

LED Tracklight FOCUS M-42W-940-50D



Light Output Ratio:	100.0%	
Luminaire Power:	41.47 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-07

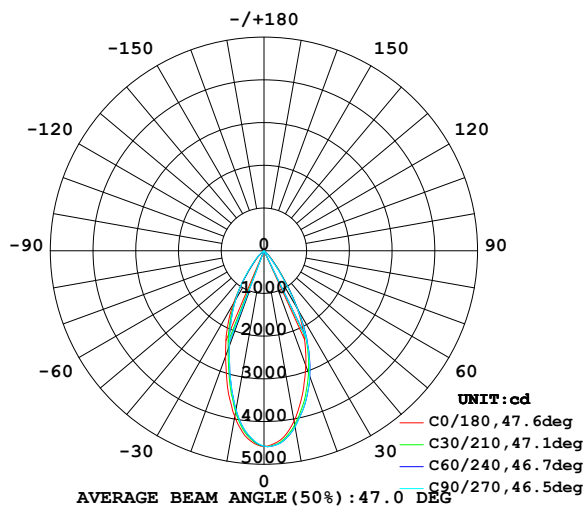
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

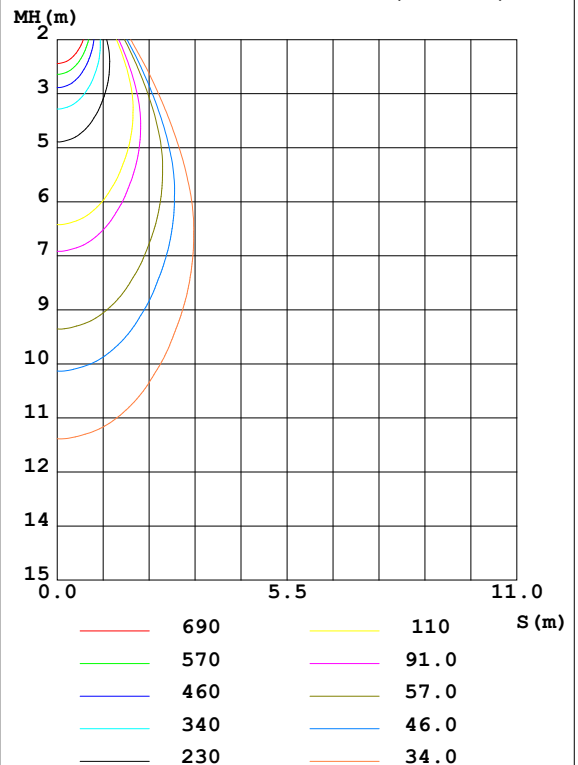
Test:U:220.7V I:0.1995A P:41.47W PF:0.9417 Lamp Flux:3013.8x1 lm		
NAME: FOCUS M-42W-940-50D	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: $\phi 90\text{mm} \times H220\text{mm}$	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.68 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	4593	S/MH (C0/180)	0.70
NOMINAL POWER (W)	42	LOR (%)	100.0	S/MH (C90/270)	0.65
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	3013.8	η UP,DN (C0-180)	0.0, 52.0
NOMINAL FLUX (lm)	3013.8	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0, 48.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



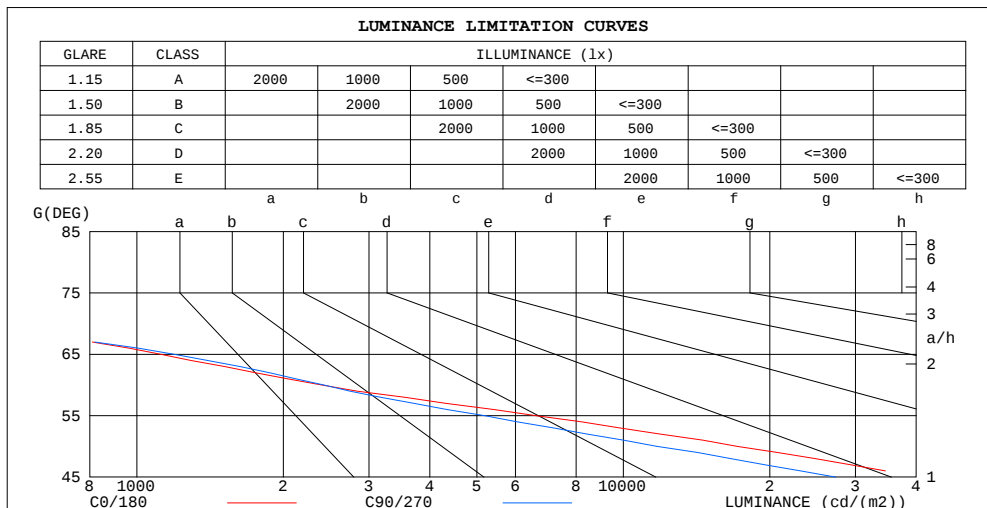
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Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4054	4177	4187	4094	3946	3785	3779	3881	0- 10	407.9	407.9	13.5,13.5
20	2863	3121	3131	2936	2634	2396	2379	2552	10- 20	937.7	1346	44.6,44.6
30	1544	1623	1559	1542	1444	1335	1339	1414	20- 30	966.2	2312	76.7,76.7
40	396.0	343.8	297.5	331.8	381.1	413.4	456.7	448.3	30- 40	524.5	2836	94.1,94.1
50	70.08	53.87	47.97	51.89	67.76	83.28	98.65	93.66	40- 50	147.8	2984	99,99
60	7.617	6.855	7.698	6.744	7.079	8.758	9.372	9.021	50- 60	25.43	3010	99.9,99.9
70	0.7597	0.6093	0.6263	0.6881	0.8320	1.151	1.317	1.120	60- 70	3.511	3013	100,100
80	0.2626	0.2098	0.2385	0.2447	0.2642	0.3064	0.2948	0.2779	70- 80	0.4844	3014	100,100
90	0.1552	0.1640	0.1596	0.1531	0.0831	0.0853	0.0853	0.0853	80- 90	0.1876	3014	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		



