

LED Tracklight FOCUS M-42W-930-50D



Light Output Ratio:	100.0%	
Luminaire Power:	41.24 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

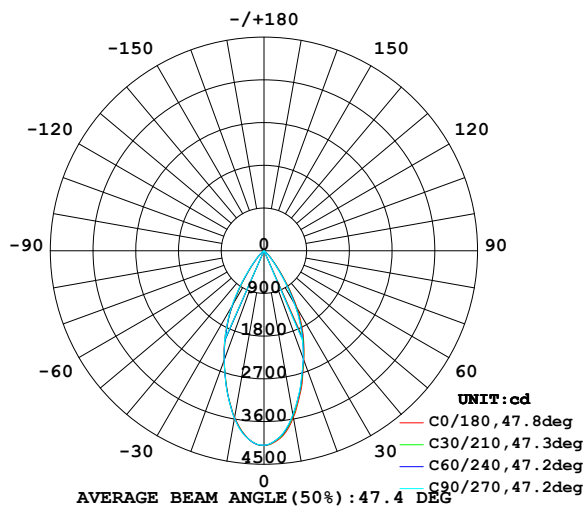
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

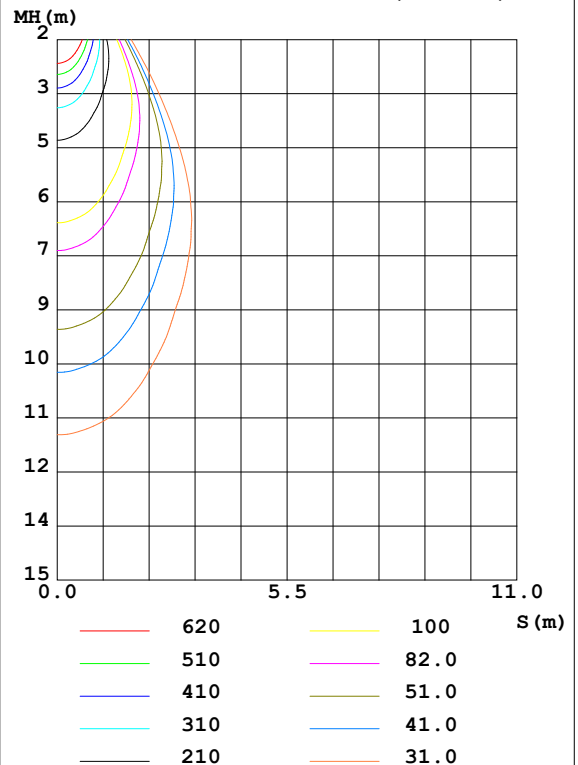
Test:U:220.6V I:0.1987A P:41.24W PF:0.9405 Lamp Flux:2703.26x1 lm		
NAME: FOCUS M-42W-930-50D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 90mm*H220mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.56 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	4103	S/MH (C0/180)	0.73
NOMINAL POWER (W)	42	LOR (%)	100.0	S/MH (C90/270)	0.73
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2703.3	η UP,DN (C0-180)	0.0,49.2
NOMINAL FLUX (lm)	2703.26	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.8
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)



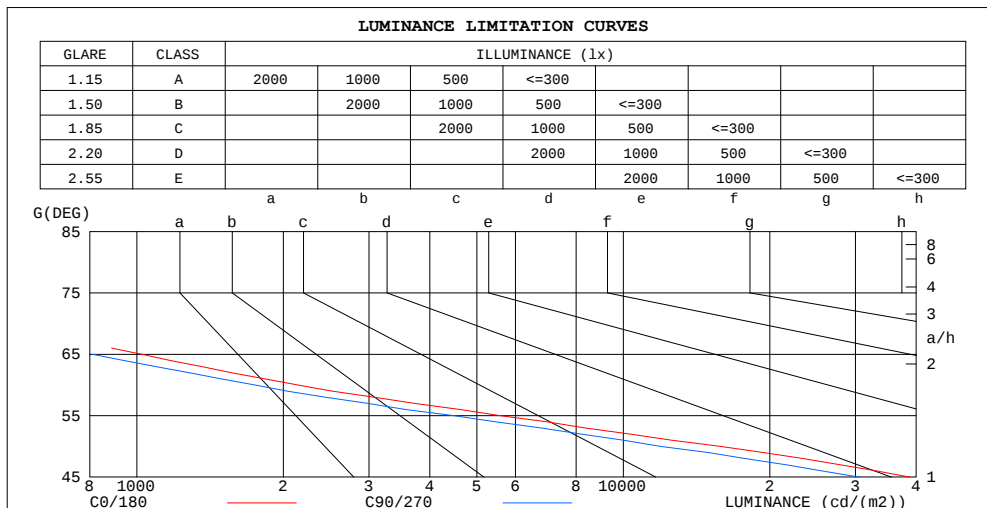
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γ Range: 0 - 90DEG
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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

**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	3569	3533	3508	3524	3566	3575	3589	3590	0- 10	364.6	364.6	13.5,13.5
20	2462	2450	2419	2430	2461	2431	2457	2467	10- 20	833.7	1198	44.3,44.3
30	1401	1339	1269	1292	1333	1308	1374	1416	20- 30	866.4	2065	76.4,76.4
40	375.5	347.0	307.8	316.2	341.8	356.0	383.7	384.6	30- 40	480.3	2545	94.1,94.1
50	64.72	55.77	48.76	50.78	58.20	64.73	68.01	71.25	40- 50	133.6	2679	99.1,99.1
60	6.804	6.360	5.552	5.704	6.642	6.629	6.941	6.723	50- 60	21.20	2700	99.9,99.9
70	0.6863	0.6661	0.6372	0.6466	0.6790	0.6884	0.8241	0.7172	60- 70	2.790	2703	100,100
80	0.2254	0.2098	0.2495	0.2316	0.2140	0.2363	0.2206	0.2298	70- 80	0.4153	2703	100,100
90	0.1443	0.1377	0.1509	0.1443	0.0743	0.0743	0.0765	0.0787	80- 90	0.1663	2703	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(°)	C0/180	C90/270
85	300	320
80	204	226
75	214	230
70	316	293
65	1023	809
60	2140	1746
55	5581	4485
50	15835	11930
45	38853	30553

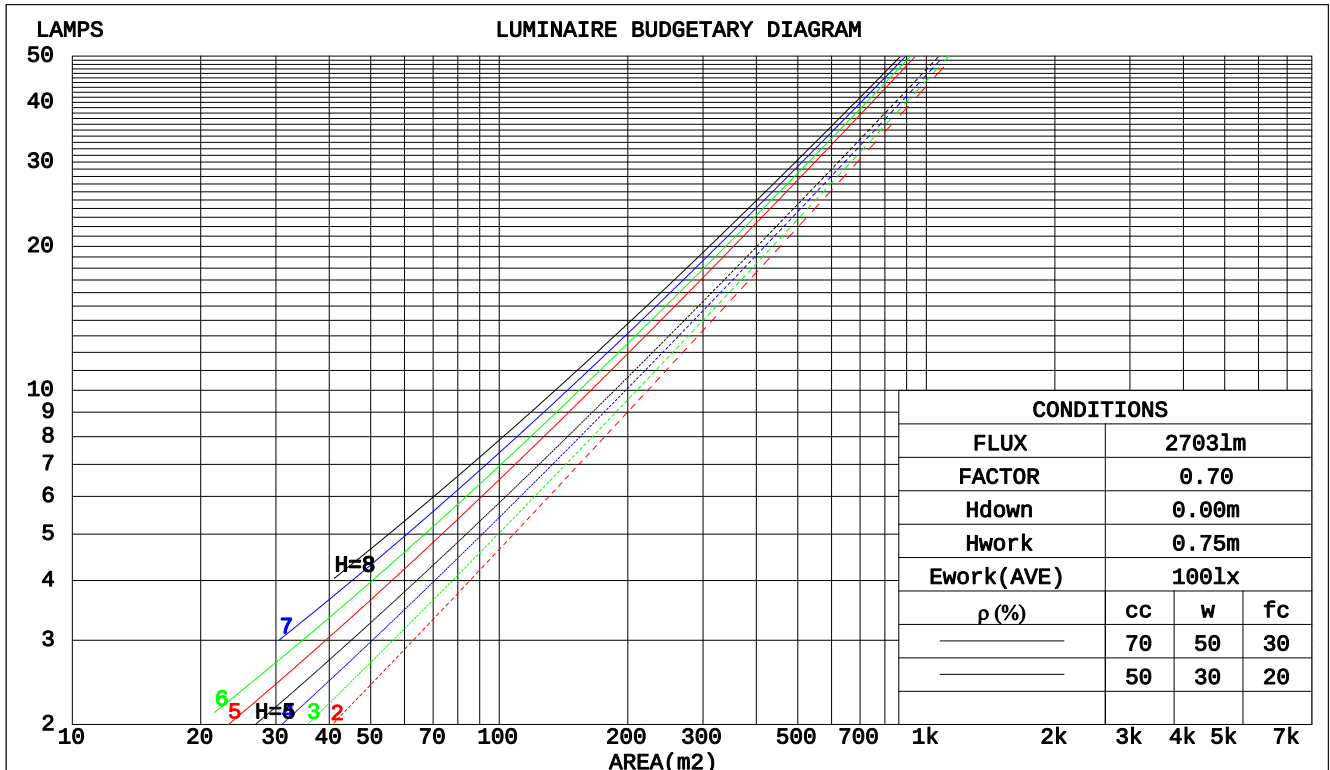
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γ Range: 0 - 90DEG
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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.1987A P:41.24W PF:0.9405 Lamp Flux:2703.26x1 lm		
NAME: FOCUS M-42W-930-50D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi 90\text{mm} \times \text{H}220\text{mm}$	
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	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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.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	.80	.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	.77	.73	.70	.76	.73	.70	.68
7.0	.77	.71	.67	.76	.71	.67	.75	.70	.66	.74	.69	.66	.72	.69	.66	.64
8.0	.73	.67	.63	.72	.67	.63	.71	.66	.63	.70	.65	.62	.69	.65	.62	.61
9.0	.69	.63	.59	.68	.63	.59	.67	.63	.59	.67	.62	.59	.66	.62	.59	.57
10.0	.65	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.63	.59	.56	.54



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WEC AND CCEC

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SPEC.:3000K	DIM.: ϕ 90mm*H220mm	
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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	.170	.097	.031	.164	.093	.030	.151	.087	.028	.139	.080	.026	.129	.075	.024		
2.0	.163	.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	.148	.077	.023	.143	.075	.022	.136	.072	.021	.129	.069	.021	.122	.066	.020		
5.0	.141	.072	.021	.137	.070	.021	.130	.068	.020	.124	.066	.019	.118	.063	.019		
6.0	.134	.067	.019	.131	.066	.019	.125	.064	.019	.120	.062	.018	.115	.060	.018		
7.0	.129	.064	.018	.126	.063	.018	.121	.061	.018	.116	.059	.017	.111	.058	.017		
8.0	.123	.060	.017	.121	.059	.017	.116	.058	.017	.112	.057	.016	.108	.055	.016		
9.0	.118	.057	.016	.116	.057	.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		

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	.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	.059	.032	.085	.051	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.094	.054	.028	.081	.047	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	

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

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.1987A P:41.24W PF:0.9405 Lamp Flux:2703.26x1 lm										
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SPEC.:3000K					DIM.: φ90mm*H220mm					
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	21.7	21.9	20.0	20.9	20.2	21.1	21.2
3H	20.5	21.3	20.7	21.5	21.7	19.8	20.7	20.1	20.9	21.1
4H	20.4	21.2	20.7	21.4	21.6	19.7	20.5	20.0	20.7	21.0
6H	20.3	21.0	20.6	21.3	21.5	19.7	20.4	20.0	20.6	20.9
8H	20.3	21.0	20.6	21.2	21.5	19.6	20.3	19.9	20.6	20.8
12H	20.2	20.9	20.5	21.2	21.4	19.6	20.2	19.9	20.5	20.8
4H 2H	20.4	21.2	20.7	21.4	21.6	19.8	20.5	20.0	20.8	21.0
3H	20.2	20.9	20.5	21.2	21.4	19.6	20.2	19.9	20.5	20.8
4H	20.1	20.7	20.5	21.0	21.3	19.5	20.1	19.8	20.4	20.7
6H	20.0	20.6	20.4	20.9	21.2	19.4	19.9	19.8	20.3	20.6
8H	20.0	20.5	20.4	20.8	21.2	19.3	19.8	19.7	20.2	20.5
12H	19.9	20.4	20.3	20.8	21.1	19.3	19.7	19.7	20.1	20.5
8H 4H	20.0	20.5	20.4	20.8	21.2	19.3	19.8	19.7	20.2	20.5
6H	19.9	20.3	20.3	20.7	21.1	19.2	19.6	19.7	20.0	20.4
8H	19.8	20.2	20.3	20.6	21.0	19.2	19.5	19.6	20.0	20.4
12H	19.8	20.1	20.2	20.5	21.0	19.1	19.4	19.6	19.9	20.3
12H 4H	19.9	20.4	20.3	20.8	21.1	19.3	19.7	19.7	20.1	20.5
6H	19.8	20.2	20.3	20.6	21.0	19.2	19.5	19.6	19.9	20.4
8H	19.8	20.1	20.2	20.5	21.0	19.1	19.4	19.6	19.9	20.3
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / -15.9					+ 3.2 / -16.2				
1.5H	+ 5.6 / -12.7					+ 5.4 / -12.1				
2.0H	+ 7.3 / -14.0					+ 6.9 / -13.2				

CIE Pub.117 Corrected 2703 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.5)

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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.288
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Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.1987A P:41.24W PF:0.9405 Lamp Flux:2703.26x1 lm		
NAME: FOCUS M-42W-930-50D	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	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.:3000K	DIM.: ϕ 90mm*H220mm	
MFR.: NEKO LIGHTING AG		

Conical surface Flux(90deg):

2636.1 lm

%lum = 97.5%

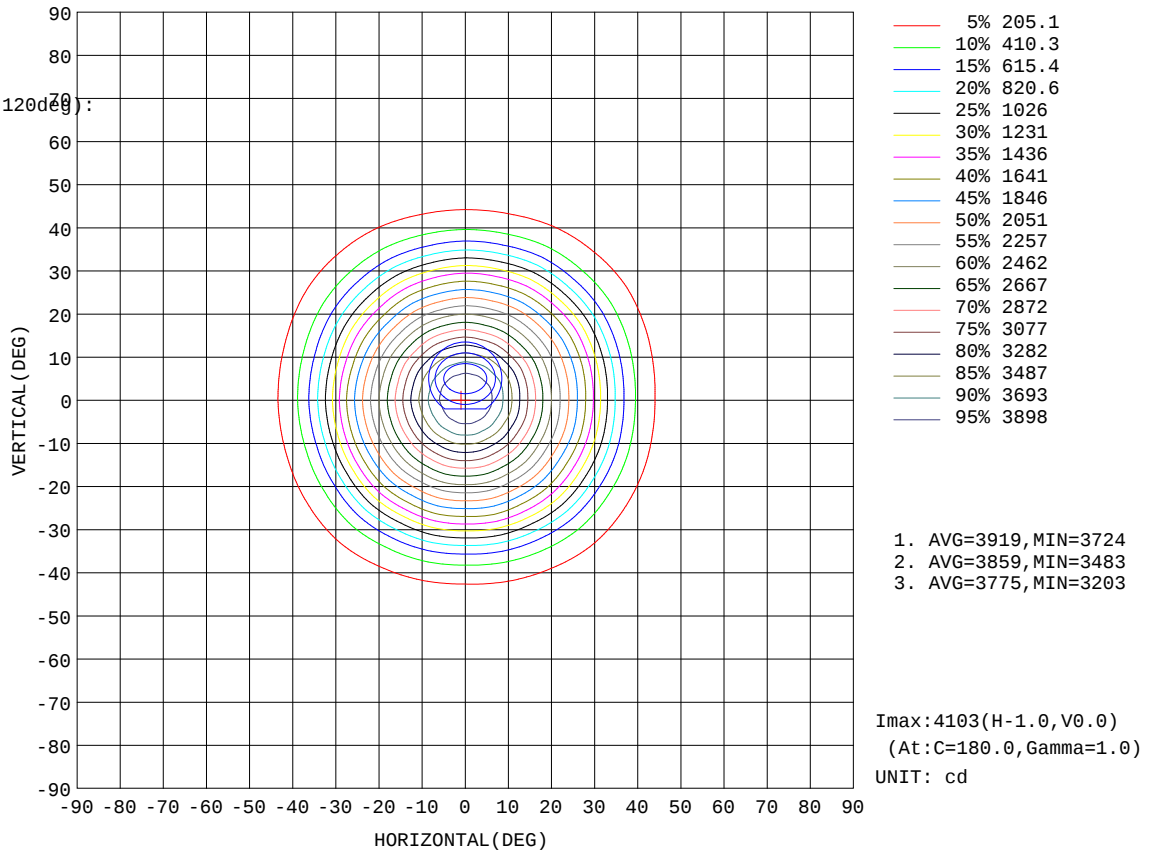
%lamp = 97.5%

Conical surface Flux(120deg):

2699.9 lm

%lum = 99.9%

%lamp = 99.9%



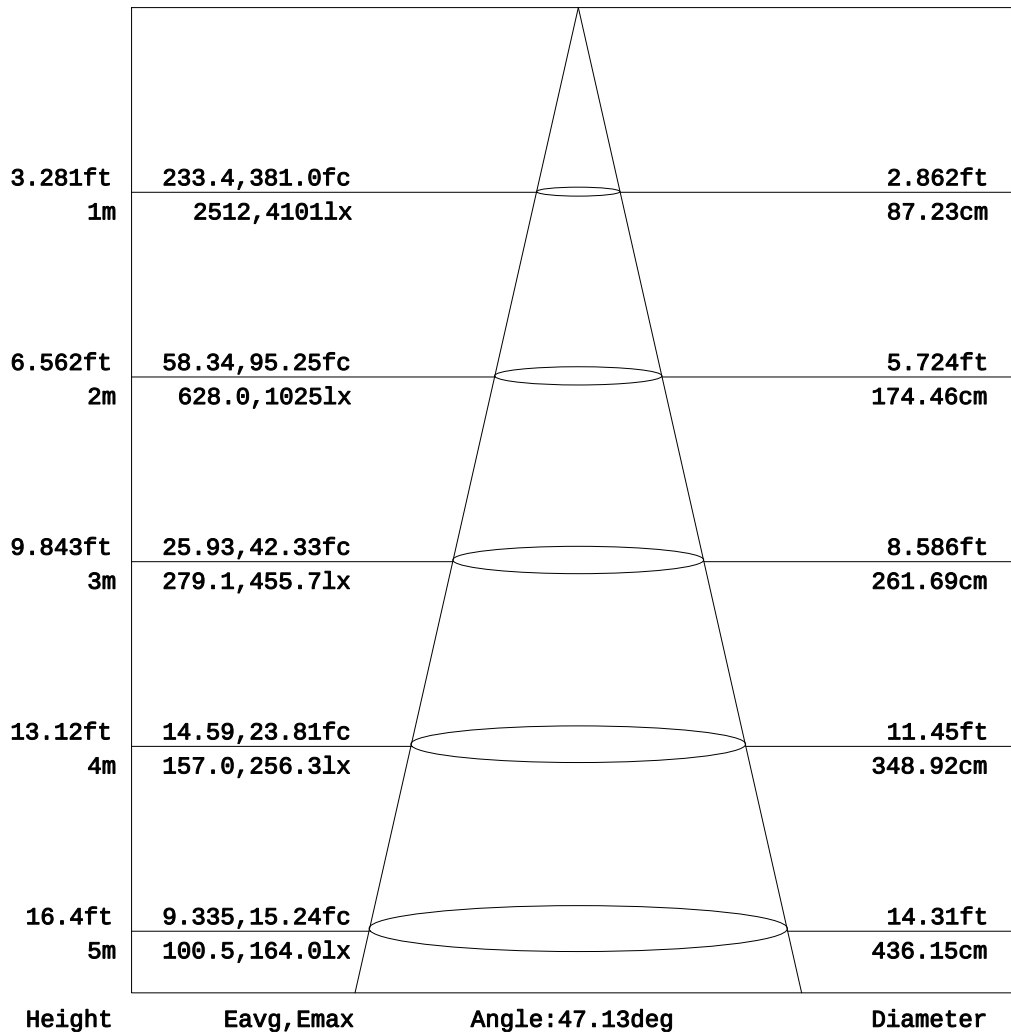
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AAI Figure

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SPEC.:3000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

Flux out:1564 lm



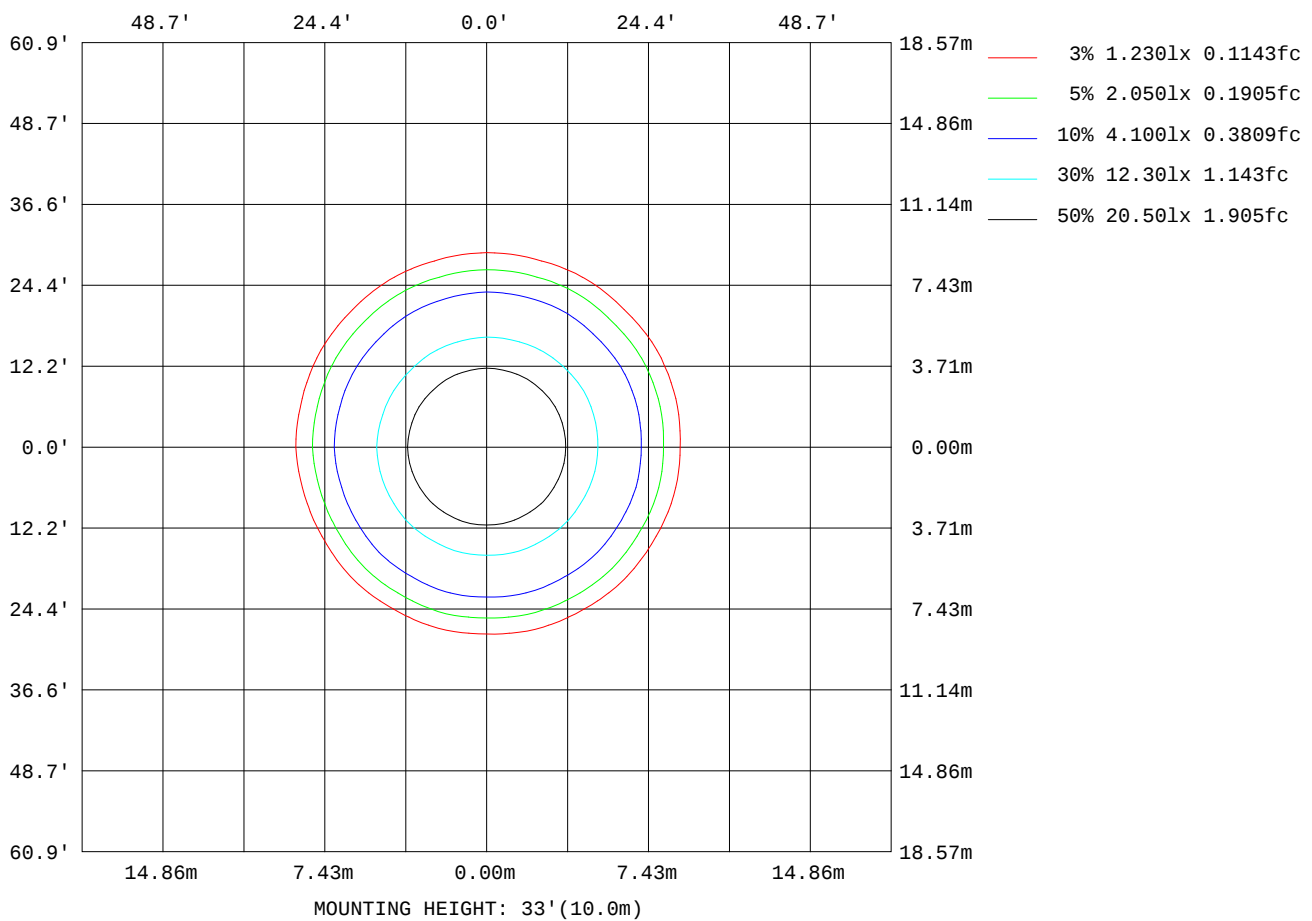
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

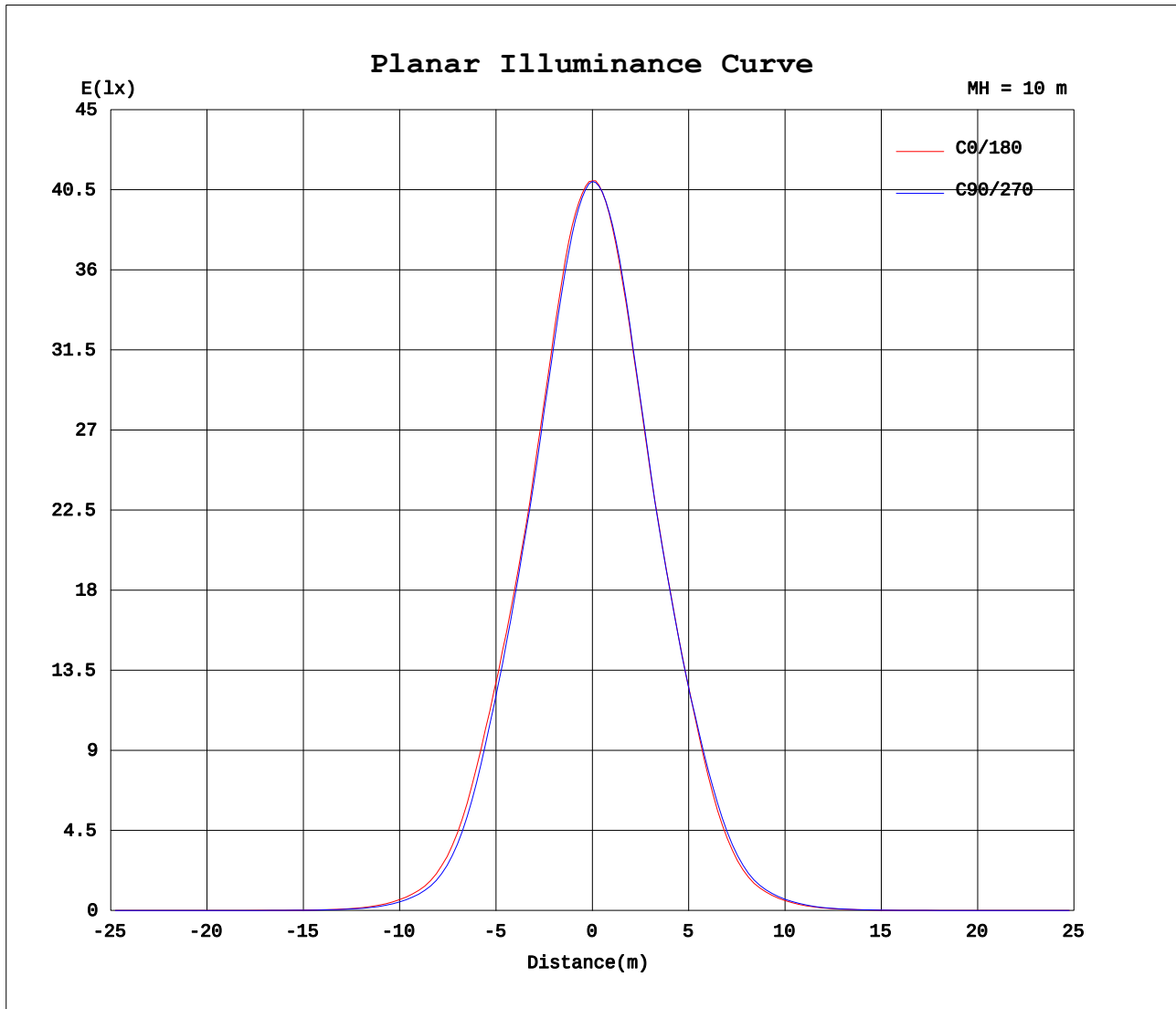
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Planar Illuminance Curve



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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	4100	4100	4097	4097	4096	4095	4097	4094	4094	4091
3.0	4045	4045	4031	4034	4025	4027	4023	4025	4019	4025
6.0	3910	3905	3890	3885	3871	3871	3861	3866	3858	3869
9.0	3669	3664	3636	3637	3614	3619	3607	3618	3609	3623
12.0	3355	3354	3323	3322	3300	3301	3294	3299	3289	3303
15.0	3022	3021	2994	2990	2970	2976	2960	2969	2962	2978
18.0	2666	2660	2644	2650	2629	2638	2624	2636	2630	2644
21.0	2360	2355	2339	2343	2316	2323	2307	2319	2304	2325
24.0	2053	2054	2022	2020	2000	1995	1980	1984	1978	1997
27.0	1750	1726	1694	1695	1660	1672	1634	1655	1636	1669
30.0	1401	1385	1345	1339	1303	1299	1269	1281	1263	1292
33.0	1023	1018	978.3	971.0	931.9	928.5	896.1	910.1	891.9	911.0
36.0	691.3	688.7	653.5	646.5	616.8	609.1	584.2	594.8	591.2	599.4
39.0	440.4	438.6	413.1	408.4	386.2	378.9	361.9	367.6	358.7	371.6
42.0	276.7	274.0	260.0	255.1	241.7	238.0	225.5	230.0	226.3	235.5
45.0	174.7	172.7	161.4	158.7	148.1	145.1	137.4	140.8	136.9	144.5
48.0	99.68	98.28	89.89	87.50	81.48	78.93	75.79	76.83	76.00	79.34
51.0	50.24	49.22	45.75	44.99	42.23	41.24	39.99	40.77	39.61	41.41
54.0	25.98	25.64	23.21	23.16	21.78	21.13	20.38	20.85	20.25	20.92
57.0	12.86	12.99	11.80	11.81	11.29	10.85	10.32	10.35	10.21	10.70
60.0	6.804	7.260	6.456	6.360	6.093	5.919	5.552	5.412	5.351	5.704
63.0	3.921	4.440	3.907	3.826	3.596	3.420	3.152	3.132	3.030	3.114
66.0	2.294	2.576	2.207	2.170	2.008	1.877	1.747	1.759	1.701	1.672
69.0	1.087	1.118	1.093	0.9725	0.8689	0.7813	0.7306	0.7666	0.7307	0.7187
72.0	0.4907	0.4934	0.4885	0.4869	0.4733	0.4827	0.4908	0.4981	0.4950	0.4938
75.0	0.3524	0.3408	0.3524	0.3474	0.3590	0.3540	0.3786	0.3802	0.3809	0.3715
78.0	0.2627	0.2490	0.2670	0.2534	0.2736	0.2665	0.2911	0.2906	0.2933	0.2797
81.0	0.2101	0.1901	0.2079	0.1945	0.2166	0.2010	0.2319	0.2228	0.2254	0.2119
84.0	0.1751	0.1595	0.1729	0.1530	0.1794	0.1639	0.1882	0.1748	0.1816	0.1682
87.0	0.1575	0.1443	0.1531	0.1377	0.1553	0.1443	0.1597	0.1487	0.1531	0.1377
90.0	0.1443	0.1443	0.1465	0.1377	0.1465	0.1465	0.1509	0.1509	0.1443	0.1443

G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4092	4092	4100	4097	4097	4096	4095	4095	4097	4094
3.0	4024	4029	4050	4048	4054	4051	4058	4053	4052	4048
6.0	3868	3874	3898	3895	3907	3904	3911	3903	3914	3909
9.0	3623	3635	3657	3645	3668	3665	3677	3668	3684	3677
12.0	3306	3325	3352	3339	3363	3352	3366	3356	3370	3359
15.0	2979	2996	3018	3003	3024	3016	3031	3023	3040	3023
18.0	2641	2653	2676	2659	2688	2660	2675	2662	2673	2662
21.0	2322	2336	2356	2336	2358	2319	2336	2335	2353	2349
24.0	1994	2009	2031	2010	2000	1979	2010	1997	2032	2028
27.0	1658	1678	1705	1667	1664	1647	1672	1682	1698	1710
30.0	1277	1300	1333	1314	1321	1308	1340	1343	1374	1376
33.0	895.0	913.0	955.6	948.1	962.2	959.5	990.5	992.4	1026	1023
36.0	582.5	600.5	640.3	635.0	655.0	650.4	676.7	676.1	700.0	697.4
39.0	361.1	372.3	402.0	402.7	417.3	418.3	434.5	435.6	447.9	446.7
42.0	230.7	236.7	254.9	255.4	265.3	264.4	277.0	275.8	285.1	281.4
45.0	140.9	146.2	159.7	160.0	168.0	167.8	176.5	175.7	181.0	179.6
48.0	78.22	81.41	89.19	89.83	95.58	95.57	101.3	100.6	104.7	105.3
51.0	40.97	43.63	47.99	48.28	51.09	50.70	52.75	54.06	53.13	56.56
54.0	21.04	22.90	24.89	24.59	26.59	26.45	27.74	26.94	28.04	28.02
57.0	10.64	11.80	12.65	12.30	13.13	13.05	13.32	12.97	13.67	13.57
60.0	5.784	6.348	6.642	6.440	6.814	6.629	6.677	6.659	6.941	6.862
63.0	3.193	3.560	3.769	3.691	3.907	3.764	3.802	3.801	4.052	3.978
66.0	1.640	1.868	1.974	1.933	2.123	2.101	2.128	2.190	2.374	2.280
69.0	0.7170	0.7579	0.8075	0.7654	0.8939	0.9322	0.9569	1.005	1.138	1.057
72.0	0.4972	0.4960	0.5002	0.5037	0.5175	0.5212	0.5326	0.5408	0.5499	0.5474
75.0	0.3830	0.3780	0.3735	0.3830	0.3735	0.3830	0.3757	0.3852	0.3823	0.3873
78.0	0.2911	0.2775	0.2730	0.2867	0.2708	0.2867	0.2708	0.2867	0.2773	0.2889
81.0	0.2298	0.2141	0.1900	0.2079	0.1878	0.2123	0.1943	0.2166	0.1987	0.2188
84.0	0.1816	0.1639	0.1288	0.1489	0.1288	0.1532	0.1353	0.1554	0.1397	0.1576
87.0	0.1488	0.1377	0.0787	0.0986	0.0808	0.1051	0.0873	0.1116	0.0938	0.1116
90.0	0.1377	0.1399	0.0743	0.0765	0.0743	0.0743	0.0743	0.0787	0.0765	0.0787

G/C	300.0	315.0	330.0	345.0
0.0	4094	4091	4092	4092
3.0	4052	4054	4052	4047
6.0	3919	3915	3928	3918
9.0	3696	3685	3704	3690
12.0	3385	3377	3396	3376
15.0	3043	3037	3057	3041
18.0	2678	2674	2695	2677
21.0	2365	2369	2382	2365

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	2061	2067	2085	2071
27.0	1737	1744	1779	1756
30.0	1412	1416	1444	1427
33.0	1055	1050	1073	1052
36.0	722.1	704.9	727.0	712.8
39.0	461.3	451.1	466.4	459.2
42.0	290.3	285.7	297.1	290.5
45.0	186.5	183.0	190.9	185.5
48.0	109.9	107.1	112.5	107.7
51.0	56.32	57.84	56.81	57.35
54.0	29.01	28.18	28.86	27.60
57.0	14.00	13.41	14.09	13.49
60.0	6.839	6.723	6.832	6.681
63.0	3.945	3.897	3.921	3.787
66.0	2.263	2.225	2.254	2.197
69.0	1.092	1.005	1.079	1.042
72.0	0.5434	0.5210	0.5129	0.5124
75.0	0.3713	0.3764	0.3517	0.3589
78.0	0.2708	0.2801	0.2556	0.2648
81.0	0.1987	0.2122	0.1856	0.1991
84.0	0.1397	0.1576	0.1311	0.1510
87.0	0.0939	0.1116	0.0917	0.1116
90.0	0.0765	0.0787	0.0787	0.0831

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: