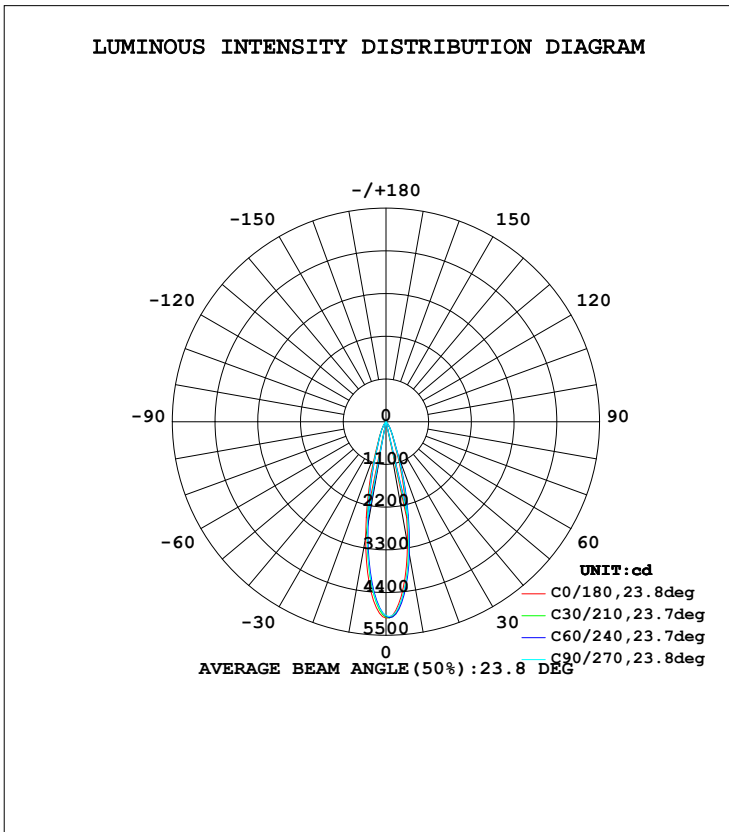
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-31

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:220.8V I:0.0755A P:15.52W PF:0.9312 Lamp Flux:1133.94x1 lm		
NAME: FOCUS S-15W-940-25D	TYPE:Downlight	SERIAL No.:
SPEC.:4000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.08 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	5056	S/MH (C0/180)	0.40
NOMINAL POWER (W)	15	LOR (%)	100.0	S/MH (C90/270)	0.37
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1133.9	η UP, DN (C0-180)	0.0, 51.8
NOMINAL FLUX (lm)	1133.94	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.2
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



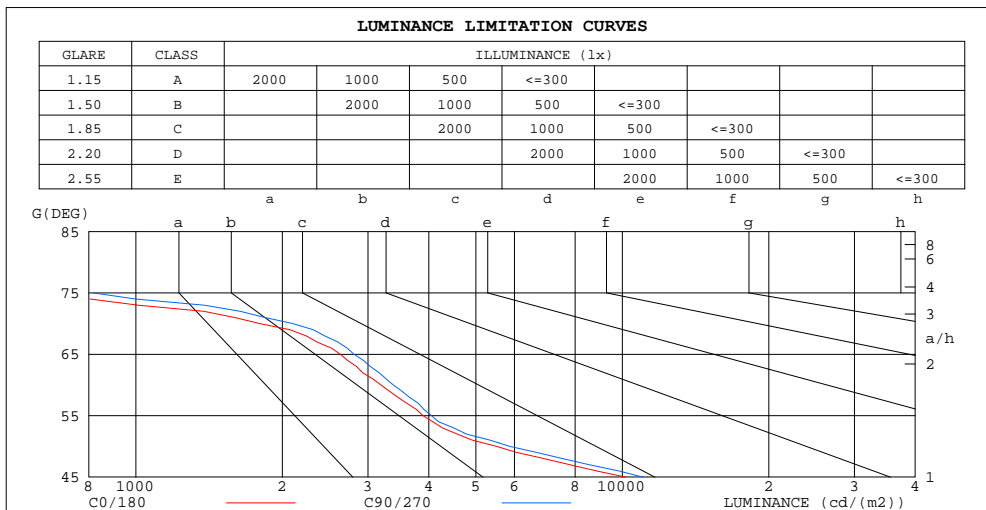
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**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	3180	3429	3379	2745	3024	2708	2774	3454	0- 10	378.7	378.7	33.4,33.4
20	757.3	915.9	871.2	588.5	683.3	599.5	603.1	887.9	10- 20	465.1	843.8	74.4,74.4
30	222.5	245.7	239.3	183.4	204.4	181.4	187.0	246.8	20- 30	182.0	1026	90.5,90.5
40	59.14	68.24	65.87	42.35	50.84	42.83	44.54	67.29	30- 40	73.95	1100	97,97
50	13.64	15.00	14.53	10.58	12.08	10.80	11.00	14.80	40- 50	21.39	1121	98.9,98.9
60	6.133	6.453	6.503	5.594	6.058	5.635	5.690	6.488	50- 60	7.701	1129	99.5,99.5
70	2.369	2.727	2.768	1.994	2.392	1.920	1.947	2.832	60- 70	4.181	1133	99.9,99.9
80	0.1773	0.1987	0.2123	0.1354	0.1332	0.1291	0.1114	0.1816	70- 80	0.8501	1134	100,100
90	0.0503	0.0503	0.0634	0.0481	0.0328	0.0350	0.0350	0.0415	80- 90	0.0965	1134	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		



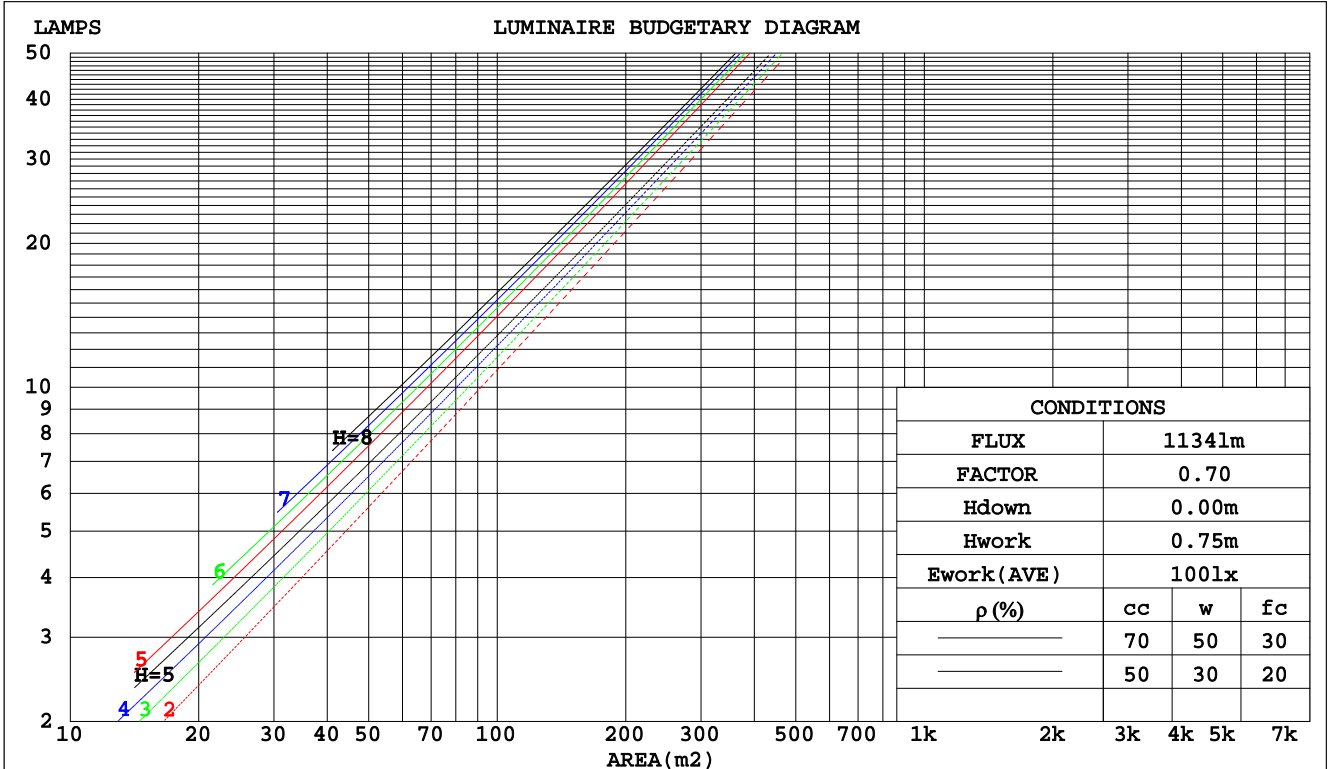
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.13	1.11	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2.0	1.07	1.04	1.01	1.05	1.02	1.00	1.02	.99	.98	.99	.97	.96	.97	.95	.94	.92
3.0	1.02	.98	.95	1.01	.97	.94	.98	.95	.93	.96	.94	.92	.94	.92	.90	.89
4.0	.98	.93	.90	.97	.93	.90	.95	.91	.89	.93	.90	.88	.91	.89	.87	.86
5.0	.94	.89	.86	.93	.89	.86	.91	.88	.85	.90	.87	.84	.88	.86	.84	.83
6.0	.90	.86	.83	.90	.85	.82	.88	.85	.82	.87	.84	.81	.86	.83	.81	.80
7.0	.87	.83	.80	.86	.82	.79	.85	.82	.79	.84	.81	.79	.83	.80	.78	.77
8.0	.84	.80	.77	.84	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.76	.75
9.0	.82	.77	.74	.81	.77	.74	.80	.77	.74	.80	.76	.74	.79	.76	.74	.73
10.0	.79	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.72	.77	.74	.71	.70



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 Humidity:52%
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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	.143	.081	.026	.136	.078	.025	.124	.071	.023	.113	.065	.021	.102	.059	.019	
2.0	.133	.073	.022	.128	.070	.022	.118	.065	.020	.108	.061	.019	.099	.056	.018	
3.0	.125	.066	.020	.120	.064	.019	.112	.061	.018	.104	.057	.017	.096	.053	.017	
4.0	.117	.061	.018	.113	.059	.018	.106	.056	.017	.099	.053	.016	.093	.051	.015	
5.0	.111	.056	.016	.107	.055	.016	.101	.053	.016	.095	.050	.015	.090	.048	.014	
6.0	.105	.053	.015	.102	.052	.015	.097	.050	.014	.092	.048	.014	.087	.046	.014	
7.0	.100	.049	.014	.097	.048	.014	.092	.047	.013	.088	.045	.013	.084	.044	.013	
8.0	.095	.046	.013	.093	.046	.013	.089	.044	.013	.085	.043	.012	.081	.042	.012	
9.0	.091	.044	.012	.089	.043	.012	.085	.042	.012	.082	.041	.012	.078	.040	.012	
10.0	.087	.042	.012	.085	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	

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						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	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.117	.129	.114	.101	.089	.079	.071	.051	.046	.041	.016	.015	.013	
3.0	.137	.113	.095	.117	.098	.082	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.107	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.114	.086	.065	.098	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.105	.076	.055	.091	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.098	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.092	.061	.040	.079	.053	.035	.055	.037	.025	.032	.022	.015	.010	.007	.005	
9.0	.086	.056	.035	.074	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.081	.051	.031	.070	.044	.027	.048	.031	.019	.028	.018	.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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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	13.3	14.0	13.5	14.1	14.3	13.7	14.4	13.9	14.6	14.7
3H	13.3	13.9	13.5	14.1	14.3	13.7	14.4	14.0	14.6	14.7
4H	13.2	13.8	13.5	14.0	14.2	13.7	14.3	13.9	14.5	14.7
6H	13.1	13.7	13.4	13.9	14.2	13.6	14.2	13.9	14.4	14.6
8H	13.1	13.6	13.4	13.9	14.1	13.5	14.1	13.8	14.3	14.6
12H	13.0	13.6	13.4	13.8	14.1	13.5	14.0	13.8	14.3	14.6
4H 2H	13.2	13.8	13.4	14.0	14.2	13.6	14.2	13.9	14.4	14.6
3H	13.2	13.7	13.5	14.0	14.2	13.6	14.1	13.9	14.4	14.7
4H	13.1	13.6	13.4	13.9	14.2	13.5	14.0	13.9	14.3	14.6
6H	13.0	13.4	13.4	13.8	14.1	13.4	13.9	13.8	14.2	14.5
8H	12.9	13.4	13.3	13.7	14.1	13.4	13.8	13.8	14.1	14.5
12H	12.9	13.3	13.3	13.6	14.0	13.3	13.7	13.7	14.1	14.5
8H 4H	13.0	13.4	13.3	13.7	14.1	13.4	13.8	13.8	14.2	14.5
6H	12.9	13.2	13.3	13.6	14.0	13.3	13.6	13.7	14.0	14.4
8H	12.8	13.1	13.2	13.5	13.9	13.2	13.5	13.7	13.9	14.4
12H	12.7	13.0	13.2	13.4	13.9	13.2	13.4	13.6	13.9	14.3
12H 4H	12.9	13.3	13.3	13.6	14.0	13.3	13.7	13.8	14.1	14.5
6H	12.8	13.1	13.2	13.5	13.9	13.2	13.5	13.7	13.9	14.4
8H	12.7	13.0	13.2	13.4	13.9	13.2	13.4	13.6	13.9	14.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.5 / - 5.4					+ 2.6 / - 5.6				
1.5H	+ 4.5 / - 4.7					+ 4.6 / - 4.9				
2.0H	+ 3.9 / - 2.2					+ 4.1 / - 2.3				

CIE Pub.117 Corrected 1134 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.4)

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 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.8V I:0.0755A P:15.52W PF:0.9312 Lamp Flux:1133.94x1 lm		
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SPEC.:4000K	DIM.: φ70mm*H138mm	
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	90	84	80	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	100	98	94
2.00	109	105	103	108	104	102	105	102	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	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

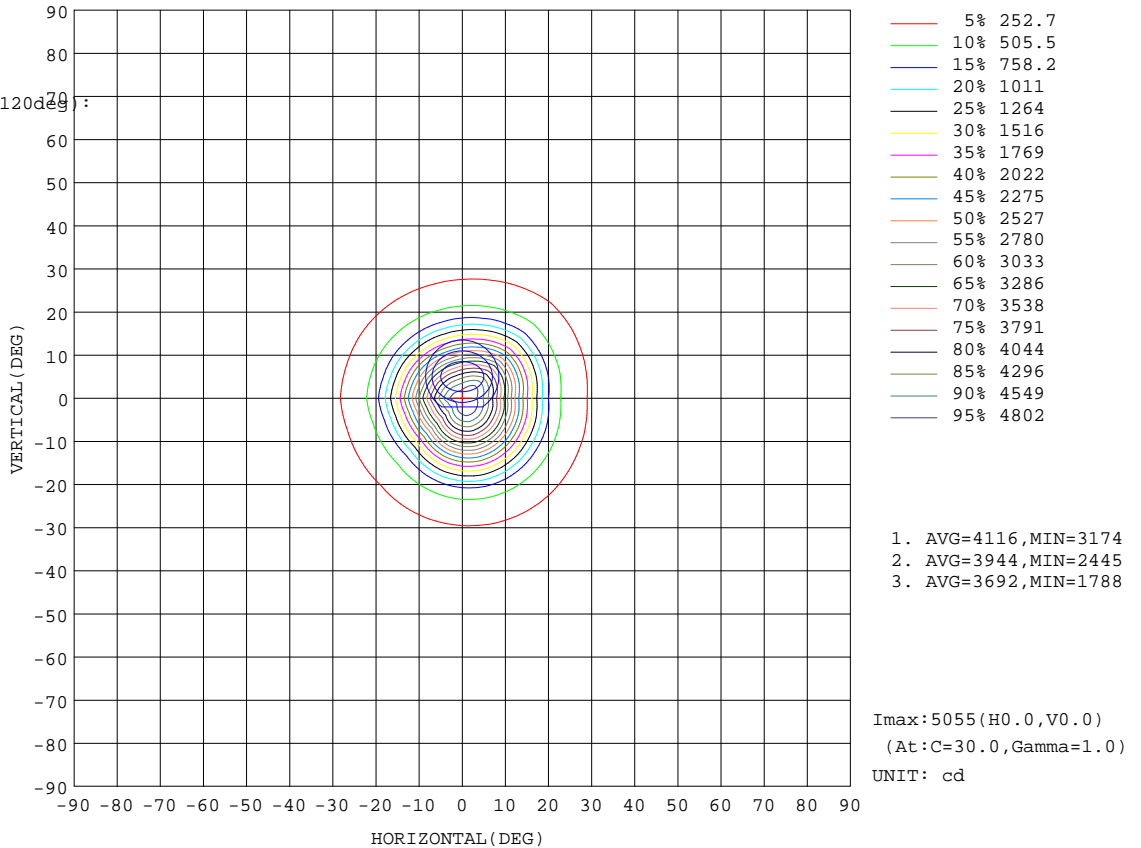
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Conical surface Flux(90deg):

1113.7 lm
%lum = 98.2%
%lamp = 98.2%

Conical surface Flux(120deg):

1128.8 lm
%lum = 99.5%
%lamp = 99.5%



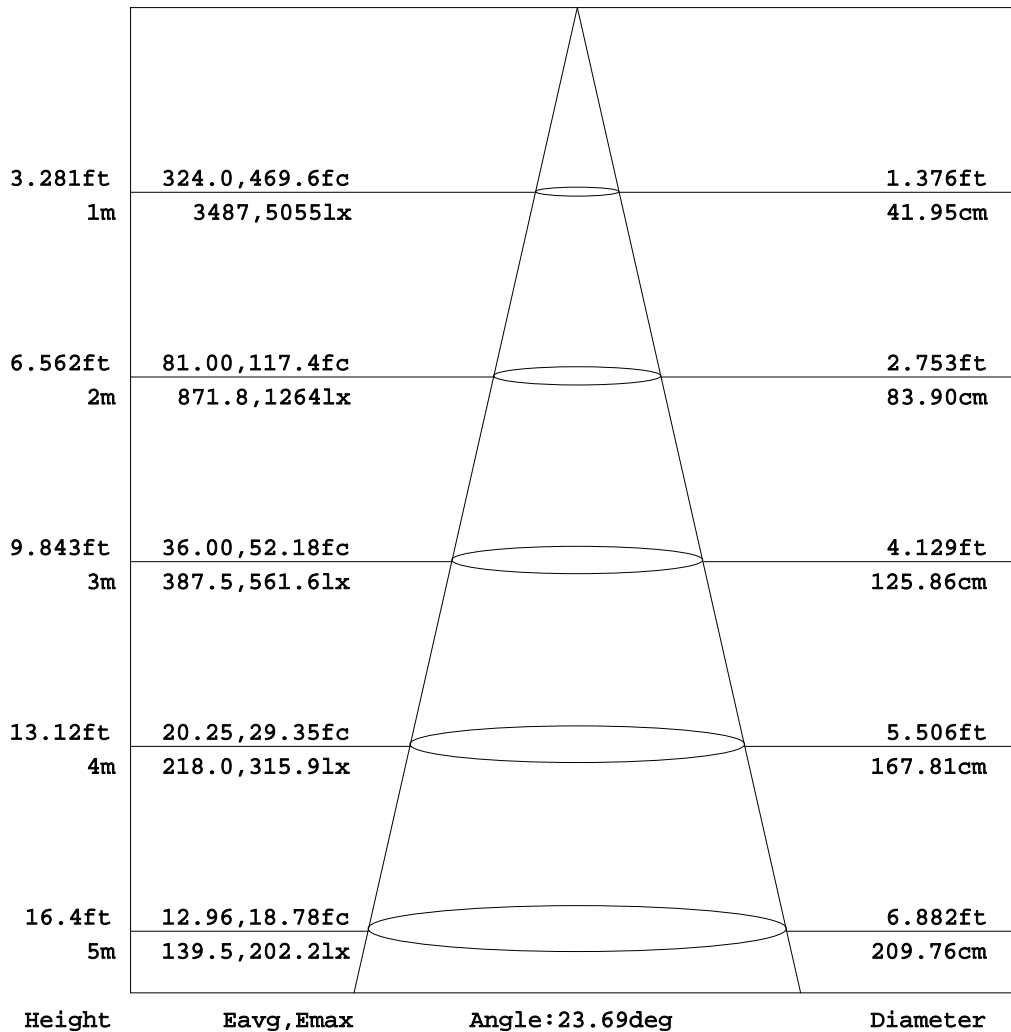
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AAI Figure

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Flux out:495.0 lm



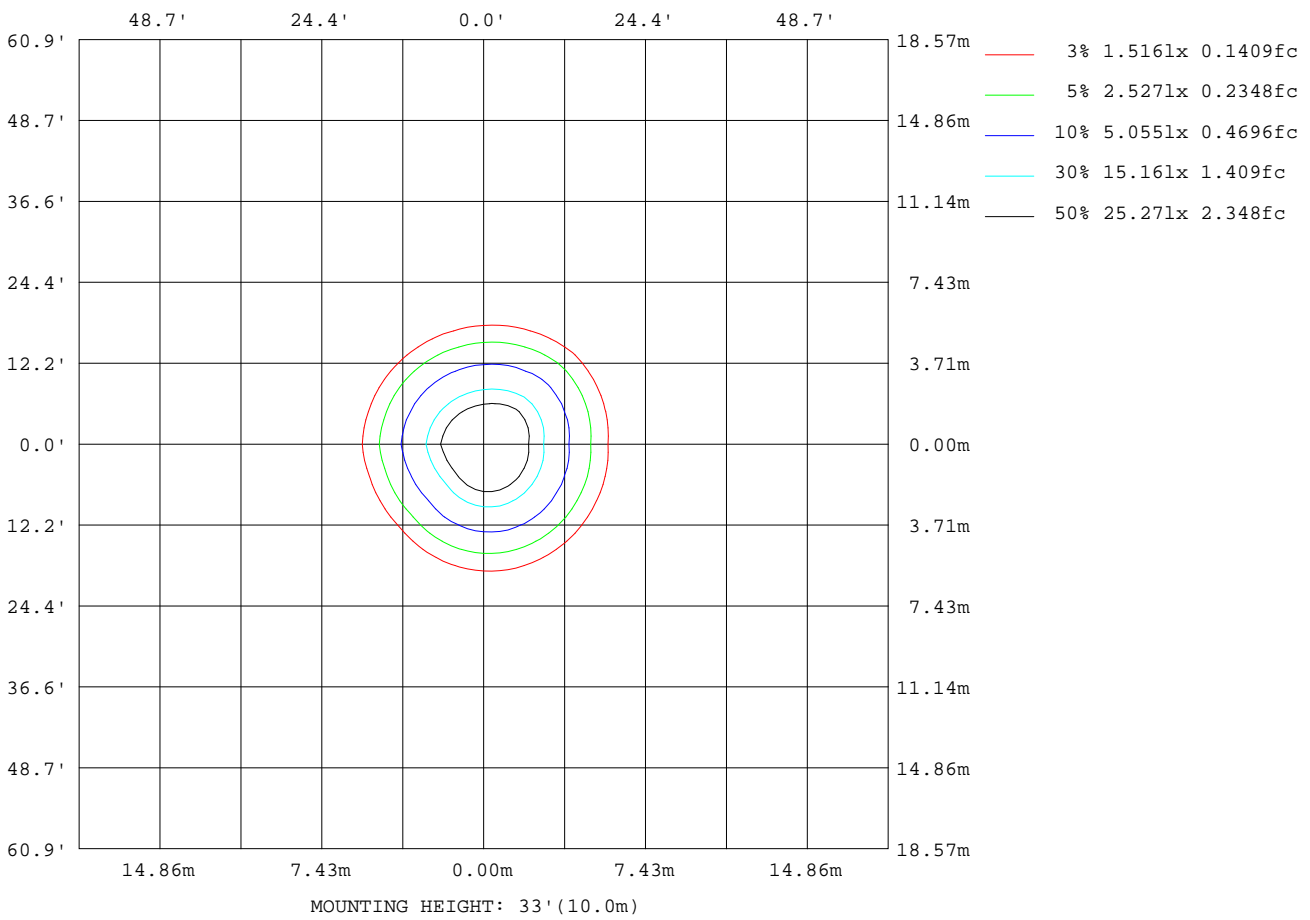
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

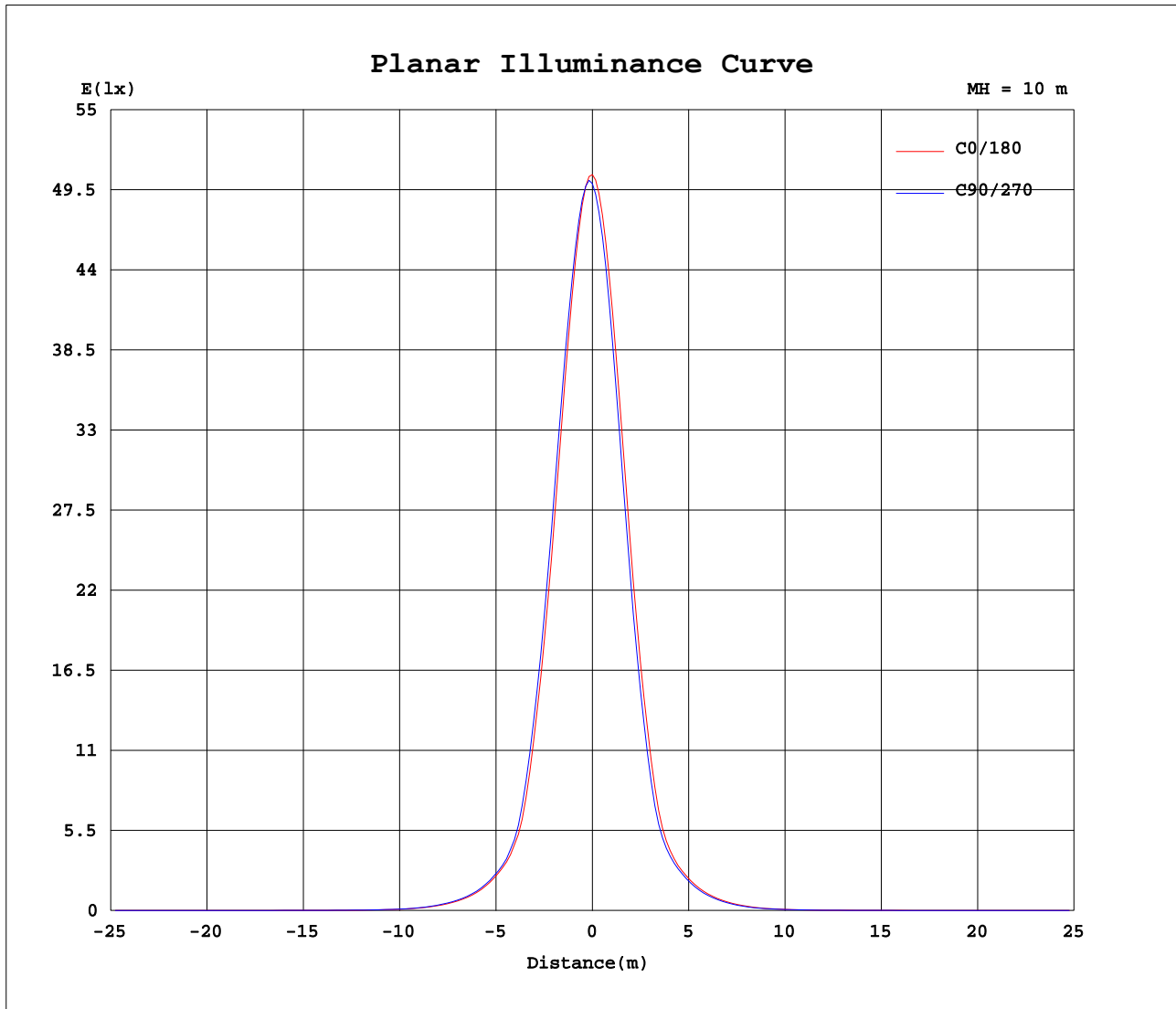
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Planar Illuminance Curve



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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	5055	5045	5036	5022	5007	4996	4992	5005	5013	4985
3.0	4864	4916	4933	4961	4959	4951	4901	4834	4732	4596
6.0	4288	4375	4414	4466	4479	4482	4405	4290	4119	3913
9.0	3480	3591	3639	3721	3747	3760	3665	3522	3299	3052
12.0	2580	2698	2757	2846	2880	2886	2788	2635	2407	2166
15.0	1776	1879	1932	2014	2041	2039	1950	1816	1623	1429
18.0	1108	1197	1247	1318	1342	1339	1256	1139	979.1	828.5
21.0	643.6	689.9	718.7	758.5	777.6	769.3	720.3	651.3	589.6	518.5
24.0	438.4	459.9	472.2	487.2	492.7	488.7	467.0	441.1	407.3	372.8
27.0	317.4	332.0	338.2	347.3	350.4	349.9	340.1	318.8	292.1	264.3
30.0	222.5	232.9	238.0	245.7	249.0	248.5	239.3	224.2	204.2	183.4
33.0	154.2	161.9	166.2	171.5	174.0	173.3	166.9	155.6	140.8	125.9
36.0	105.1	110.8	114.9	118.4	120.7	119.7	115.1	106.0	94.67	82.28
39.0	68.59	73.01	76.35	79.30	81.31	80.46	76.66	69.10	60.67	50.87
42.0	41.96	45.13	47.54	49.70	51.26	50.69	47.30	41.74	35.39	31.18
45.0	27.64	29.07	30.14	31.49	32.32	31.99	29.99	27.21	23.51	20.26
48.0	17.76	18.72	19.38	20.19	20.77	20.58	19.39	17.50	15.16	13.33
51.0	11.90	12.62	12.89	13.27	13.65	13.58	12.94	11.77	10.54	9.779
54.0	9.221	9.408	9.317	9.604	9.884	9.904	9.474	9.078	8.433	8.038
57.0	7.554	7.797	7.758	7.854	8.086	8.140	7.981	7.624	7.104	6.724
60.0	6.133	6.293	6.326	6.453	6.640	6.664	6.503	6.235	5.915	5.594
63.0	4.965	5.104	5.145	5.259	5.358	5.382	5.298	5.143	4.878	4.549
66.0	3.948	4.066	4.127	4.187	4.246	4.276	4.254	4.099	3.826	3.570
69.0	2.857	2.991	3.043	3.119	3.189	3.224	3.191	3.020	2.653	2.341
72.0	1.640	1.780	1.823	1.886	1.981	2.011	1.948	1.823	1.449	1.115
75.0	0.6323	0.7456	0.8028	0.8339	0.8632	0.8623	0.8140	0.7125	0.4938	0.3120
78.0	0.2167	0.2185	0.2474	0.2381	0.2681	0.2425	0.2539	0.2163	0.2079	0.1660
81.0	0.1576	0.1529	0.1860	0.1704	0.2035	0.1791	0.1948	0.1594	0.1554	0.1157
84.0	0.1095	0.1005	0.1336	0.1179	0.1467	0.1201	0.1401	0.1026	0.1116	0.0765
87.0	0.0745	0.0633	0.0898	0.0765	0.1007	0.0743	0.1007	0.0633	0.0767	0.0503
90.0	0.0503	0.0459	0.0503	0.0503	0.0634	0.0590	0.0634	0.0503	0.0503	0.0481
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4996	5000	5055	5036	5036	5022	5007	4996	4992	5005
3.0	4615	4654	4794	4722	4681	4633	4608	4603	4646	4732
6.0	3939	3994	4175	4050	3984	3907	3881	3879	3961	4101
9.0	3066	3129	3326	3182	3103	3013	2981	2982	3075	3247
12.0	2178	2230	2420	2286	2212	2129	2092	2094	2183	2344
15.0	1434	1483	1630	1519	1463	1387	1366	1355	1435	1561
18.0	835.0	869.6	985.6	899.1	857.0	809.8	789.4	788.2	836.5	931.5
21.0	518.7	532.8	589.1	562.5	537.1	518.0	511.3	509.0	527.8	575.0
24.0	373.3	377.7	405.8	388.1	379.6	368.1	363.4	362.7	376.7	400.8
27.0	264.4	269.2	292.3	277.6	270.2	262.1	257.6	258.1	269.1	288.4
30.0	183.6	187.1	204.4	193.7	188.2	181.4	179.1	179.4	187.0	201.5
33.0	125.4	128.9	140.8	132.9	129.6	124.0	121.4	122.8	129.0	139.2
36.0	83.10	84.91	94.51	89.02	85.39	82.16	80.01	80.71	84.83	93.09
39.0	51.43	53.07	60.05	55.97	53.42	51.06	49.61	50.04	53.07	59.49
42.0	31.49	32.28	35.83	34.02	32.85	31.76	31.07	31.34	32.90	35.61
45.0	20.42	21.03	23.76	22.17	21.31	20.54	20.15	20.26	21.30	23.35
48.0	13.47	13.80	15.36	14.48	13.96	13.58	13.36	13.46	13.95	15.09
51.0	9.882	10.08	10.81	10.47	10.16	9.911	9.766	9.822	10.12	10.56
54.0	6.067	6.207	6.684	6.488	6.284	6.192	6.142	6.142	6.254	6.405
57.0	4.776	4.914	5.317	5.140	4.948	4.856	4.821	4.812	4.932	5.098
60.0	3.638	3.729	4.058	3.884	3.764	3.635	3.637	3.598	3.690	3.858
63.0	2.561	2.622	2.934	2.740	2.632	2.538	2.553	2.555	2.605	2.757
66.0	1.614	1.699	1.932	1.764	1.639	1.551	1.529	1.549	1.603	1.736
69.0	1.077	1.129	1.294	1.164	1.077	1.014	1.014	1.014	1.077	1.164
72.0	0.716	0.743	0.843	0.764	0.716	0.681	0.681	0.681	0.716	0.764
75.0	0.481	0.508	0.581	0.529	0.496	0.477	0.477	0.477	0.496	0.529
78.0	0.324	0.343	0.405	0.376	0.357	0.343	0.343	0.343	0.357	0.376
81.0	0.221	0.231	0.281	0.264	0.257	0.257	0.257	0.257	0.264	0.281
84.0	0.157	0.167	0.207	0.190	0.183	0.183	0.183	0.183	0.190	0.207
87.0	0.109	0.119	0.149	0.142	0.142	0.142	0.142	0.142	0.149	0.157
90.0	0.074	0.084	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
G/C	300.0	315.0	330.0	345.0						
0.0	5013	4985	4996	5000						
3.0	4843	4939	4938	4898						
6.0	4288	4472	4461	4393						
9.0	3490	3739	3718	3631						
12.0	2585	2857	2829	2747						
15.0	1760	1991	1977	1913						
18.0	1089	1282	1286	1227						
21.0	627.8	727.4	727.7	701.1						

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: Meng Yongjian

Test Date: 2017-07-31

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	439.3	483.0	480.0	463.8
27.0	316.8	351.7	348.3	338.8
30.0	222.2	246.8	244.3	236.4
33.0	154.4	172.2	169.9	164.3
36.0	104.6	118.4	116.2	112.4
39.0	67.51	78.25	76.47	74.15
42.0	40.78	48.41	47.64	46.11
45.0	26.98	30.60	30.34	29.62
48.0	17.17	19.88	19.77	19.23
51.0	11.38	13.11	13.15	12.87
54.0	8.782	9.441	9.518	9.441
57.0	7.329	7.844	7.900	7.805
60.0	6.089	6.488	6.482	6.340
63.0	4.998	5.269	5.278	5.153
66.0	3.986	4.238	4.242	4.161
69.0	2.909	3.203	3.181	3.090
72.0	1.660	1.998	1.976	1.868
75.0	0.5695	0.8181	0.8019	0.7804
78.0	0.1813	0.2233	0.2009	0.2232
81.0	0.1266	0.1619	0.1376	0.1620
84.0	0.0742	0.1117	0.0894	0.1138
87.0	0.0371	0.0744	0.0545	0.0745
90.0	0.0328	0.0415	0.0394	0.0394

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-07-31

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: