

Low Voltage Track System Module ML26-PS55-14W-930-24



Light Output Ratio:	100.0%	
Luminaire Power:	13.59 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: 2019-04-28

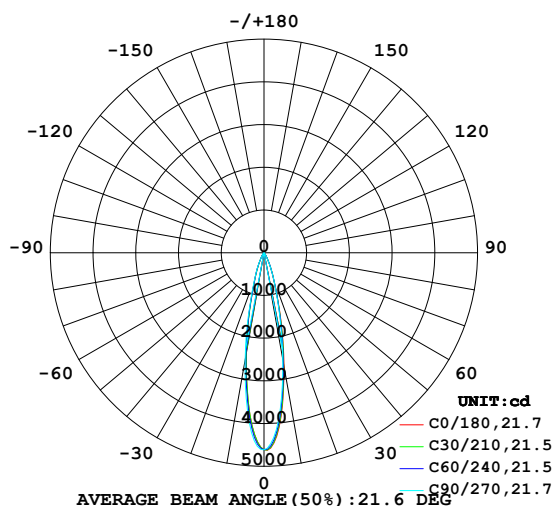
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

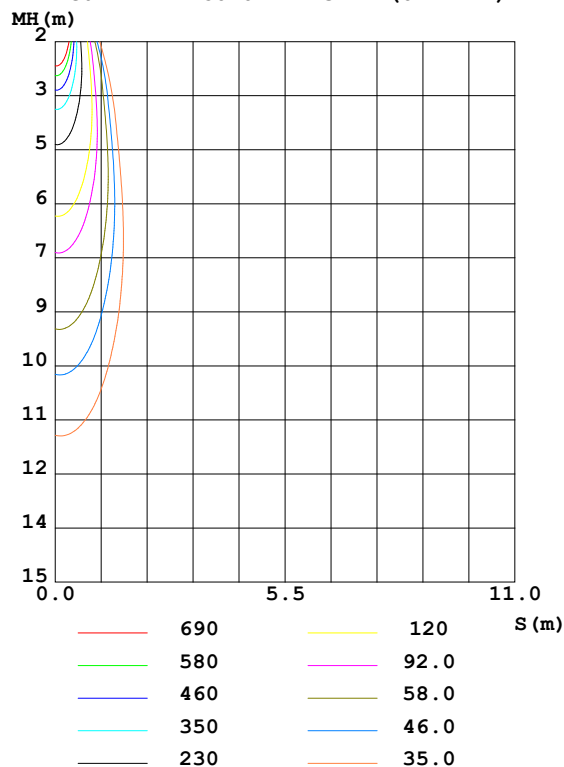
Test:U:48.00V I:0.2832A P:13.59W PF:1.000 Freq:0Hz Lamp Flux:924.573x1 lm		
NAME: ML26-PS55-14W-930-24	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: ϕ 55mm*H180mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.02 lm/W			
MODEL	CITIZEN-3000K	I _{max} (cd)	4637	S/MH (C0/180)	0.35
NOMINAL POWER (W)	14	LOR (%)	100.0	S/MH (C90/270)	0.37
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	924.57	η UP,DN (C0-180)	0.0,50.5
NOMINAL FLUX (lm)	924.573	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	48	η down (%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2708	2675	2543	2463	2397	2364	2561	2699	0- 10	330.1	330.1	35.7,35.7
20	677.1	677.1	669.5	659.1	612.7	579.8	623.5	684.2	10- 20	374.5	704.6	76.2,76.2
30	153.7	159.4	135.0	126.9	138.1	139.0	139.1	135.4	20- 30	151.9	856.5	92.6,92.6
40	44.75	43.84	37.30	35.17	39.76	41.22	38.26	37.66	30- 40	47.64	904.1	97.8,97.8
50	10.69	10.20	7.863	8.225	8.533	8.669	8.877	8.926	40- 50	16.38	920.5	99.6,99.6
60	1.423	1.284	1.035	1.162	1.213	1.197	1.274	1.352	50- 60	3.495	924.0	99.9,99.9
70	0.1602	0.1355	0.1642	0.1504	0.1358	0.1511	0.1485	0.1746	60- 70	0.4303	924.4	100,100
80	0.0768	0.0547	0.0744	0.0566	0.0460	0.0613	0.0502	0.0742	70- 80	0.1068	924.5	100,100
90	0.0307	0.0306	0.0328	0.0305	0.0175	0.0175	0.0175	0.0174	80- 90	0.0423	924.6	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		

Conical surface Flux(90deg): 914.78 lm

%lum = 98.9%

%lamp = 98.9%

Conical surface Flux(120deg): 923.99 lm

%lum = 99.9%

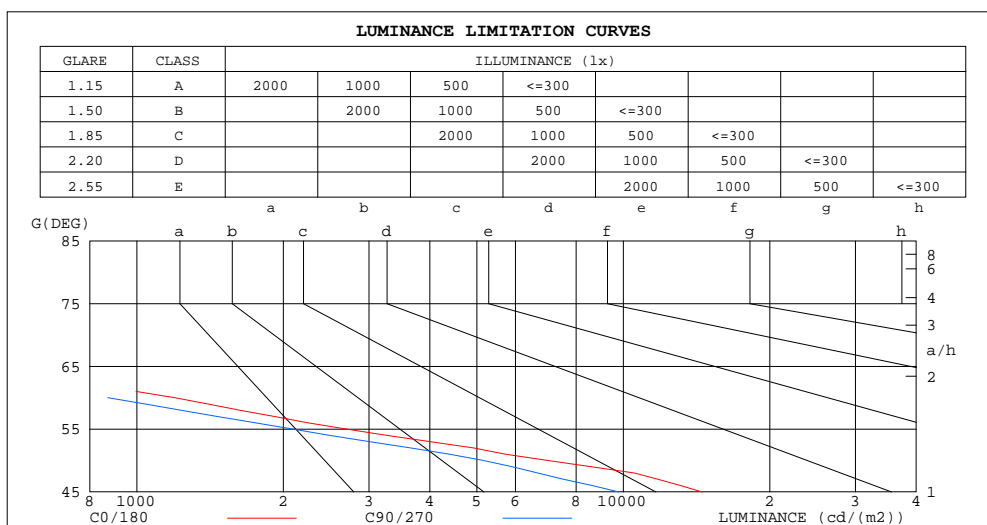
%lamp = 99.9%

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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:

LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.: ϕ 55mm*H180mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	243	243
80	186	181
75	178	175
70	197	202
65	307	280
60	1196	871
55	2695	2091
50	6986	5151
45	14524	9782

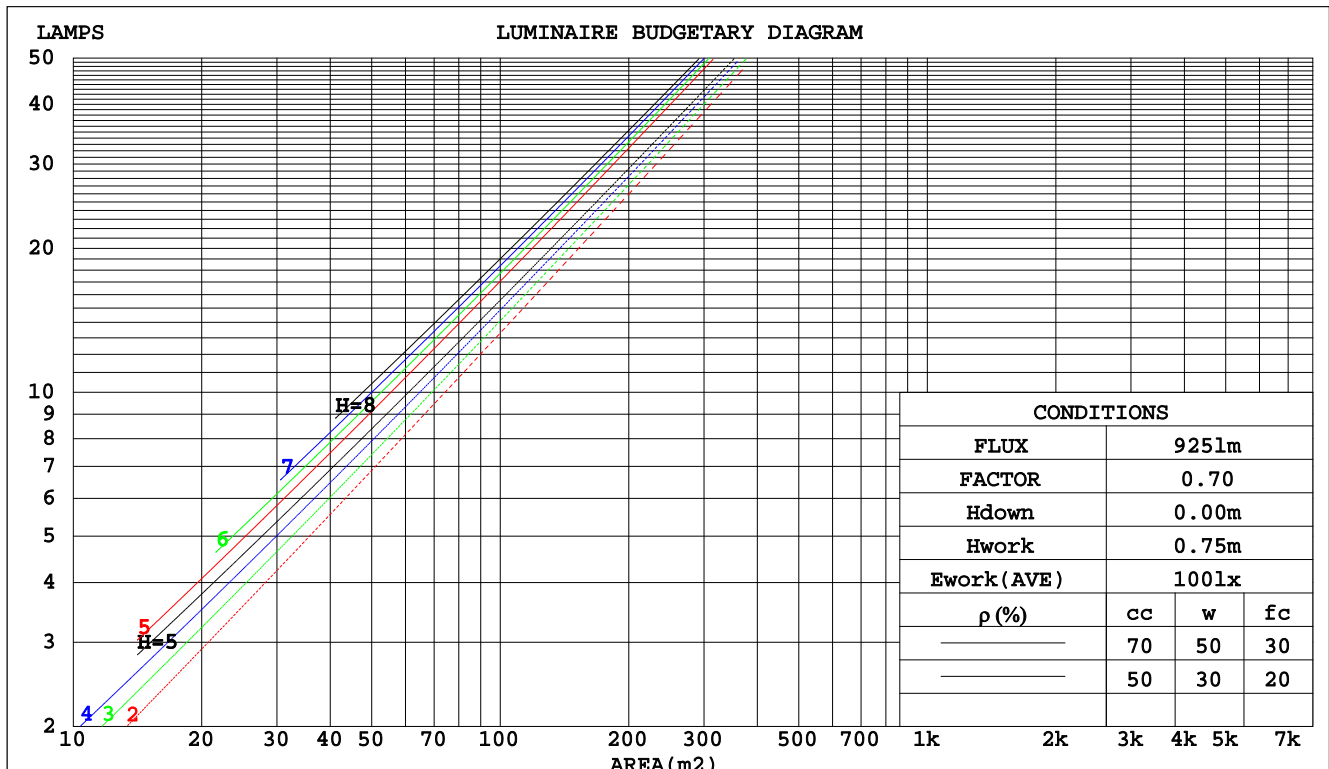
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.: $\phi 55\text{mm} \times \text{H}180\text{mm}$	
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	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.07	1.04	1.02	1.06	1.03	1.01	1.03	1.00	.98	.00	.98	.96	.97	.96	.94	.93
3.0	1.03	.99	.96	1.01	.98	.95	.99	.96	.94	.97	.94	.92	.94	.93	.91	.90
4.0	.98	.94	.91	.97	.94	.91	.95	.92	.90	.94	.91	.89	.92	.90	.88	.87
5.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.91	.88	.86	.89	.87	.85	.84
6.0	.91	.87	.84	.91	.87	.84	.89	.86	.83	.88	.85	.83	.87	.84	.82	.81
7.0	.88	.84	.81	.88	.84	.81	.87	.83	.80	.86	.82	.80	.85	.82	.80	.79
8.0	.85	.81	.78	.85	.81	.78	.84	.80	.78	.83	.80	.78	.82	.80	.77	.76
9.0	.83	.79	.76	.82	.79	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.74
10.0	.81	.76	.74	.80	.76	.74	.79	.76	.73	.79	.76	.73	.78	.75	.73	.72



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WEC AND CCEC

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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	.139	.079	.025	.132	.075	.024	.120	.069	.022	.108	.063	.020	.098	.057	.018	
2.0	.129	.071	.022	.124	.068	.021	.113	.063	.020	.104	.058	.018	.095	.054	.017	
3.0	.121	.064	.019	.116	.062	.019	.108	.058	.018	.100	.055	.017	.092	.051	.016	
4.0	.113	.059	.017	.110	.057	.017	.102	.054	.016	.096	.051	.015	.089	.049	.015	
5.0	.107	.054	.016	.104	.053	.015	.097	.051	.015	.092	.048	.014	.086	.046	.014	
6.0	.101	.051	.015	.098	.050	.014	.093	.048	.014	.088	.046	.013	.084	.044	.013	
7.0	.096	.048	.013	.094	.047	.013	.089	.045	.013	.085	.043	.013	.081	.042	.012	
8.0	.092	.045	.013	.090	.044	.012	.086	.043	.012	.082	.041	.012	.078	.040	.012	
9.0	.088	.042	.012	.086	.042	.012	.082	.041	.012	.079	.040	.011	.076	.038	.011	
10.0	.084	.040	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011	

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	.168	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.136	.113	.095	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.106	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.113	.086	.066	.097	.074	.057	.067	.052	.040	.039	.030	.024	.012	.010	.008	
6.0	.104	.076	.055	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.097	.068	.047	.083	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.090	.061	.041	.078	.053	.035	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.085	.055	.035	.073	.048	.031	.050	.034	.022	.029	.020	.013	.010	.007	.004	
10.0	.080	.050	.031	.069	.044	.027	.048	.031	.019	.028	.018	.011	.009	.006	.004	

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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:

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.2832A P:13.59W PF:1.000 Freq:0Hz Lamp Flux:924.573x1 lm										
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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	13.1	13.8	13.3	13.9	14.1	12.4	13.1	12.6	13.2	13.4
3H	12.9	13.6	13.2	13.7	13.9	12.3	12.9	12.5	13.1	13.3
4H	12.9	13.5	13.1	13.7	13.9	12.2	12.8	12.5	13.0	13.2
6H	12.8	13.3	13.1	13.6	13.8	12.1	12.7	12.4	12.9	13.1
8H	12.7	13.3	13.0	13.5	13.8	12.1	12.6	12.4	12.9	13.1
12H	12.7	13.2	13.0	13.5	13.7	12.0	12.6	12.3	12.8	13.1
4H 2H	12.9	13.5	13.1	13.7	13.9	12.2	12.8	12.5	13.0	13.2
3H	12.7	13.2	13.0	13.5	13.7	12.0	12.6	12.4	12.8	13.1
4H	12.6	13.1	12.9	13.4	13.7	11.9	12.4	12.3	12.7	13.0
6H	12.5	12.9	12.9	13.3	13.6	11.8	12.3	12.2	12.6	12.9
8H	12.4	12.8	12.8	13.2	13.5	11.8	12.2	12.2	12.5	12.9
12H	12.4	12.8	12.8	13.1	13.5	11.7	12.1	12.1	12.5	12.9
8H 4H	12.4	12.8	12.8	13.2	13.5	11.8	12.2	12.2	12.5	12.9
6H	12.3	12.7	12.8	13.1	13.5	11.7	12.0	12.1	12.4	12.8
8H	12.3	12.6	12.7	13.0	13.4	11.6	11.9	12.1	12.3	12.8
12H	12.2	12.5	12.7	12.9	13.4	11.6	11.8	12.0	12.2	12.7
12H 4H	12.4	12.8	12.8	13.1	13.5	11.7	12.1	12.1	12.5	12.9
6H	12.3	12.6	12.7	13.0	13.4	11.6	11.9	12.1	12.3	12.8
8H	12.2	12.5	12.7	12.9	13.4	11.6	11.8	12.0	12.2	12.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / -12.4					+ 2.5 / -13.3				
1.5H	+ 4.5 / - 9.6					+ 4.1 / - 9.1				
2.0H	+ 6.7 / -14.5					+ 5.6 / -14.5				

CIE Pub.117, 924.6 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.3$)

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UTILIZATION FACTORS TABLE

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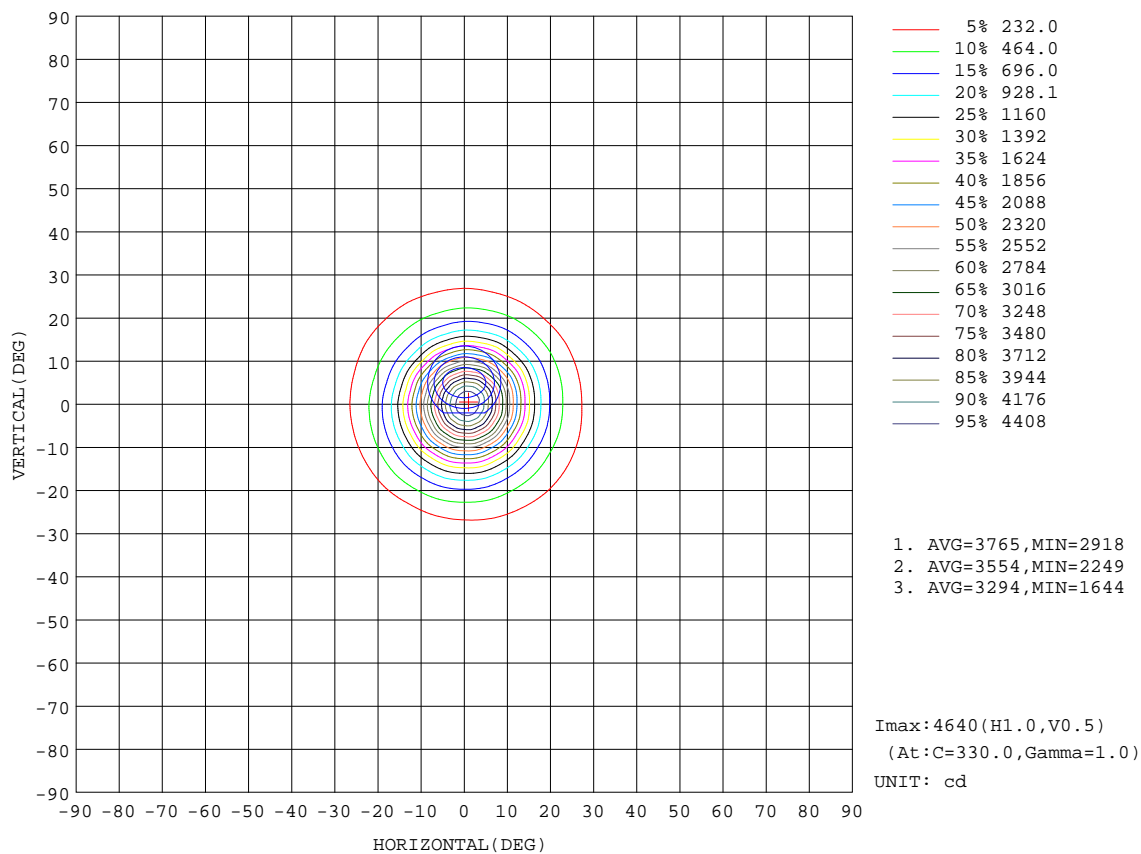
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(\text{RI}) \times \text{RCR} = 5$									
$k = 0.60$	90	84	81	90	84	81	89	84	81	77
0.80	97	92	89	97	92	88	95	91	88	85
1.00	101	96	93	100	96	92	99	95	92	88
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	107	104	102	96
3.00	112	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	114	112	113	112	110	110	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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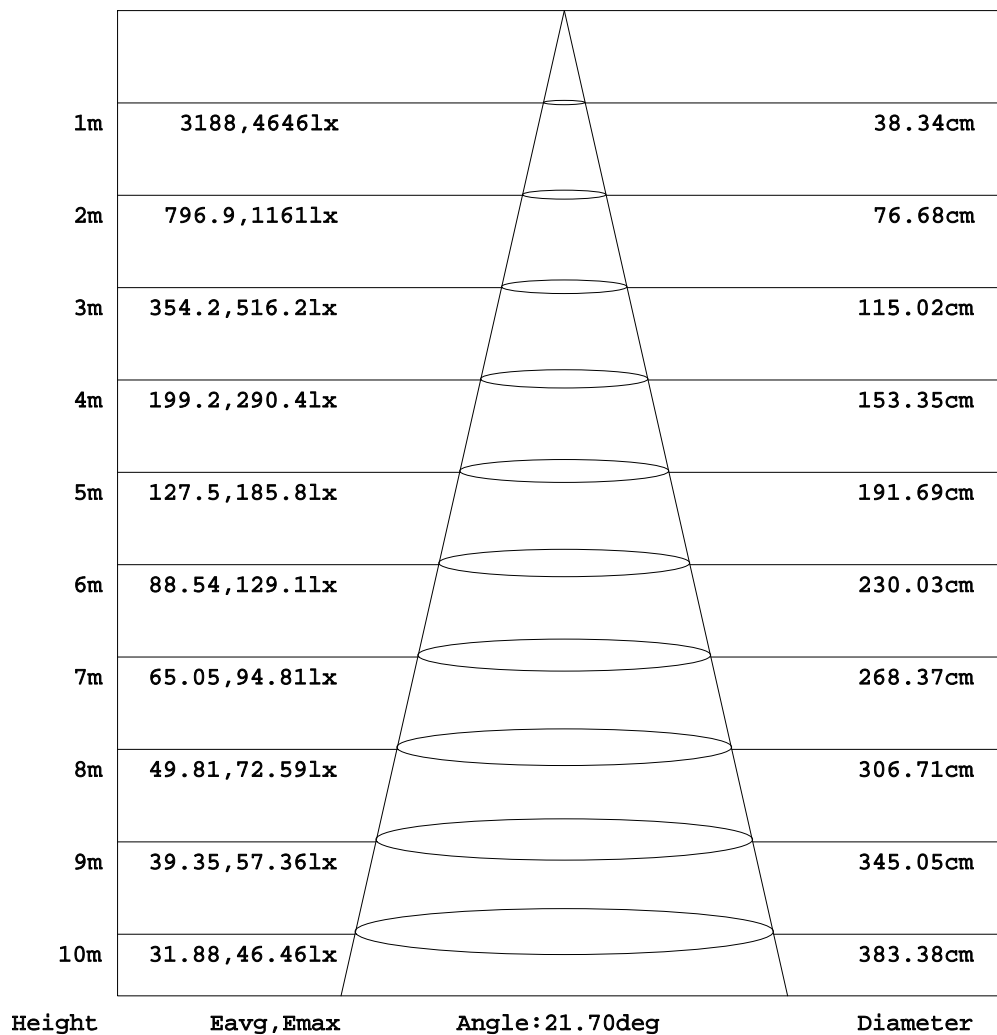
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AAI Figure

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Flux out:378.4 lm



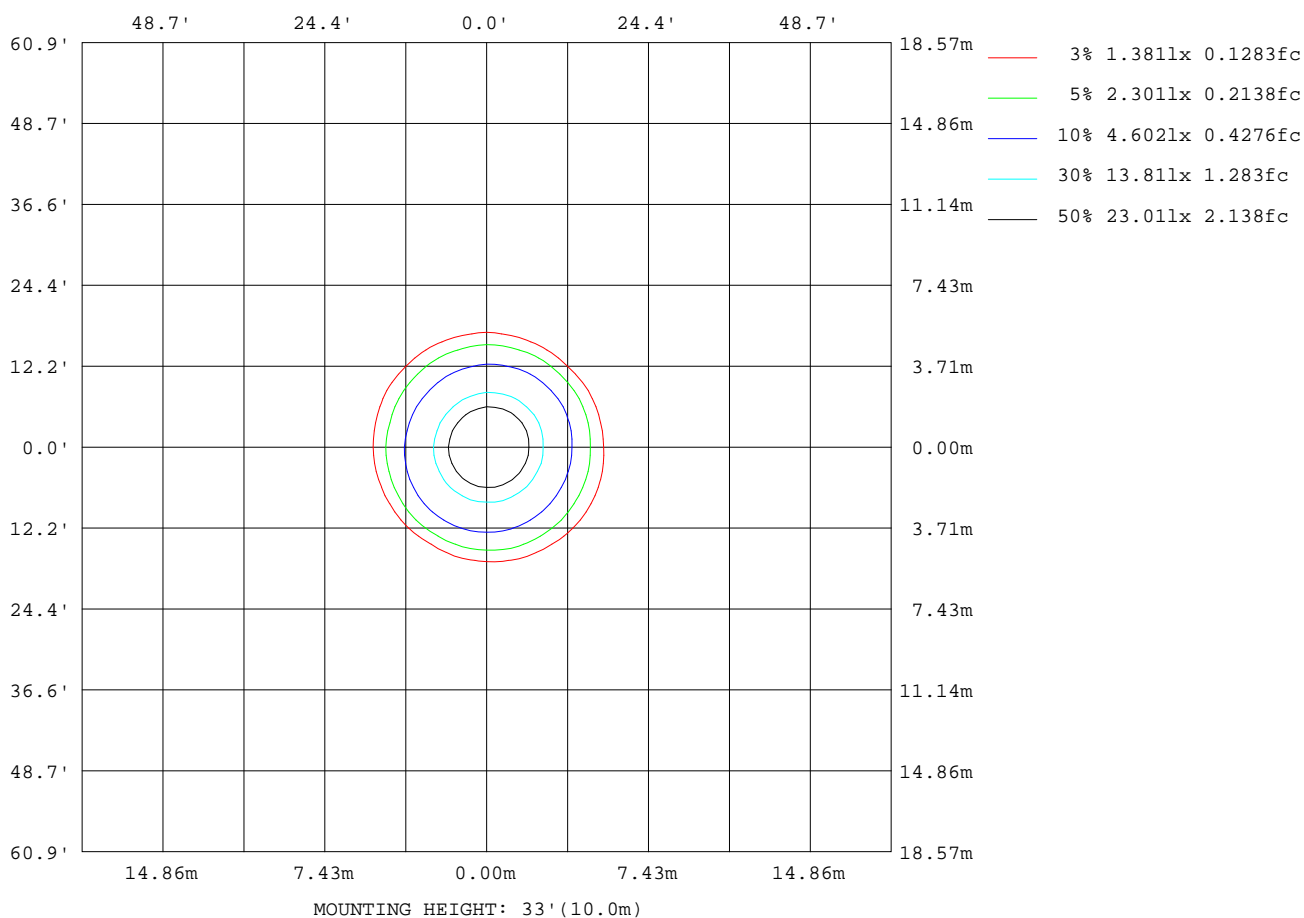
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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SPEC.:3000K	DIM.: ϕ 55mm*H180mm	
MFR.: NEKO LIGHTING AG		

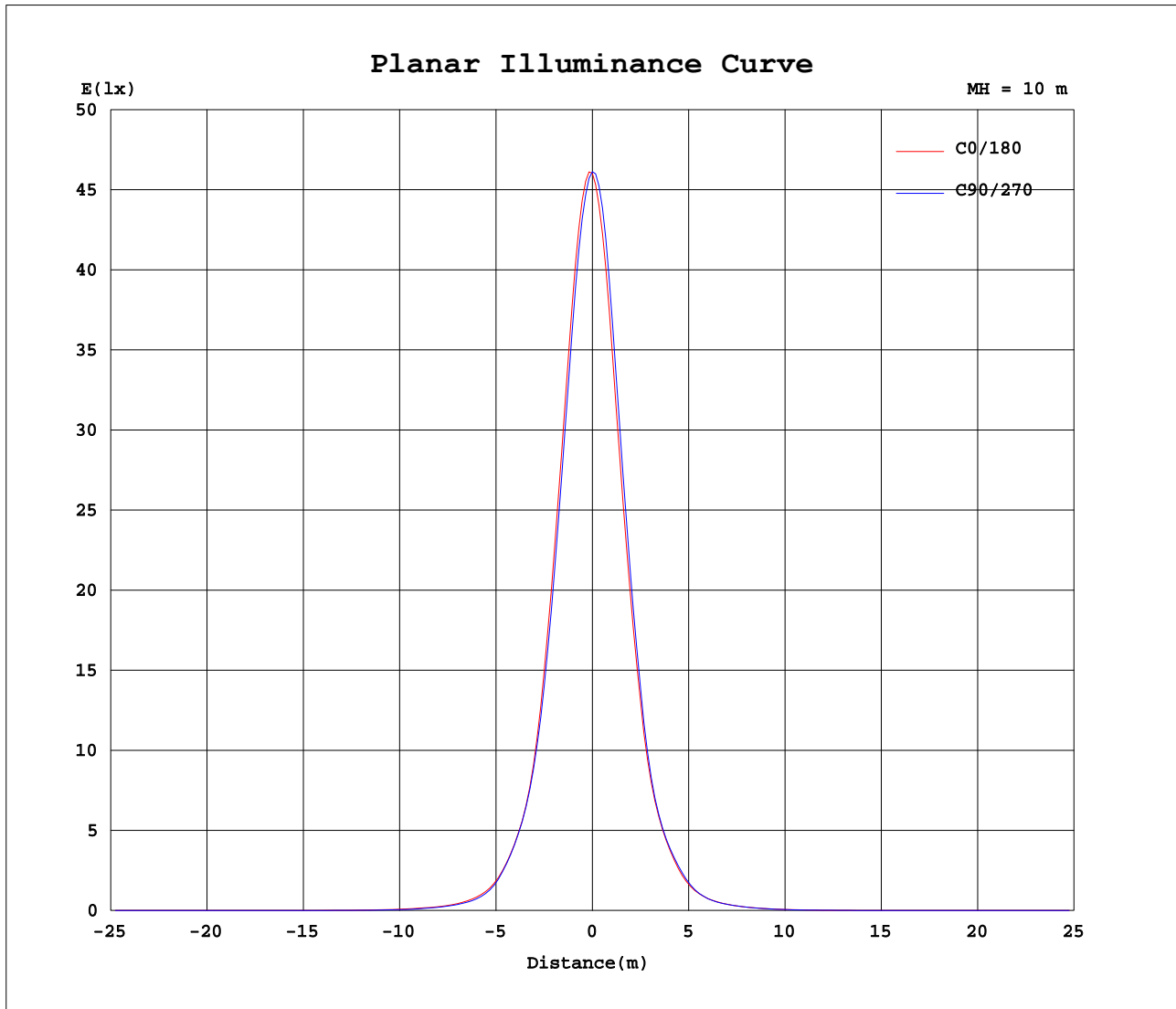
AvgL	cd/m2
L_0~180 (65) av	289
L_0~180 (75) av	155
L_0~180 (85) av	185
L_90~270 (65) av	275
L_90~270 (75) av	162
L_90~270 (85) av	190
L_45 (65) av	282
L_45 (75) av	159
L_45 (85) av	180

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng yongjian
Test Date:2019-04-28

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng yongjian
Test Date: 2019-04-28

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:

```

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:

```

```

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:

```