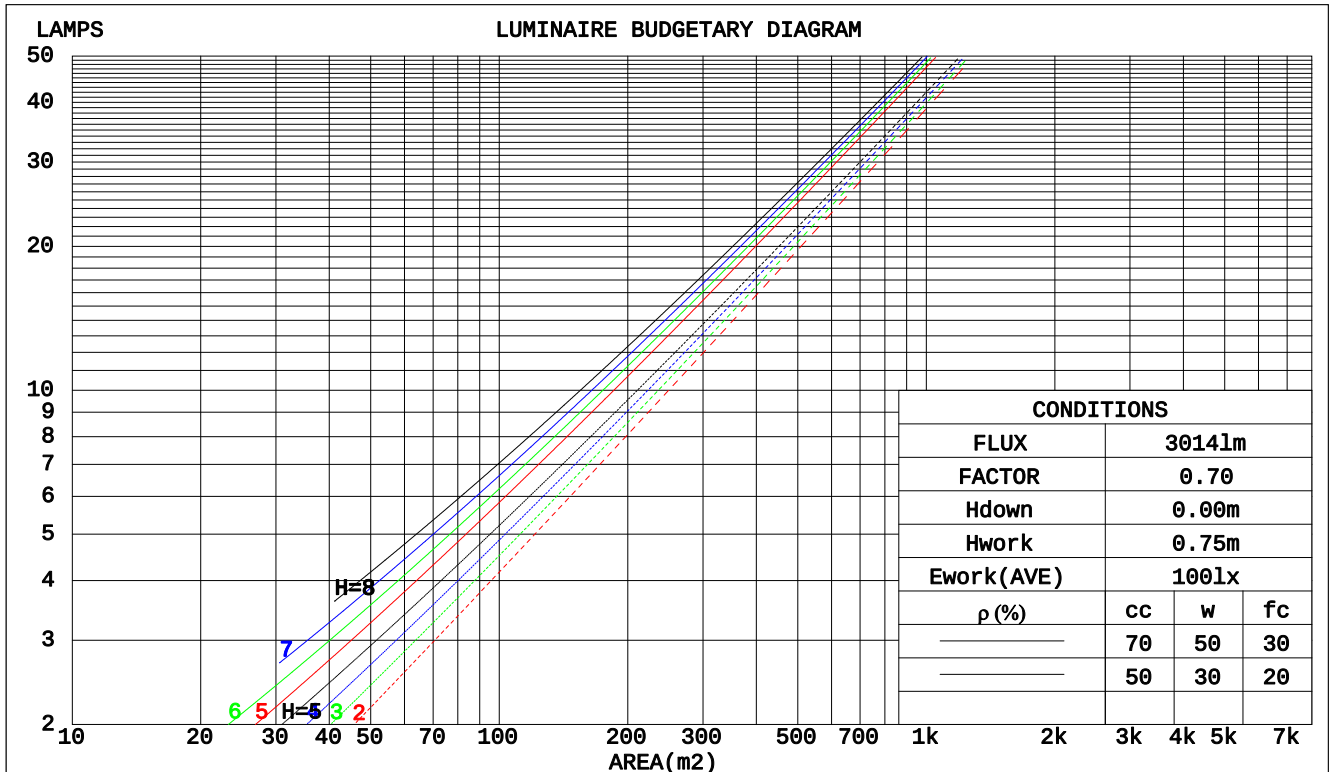
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.1995A P:41.47W PF:0.9417 Lamp Flux:3013.8x1 lm		
NAME: FOCUS M-42W-940-50D	TYPE:Tracklight	SERIAL No.:
SPEC.:4000K	DIM.: $\phi 90\text{mm} \times H220\text{mm}$	
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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.99	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.97	.93	.89	.96	.92	.88	.93	.90	.87	.91	.88	.85	.89	.86	.84	.83
4.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.84	.81	.79	.77
5.0	.86	.81	.76	.85	.80	.76	.83	.79	.75	.82	.78	.75	.80	.77	.74	.73
6.0	.81	.75	.71	.80	.75	.71	.79	.74	.71	.78	.73	.70	.76	.73	.70	.68
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.66	.74	.69	.66	.73	.69	.66	.64
8.0	.73	.67	.63	.72	.67	.63	.71	.66	.63	.70	.66	.62	.69	.65	.62	.61
9.0	.69	.63	.60	.68	.63	.59	.67	.63	.59	.67	.62	.59	.66	.62	.59	.58
10.0	.65	.60	.56	.65	.60	.56	.64	.59	.56	.64	.59	.56	.63	.59	.56	.55



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WEC AND CCEC

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SPEC.:4000K	DIM.: φ90mm*H220mm	
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	.170	.097	.031	.163	.093	.030	.151	.086	.028	.139	.080	.026	.129	.075	.024		
2.0	.162	.089	.027	.157	.086	.027	.146	.081	.025	.137	.077	.024	.128	.072	.023		
3.0	.155	.082	.025	.150	.080	.024	.141	.076	.023	.133	.073	.022	.125	.069	.021		
4.0	.147	.077	.023	.143	.075	.022	.136	.072	.021	.128	.069	.021	.122	.066	.020		
5.0	.140	.072	.021	.137	.070	.020	.130	.068	.020	.124	.065	.019	.118	.063	.019		
6.0	.134	.067	.019	.131	.066	.019	.125	.064	.019	.120	.062	.018	.115	.060	.018		
7.0	.128	.063	.018	.126	.063	.018	.120	.061	.018	.116	.059	.017	.111	.058	.017		
8.0	.123	.060	.017	.120	.059	.017	.116	.058	.017	.111	.056	.016	.107	.055	.016		
9.0	.118	.057	.016	.116	.056	.016	.112	.055	.016	.108	.054	.015	.104	.053	.015		
10.0	.113	.054	.015	.111	.054	.015	.108	.053	.015	.104	.052	.015	.101	.051	.015		

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	.171	.157	.145	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.084	.068	.055	.048	.040	.032	.016	.013	.011	
4.0	.132	.099	.073	.113	.085	.064	.078	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.123	.087	.061	.106	.075	.053	.073	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.040	.028	.019	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.089	.055	.032	.061	.039	.023	.036	.023	.014	.012	.008	.004	
9.0	.098	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

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γ Interval: 1.0DEG
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Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

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SPEC.:4000K					DIM.: $\phi 90\text{mm} \times H220\text{mm}$					
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	20.7	21.6	20.9	21.8	22.0	20.3	21.2	20.5	21.4	21.5
3H	20.6	21.4	20.8	21.6	21.8	20.1	21.0	20.4	21.1	21.3
4H	20.5	21.3	20.7	21.5	21.7	20.0	20.8	20.3	21.0	21.3
6H	20.4	21.1	20.7	21.4	21.6	19.9	20.7	20.2	20.9	21.2
8H	20.3	21.0	20.6	21.3	21.6	19.9	20.6	20.2	20.9	21.1
12H	20.3	21.0	20.6	21.2	21.5	19.9	20.5	20.2	20.8	21.1
4H 2H	20.5	21.3	20.7	21.5	21.7	20.0	20.8	20.3	21.0	21.3
3H	20.3	21.0	20.6	21.2	21.5	19.9	20.5	20.2	20.8	21.1
4H	20.2	20.8	20.5	21.1	21.4	19.8	20.4	20.1	20.7	21.0
6H	20.1	20.6	20.5	21.0	21.3	19.7	20.2	20.0	20.5	20.9
8H	20.1	20.6	20.4	20.9	21.3	19.6	20.1	20.0	20.5	20.8
12H	20.0	20.5	20.4	20.8	21.2	19.6	20.0	20.0	20.4	20.8
8H 4H	20.1	20.5	20.4	20.9	21.3	19.6	20.1	20.0	20.5	20.8
6H	19.9	20.4	20.4	20.7	21.2	19.5	19.9	19.9	20.3	20.7
8H	19.9	20.3	20.3	20.7	21.1	19.5	19.8	19.9	20.2	20.7
12H	19.8	20.1	20.3	20.6	21.1	19.4	19.7	19.9	20.2	20.6
12H 4H	20.0	20.5	20.4	20.8	21.2	19.6	20.0	20.0	20.4	20.8
6H	19.9	20.3	20.3	20.7	21.1	19.5	19.8	19.9	20.2	20.7
8H	19.8	20.1	20.3	20.6	21.1	19.4	19.7	19.9	20.2	20.6
Variations with the observer position at spacings:										
S = 1.0H	+ 3.8 / -15.6					+ 3.6 / -15.1				
1.5H	+ 5.9 / -12.5					+ 5.9 / -11.6				
2.0H	+ 7.4 / -13.9					+ 6.6 / -11.8				

CIE Pub.117 Corrected 3014 lm Total Lamp Luminous Flux.(8log(F/F₀) = 3.8)

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

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.1995A P:41.47W PF:0.9417 Lamp Flux:3013.8x1 lm		
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SPEC.:4000K	DIM.: $\varnothing 90\text{mm} \times H220\text{mm}$	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	78	87	81	78	87	81	78	74
0.80	95	90	86	95	89	86	93	89	85	82
1.00	100	94	91	99	94	90	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	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	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

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ISOCANDELA DIAGRAM

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SPEC.:4000K	DIM.: ϕ 90mm*H220mm	
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Conical surface Flux(90deg):

2936.1 lm

%lum = 97.4%

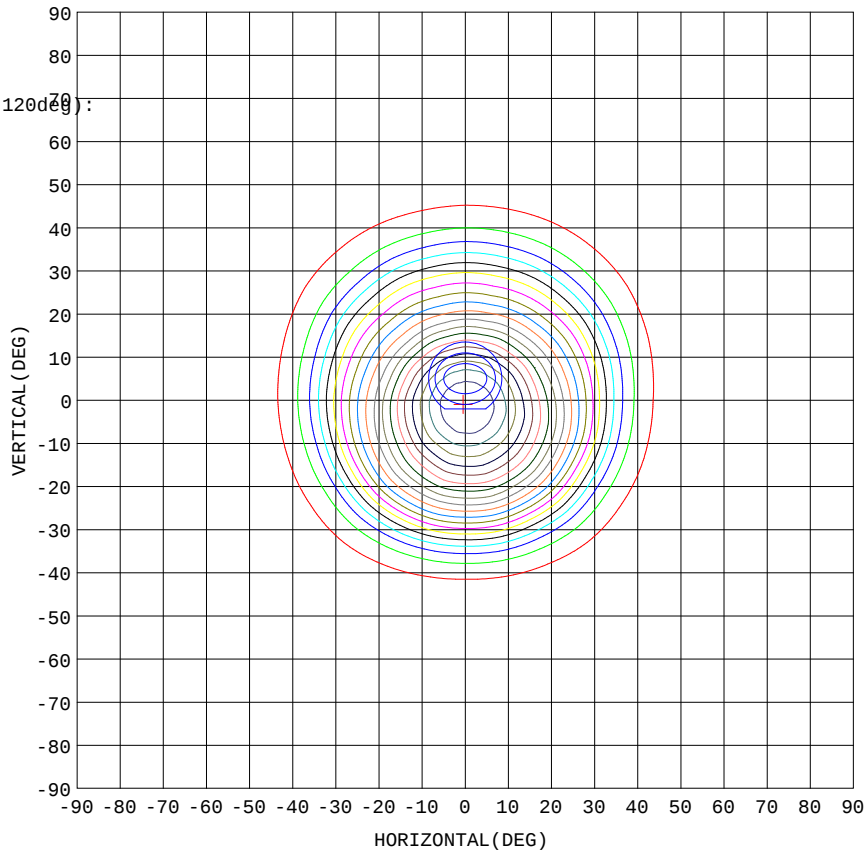
%lamp = 97.4%

Conical surface Flux(120deg):

3009.6 lm

%lum = 99.9%

%lamp = 99.9%



1. AVG=4260, MIN=3967
2. AVG=4194, MIN=3640
3. AVG=4097, MIN=3277

Imax:4591(H-0.5,V-1.0)
(At:C=120.0, Gamma=1.0)

UNIT: cd

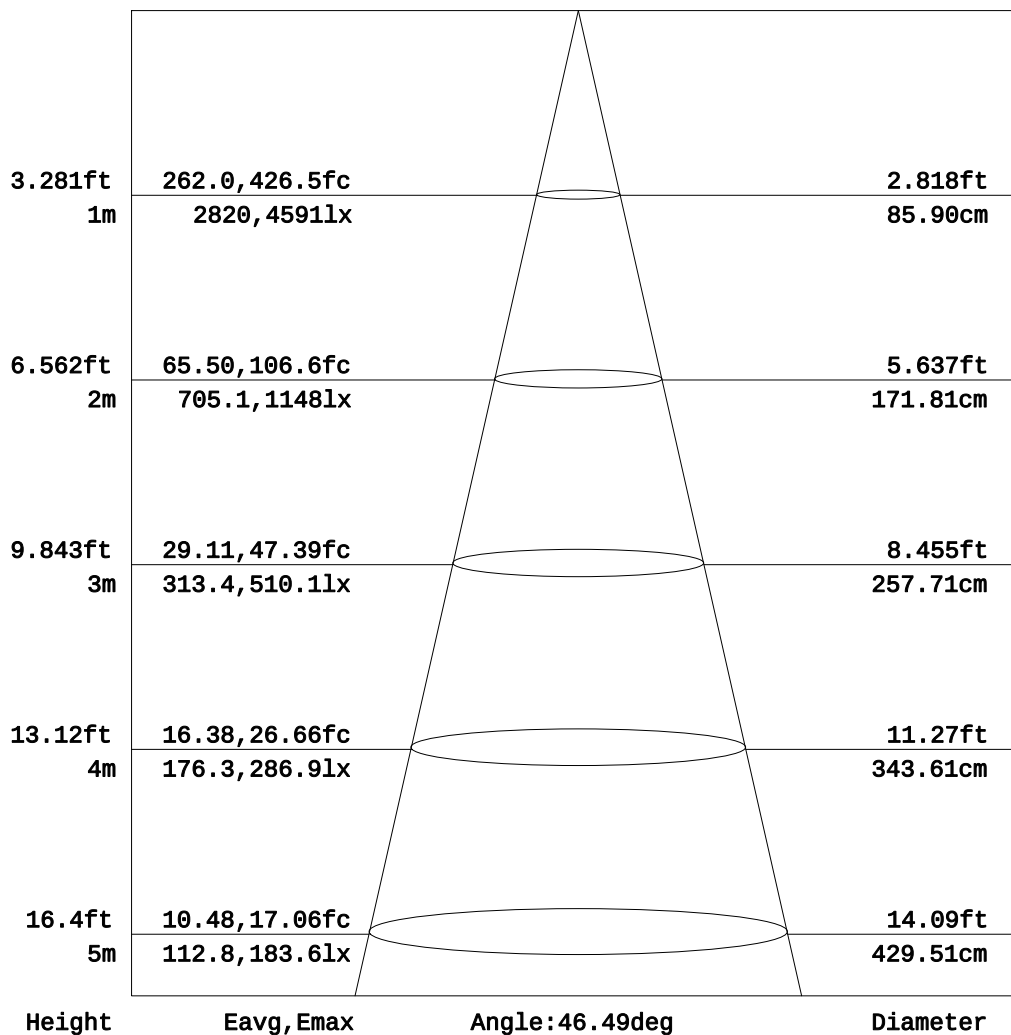
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AAI Figure

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Flux out:1756 lm



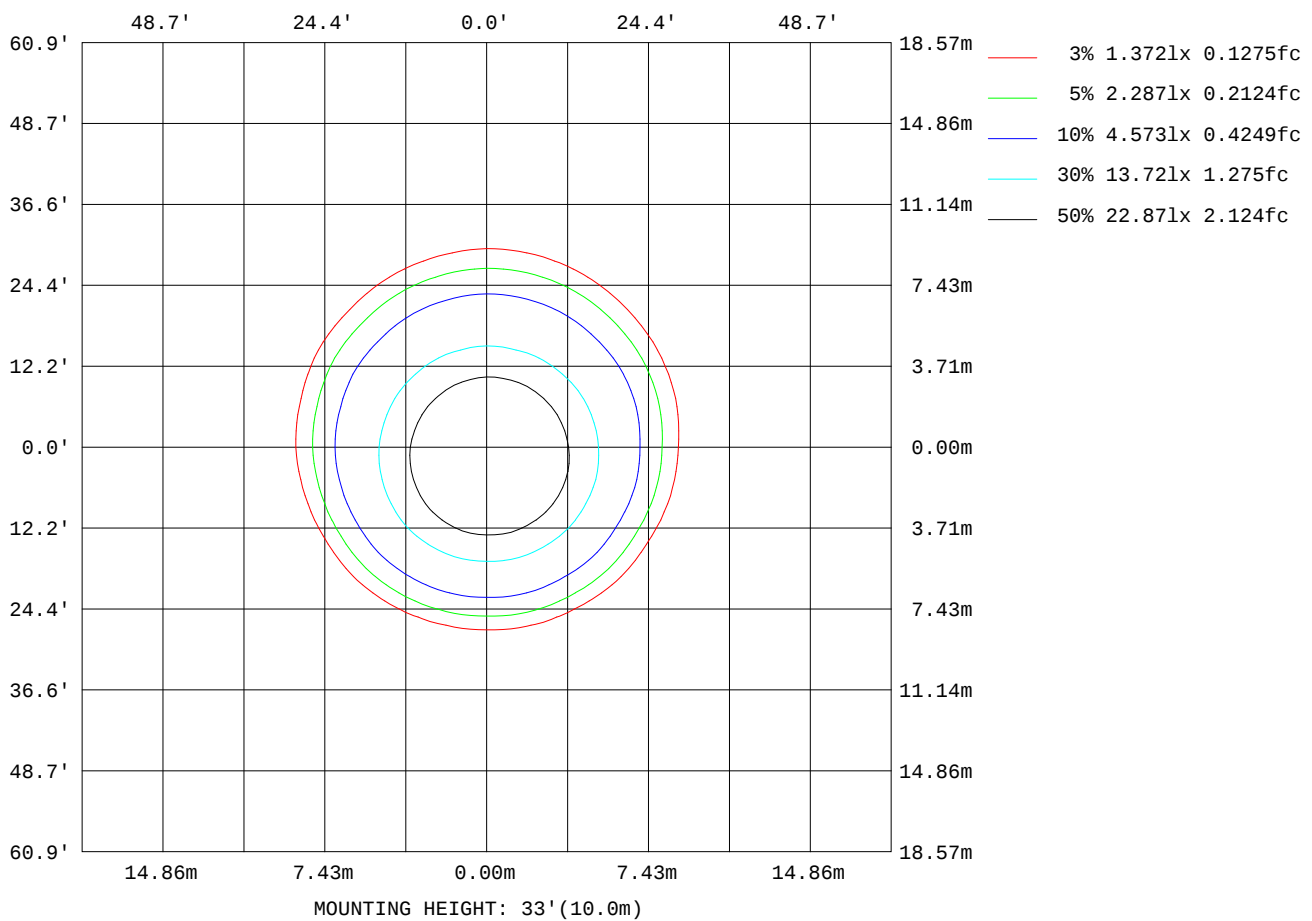
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

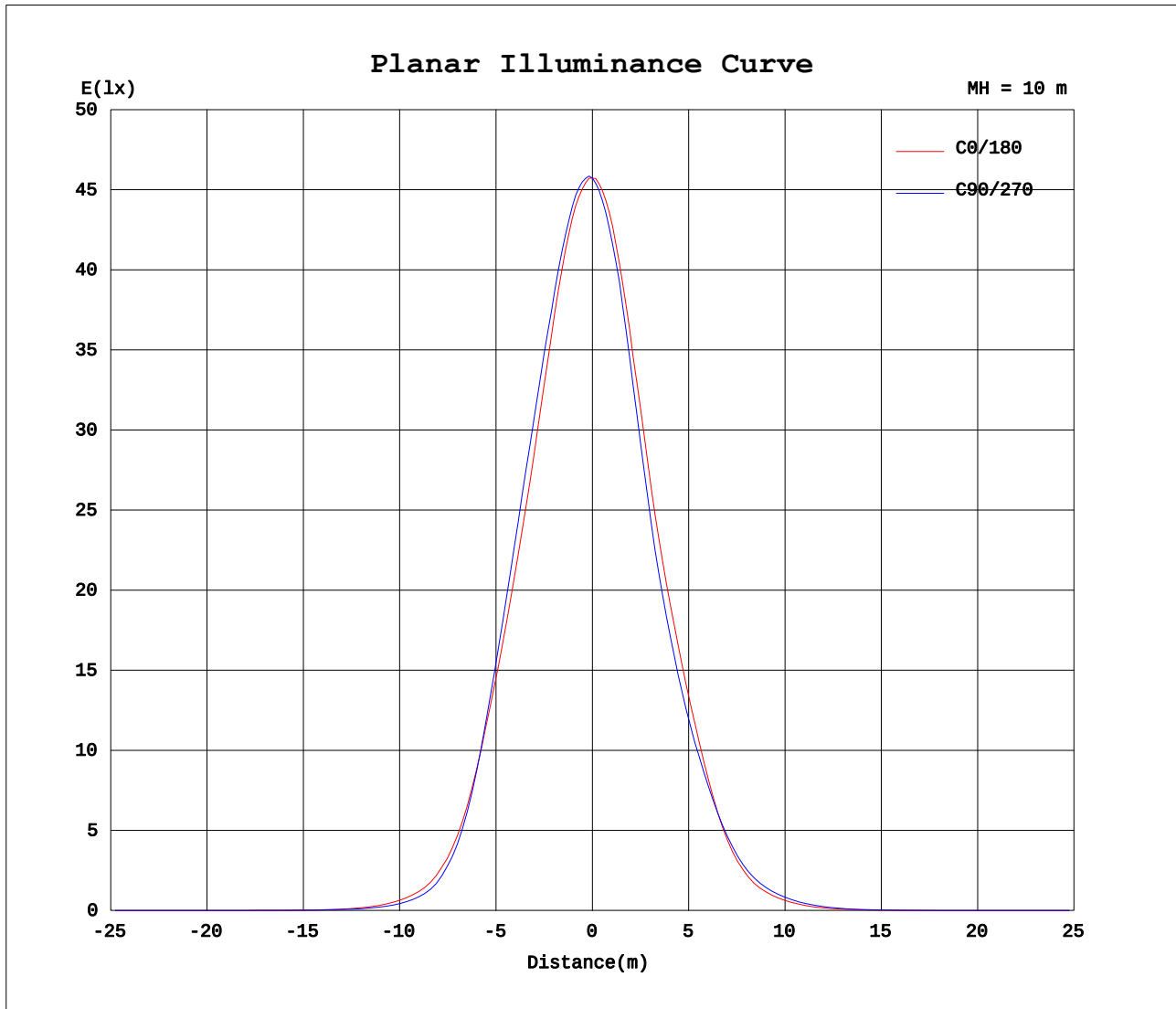
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Planar Illuminance Curve



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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	4573	4573	4573	4573	4575	4571	4573	4572	4581	4578
3.0	4523	4541	4554	4564	4565	4570	4567	4571	4556	4550
6.0	4388	4424	4439	4464	4468	4477	4463	4461	4432	4420
9.0	4148	4204	4231	4263	4270	4283	4267	4257	4211	4183
12.0	3835	3904	3946	3985	3996	4018	3999	3986	3925	3888
15.0	3483	3589	3641	3691	3712	3738	3708	3687	3606	3545
18.0	3105	3218	3290	3362	3380	3405	3371	3348	3248	3171
21.0	2741	2853	2924	2991	3006	3033	2993	2976	2891	2820
24.0	2362	2463	2522	2573	2588	2600	2569	2546	2490	2437
27.0	1975	2050	2077	2132	2112	2131	2086	2092	2044	2024
30.0	1544	1599	1582	1623	1591	1595	1559	1567	1550	1542
33.0	1187	1124	1097	1121	1080	1081	1044	1051	1053	1061
36.0	738.2	734.1	697.8	705.5	666.7	662.7	637.2	641.9	652.8	672.1
39.0	467.9	452.9	417.8	417.5	387.5	379.7	361.8	367.3	380.8	397.6
42.0	291.4	275.7	250.8	243.5	224.8	218.4	210.4	217.0	228.0	241.7
45.0	182.4	170.7	151.0	146.5	130.6	128.8	122.9	127.4	134.4	145.2
48.0	105.4	96.44	85.01	80.27	73.25	71.71	70.62	71.12	74.59	79.29
51.0	58.31	52.19	46.66	44.72	41.49	41.28	40.05	40.38	40.91	42.72
54.0	30.60	27.86	24.61	24.46	22.92	23.38	22.57	22.36	21.74	22.70
57.0	14.95	13.69	12.57	12.75	12.51	13.29	12.86	12.35	11.65	12.10
60.0	7.617	7.220	6.866	6.855	7.030	7.788	7.698	7.291	6.648	6.744
63.0	4.372	4.152	4.032	3.999	4.105	4.514	4.701	4.556	4.004	3.996
66.0	2.492	2.360	2.247	2.279	2.374	2.550	2.602	2.606	2.210	2.172
69.0	1.066	0.9248	0.8768	0.9027	0.9119	0.9417	0.9342	1.025	0.8455	0.8535
72.0	0.5323	0.5002	0.4644	0.4391	0.4361	0.4326	0.4537	0.4676	0.4930	0.5199
75.0	0.3962	0.3649	0.3524	0.3278	0.3306	0.3256	0.3524	0.3583	0.3765	0.3911
78.0	0.2999	0.2753	0.2757	0.2469	0.2604	0.2447	0.2757	0.2688	0.2846	0.2906
81.0	0.2429	0.2163	0.2188	0.1945	0.2144	0.1945	0.2232	0.2120	0.2297	0.2229
84.0	0.1991	0.1749	0.1881	0.1661	0.1859	0.1661	0.1882	0.1704	0.1881	0.1792
87.0	0.1685	0.1531	0.1619	0.1596	0.1706	0.1618	0.1662	0.1552	0.1619	0.1509
90.0	0.1552	0.1552	0.1574	0.1640	0.1705	0.1684	0.1596	0.1596	0.1531	0.1531

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4585	4587	4573	4573	4573	4573	4575	4571	4573	4572
3.0	4537	4523	4512	4489	4480	4459	4456	4442	4449	4453
6.0	4384	4358	4343	4299	4281	4243	4237	4221	4230	4232
9.0	4128	4090	4058	3989	3959	3915	3910	3887	3910	3922
12.0	3813	3745	3690	3601	3548	3498	3492	3465	3497	3508
15.0	3449	3374	3307	3197	3140	3069	3056	3029	3062	3081
18.0	3057	2966	2882	2765	2707	2640	2622	2596	2625	2645
21.0	2705	2604	2515	2414	2351	2283	2267	2241	2264	2281
24.0	2337	2245	2174	2073	2021	1965	1943	1916	1931	1945
27.0	1934	1870	1817	1738	1701	1639	1636	1606	1628	1623
30.0	1481	1462	1444	1390	1375	1335	1340	1326	1339	1337
33.0	1028	1026	1045	1028	1040	1011	1028	1019	1040	1036
36.0	653.8	667.0	698.5	700.3	725.3	708.4	732.1	733.6	756.6	755.3
39.0	396.2	419.2	447.9	457.0	481.8	474.0	493.0	501.7	518.6	520.2
42.0	243.1	260.8	285.8	296.4	317.0	315.0	331.2	338.7	352.2	352.2
45.0	146.1	159.2	179.6	190.4	205.4	206.1	218.9	224.6	236.8	236.5
48.0	81.54	88.97	103.0	111.1	123.9	124.4	134.3	137.7	146.1	144.9
51.0	43.35	47.43	53.27	59.06	63.25	64.60	71.05	72.53	77.53	77.55
54.0	22.60	24.86	27.76	28.52	31.82	33.58	36.68	37.46	39.75	40.16
57.0	11.74	12.49	13.66	13.93	15.19	16.65	18.17	18.03	19.06	19.57
60.0	6.559	6.632	7.079	7.360	7.828	8.758	9.205	8.924	9.372	9.373
63.0	3.755	3.872	4.082	4.223	4.640	5.335	5.604	5.446	5.551	5.347
66.0	2.087	2.205	2.368	2.398	2.564	3.117	3.328	3.270	3.302	3.095
69.0	0.8539	0.9866	1.103	1.134	1.238	1.556	1.703	1.659	1.762	1.635
72.0	0.5521	0.6072	0.6461	0.6655	0.6963	0.7137	0.7399	0.7289	0.7291	0.7028
75.0	0.4225	0.4501	0.4652	0.4836	0.4958	0.5165	0.5221	0.5253	0.5177	0.5012
78.0	0.3217	0.3343	0.3363	0.3567	0.3538	0.3764	0.3756	0.3852	0.3734	0.3677
81.0	0.2516	0.2512	0.2336	0.2604	0.2554	0.2736	0.2620	0.2779	0.2620	0.2648
84.0	0.1991	0.1923	0.1593	0.1817	0.1637	0.1883	0.1746	0.1927	0.1725	0.1904
87.0	0.1684	0.1531	0.0983	0.1204	0.1004	0.1226	0.1069	0.1313	0.1070	0.1270
90.0	0.1531	0.1531	0.0831	0.0853	0.0831	0.0853	0.0831	0.0875	0.0853	0.0875

G/C	300.0	315.0	330.0	345.0
0.0	4581	4578	4585	4587
3.0	4471	4477	4497	4515
6.0	4262	4283	4327	4355
9.0	3966	3999	4061	4106
12.0	3581	3616	3706	3761
15.0	3161	3217	3322	3395
18.0	2731	2798	2901	2992
21.0	2359	2429	2538	2626

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-08-07

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

24.0	2009	2074	2179	2259
27.0	1687	1732	1830	1897
30.0	1378	1414	1479	1522
33.0	1061	1074	1117	1124
36.0	767.1	765.5	785.2	774.6
39.0	522.3	519.6	520.3	506.5
42.0	348.4	338.8	336.9	323.9
45.0	232.4	223.8	222.5	207.4
48.0	143.9	136.2	134.9	124.7
51.0	76.64	73.57	72.19	66.14
54.0	40.25	38.38	38.91	36.16
57.0	19.52	18.40	19.11	17.78
60.0	9.391	9.021	9.329	8.787
63.0	5.331	5.112	5.206	4.988
66.0	3.108	2.935	3.045	2.898
69.0	1.607	1.454	1.572	1.373
72.0	0.6875	0.6479	0.6263	0.5758
75.0	0.4827	0.4661	0.4390	0.4180
78.0	0.3451	0.3436	0.3167	0.3107
81.0	0.2467	0.2495	0.2293	0.2319
84.0	0.1659	0.1773	0.1594	0.1708
87.0	0.1048	0.1226	0.1026	0.1226
90.0	0.0831	0.0853	0.0853	0.0875

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-08-07

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks: