

Low Voltage Track System Module ML26-PS55-14W-940-50



Light Output Ratio:	100.0%	
Luminaire Power:	13.57 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng yongjian
Test Date: 2020-04-28

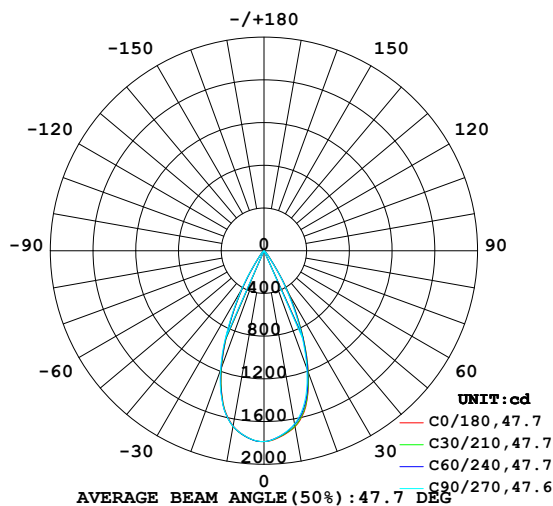
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

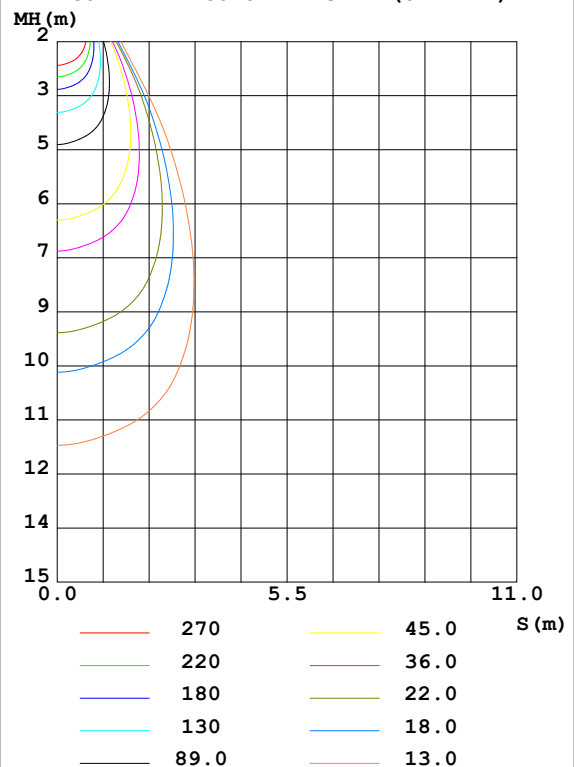
Test:U:48.00V I:0.2827A P:13.57W PF:1.000 Freq:0Hz Lamp Flux:1075.05x1 lm		
NAME: ML26-PS55-14W-940-50	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: ϕ 55mm*H180mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.23 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	1788	S/MH (C0/180)	0.71
NOMINAL POWER (W)	14	LOR (%)	100.0	S/MH (C90/270)	0.72
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	1075.0	η UP,DN (C0-180)	0.0,49.9
NOMINAL FLUX (lm)	1075.05	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	48	η down (%)	100.0	CIBSE SHR MAX	0.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
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Temperature:25.3DEG
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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	1673	1662	1647	1648	1666	1668	1669	1670	0- 10	164.3	164.3	15.3,15.3
20	1216	1212	1175	1151	1163	1163	1194	1209	10- 20	407.8	572.1	53.2,53.2
30	467.5	463.4	428.3	409.7	403.0	397.6	428.7	466.7	20- 30	360.6	932.7	86.8,86.8
40	69.26	65.27	60.62	56.45	56.51	56.50	61.54	68.13	30- 40	115.7	1048	97.5,97.5
50	10.22	9.192	7.934	7.223	7.680	7.860	8.985	9.772	40- 50	22.97	1071	99.7,99.7
60	1.169	1.028	0.8046	0.8237	0.9074	0.9666	1.042	1.194	50- 60	3.179	1074	99.9,99.9
70	0.1865	0.1639	0.1794	0.1527	0.1511	0.1751	0.1659	0.1901	60- 70	0.3942	1075	100,100
80	0.0878	0.0656	0.0875	0.0655	0.0613	0.0810	0.0634	0.0874	70- 80	0.1229	1075	100,100
90	0.0482	0.0459	0.0481	0.0480	0.0241	0.0219	0.0240	0.0262	80- 90	0.0556	1075	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): 1064.5 lm

%lum = 99.0%

%lamp = 99.0%

Conical surface Flux(120deg): 1074.5 lm

%lum = 99.9%

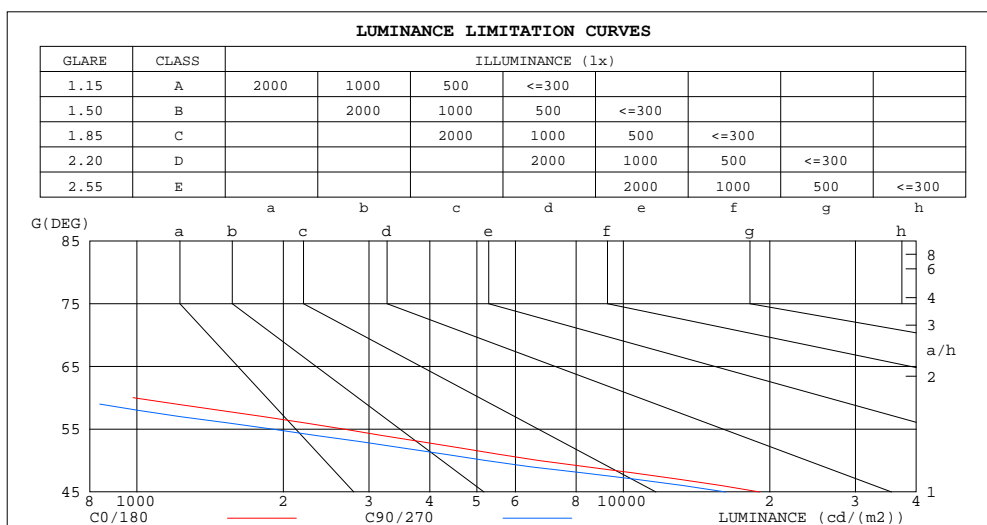
%lamp = 99.9%

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γ Range: 0 - 90DEG
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Remarks:

LUMINANCE LIMITATION CURVES

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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	307	296
80	212	212
75	206	206
70	229	221
65	332	299
60	982	678
55	2660	1895
50	6678	5198
45	19037	16214

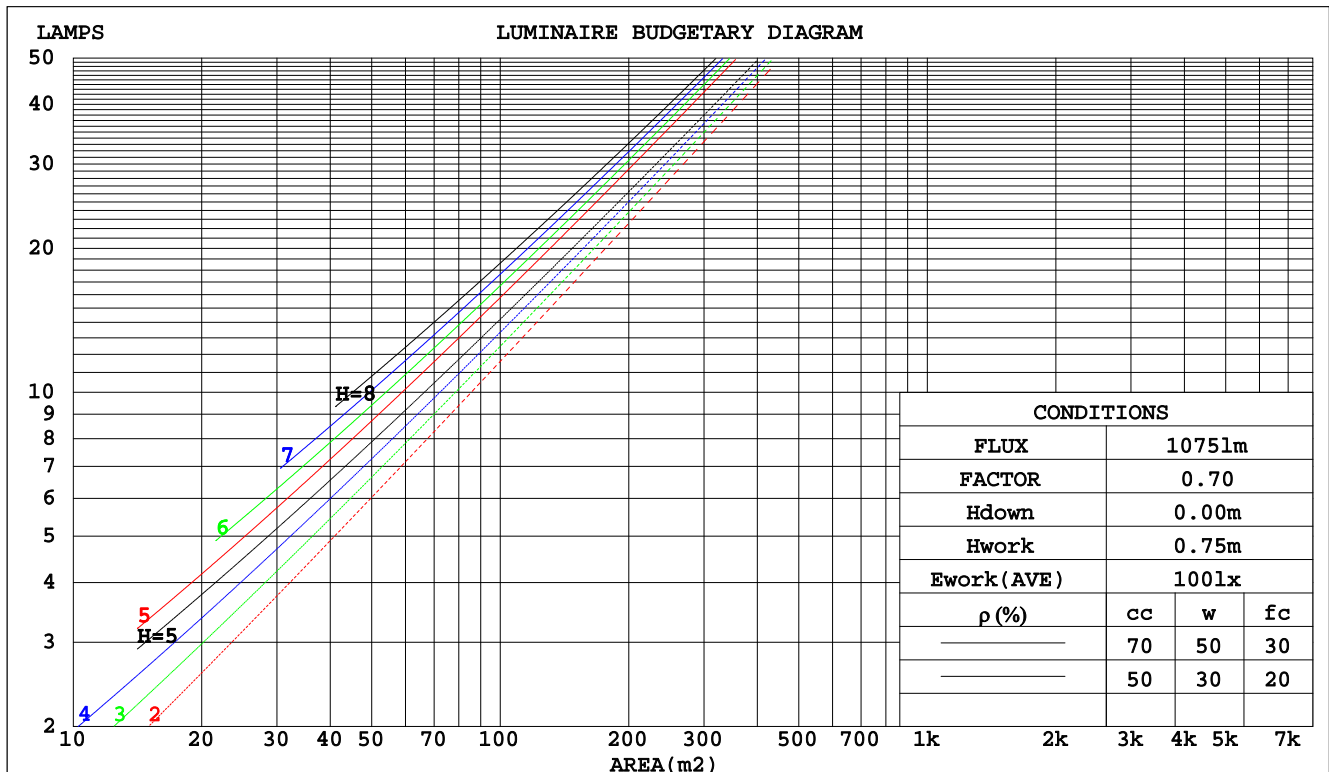
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.12	1.09	1.07	1.10	1.08	1.06	1.06	1.04	1.02	1.02	1.01	.99	.98	.97	.97	.95
2.0	1.05	1.01	.98	1.03	1.00	.97	1.00	.98	.95	.97	.95	.93	.95	.93	.91	.90
3.0	.99	.95	.91	.98	.94	.90	.95	.92	.89	.93	.90	.88	.91	.88	.86	.85
4.0	.94	.89	.85	.93	.88	.85	.90	.87	.84	.89	.85	.83	.87	.84	.82	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.85	.81	.78	.83	.80	.77	.76
6.0	.84	.79	.75	.84	.79	.75	.82	.78	.75	.81	.77	.74	.79	.76	.74	.72
7.0	.80	.75	.71	.80	.75	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.69
8.0	.76	.71	.67	.76	.71	.67	.75	.70	.67	.74	.70	.67	.73	.69	.67	.65
9.0	.73	.68	.64	.72	.67	.64	.71	.67	.64	.71	.67	.64	.70	.66	.63	.62
10.0	.70	.65	.61	.69	.64	.61	.68	.64	.61	.68	.64	.61	.67	.63	.61	.59



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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	.160	.091	.029	.154	.088	.028	.141	.081	.026	.130	.075	.024	.119	.069	.022		
2.0	.152	.083	.026	.146	.081	.025	.136	.075	.023	.126	.071	.022	.117	.066	.021		
3.0	.144	.077	.023	.139	.074	.022	.130	.071	.021	.122	.067	.021	.115	.063	.020		
4.0	.137	.071	.021	.133	.069	.021	.125	.066	.020	.118	.063	.019	.111	.061	.018		
5.0	.130	.066	.019	.127	.065	.019	.120	.063	.018	.114	.060	.018	.108	.058	.017		
6.0	.124	.062	.018	.121	.061	.018	.115	.059	.017	.110	.057	.017	.105	.055	.016		
7.0	.119	.059	.017	.116	.058	.016	.111	.056	.016	.106	.055	.016	.102	.053	.016		
8.0	.114	.056	.016	.112	.055	.016	.107	.053	.015	.103	.052	.015	.099	.051	.015		
9.0	.109	.053	.015	.107	.052	.015	.103	.051	.014	.100	.050	.014	.096	.049	.014		
10.0	.105	.050	.014	.103	.050	.014	.100	.049	.014	.096	.048	.014	.093	.047	.013		

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	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.154	.133	.115	.132	.114	.099	.090	.079	.069	.052	.046	.041	.017	.015	.013	
3.0	.140	.113	.092	.120	.098	.080	.082	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.129	.098	.075	.111	.085	.065	.076	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.120	.087	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
6.0	.112	.077	.052	.096	.067	.045	.066	.047	.032	.039	.027	.019	.012	.009	.006	
7.0	.105	.069	.044	.090	.060	.038	.063	.042	.027	.036	.025	.016	.012	.008	.005	
8.0	.099	.063	.038	.086	.055	.033	.059	.038	.023	.034	.023	.014	.011	.007	.005	
9.0	.094	.058	.033	.081	.050	.029	.056	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.090	.053	.029	.077	.046	.025	.054	.032	.018	.031	.019	.011	.010	.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:0.2827A P:13.57W PF:1.000 Freq:0Hz Lamp Flux:1075.05x1 lm										
NAME: ML26-PS55-14W-940-50					TYPE:Low Voltage Track System Module					
SPEC.:4000K					DIM.: ϕ 55mm*H180mm					
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	17.3	18.2	17.6	18.3	18.5	16.8	17.6	17.0	17.8	17.9
3H	17.2	17.9	17.4	18.1	18.3	16.6	17.4	16.9	17.6	17.8
4H	17.1	17.8	17.4	18.0	18.3	16.5	17.2	16.8	17.5	17.7
6H	17.0	17.7	17.3	17.9	18.2	16.4	17.1	16.7	17.4	17.6
8H	17.0	17.6	17.3	17.9	18.1	16.4	17.0	16.7	17.3	17.6
12H	16.9	17.5	17.2	17.8	18.1	16.3	17.0	16.7	17.2	17.5
4H 2H	17.1	17.8	17.4	18.0	18.3	16.5	17.3	16.8	17.5	17.7
3H	16.9	17.5	17.2	17.8	18.1	16.4	17.0	16.7	17.2	17.5
4H	16.8	17.4	17.2	17.7	18.0	16.3	16.8	16.6	17.1	17.4
6H	16.7	17.2	17.1	17.6	17.9	16.2	16.7	16.5	17.0	17.3
8H	16.7	17.1	17.1	17.5	17.9	16.1	16.6	16.5	16.9	17.3
12H	16.6	17.1	17.0	17.4	17.8	16.1	16.5	16.5	16.8	17.2
8H 4H	16.7	17.1	17.1	17.5	17.9	16.1	16.6	16.5	16.9	17.3
6H	16.6	17.0	17.0	17.3	17.8	16.0	16.4	16.4	16.8	17.2
8H	16.5	16.9	17.0	17.3	17.7	15.9	16.3	16.4	16.7	17.1
12H	16.5	16.7	16.9	17.2	17.7	15.9	16.2	16.4	16.6	17.1
12H 4H	16.6	17.1	17.0	17.4	17.8	16.1	16.5	16.5	16.8	17.2
6H	16.5	16.9	17.0	17.3	17.7	15.9	16.3	16.4	16.7	17.1
8H	16.5	16.7	16.9	17.2	17.7	15.9	16.2	16.4	16.6	17.1
Variations with the observer position at spacings:										
S = 1.0H	+ 3.6 / -16.0					+ 3.4 / -17.4				
1.5H	+ 5.7 / -12.7					+ 5.6 / -12.9				
2.0H	+ 7.4 / -15.4					+ 7.3 / -14.8				

CIE Pub.117, 1075 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.3$)

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 γ Interval: 1.0DEG
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Humidity:52%
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UTILIZATION FACTORS TABLE

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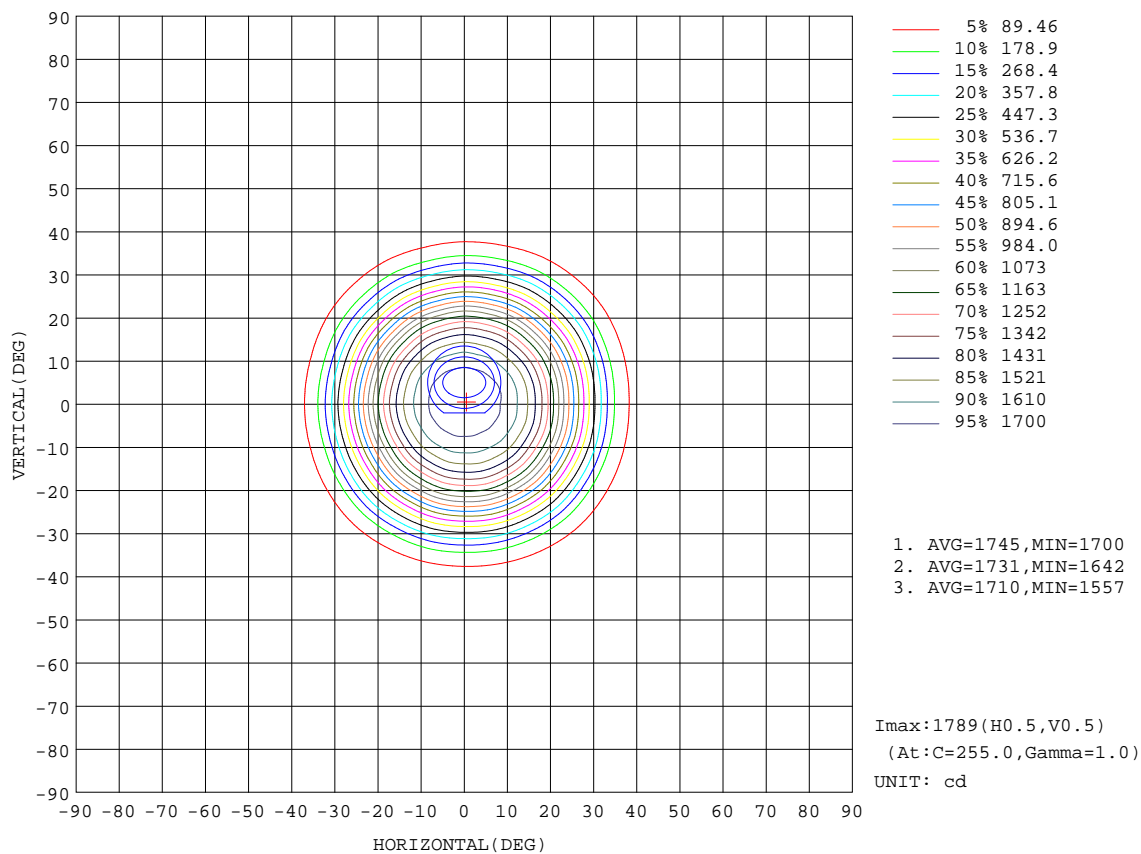
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	90	84	81	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	96	92	99	95	92	88
1.25	105	100	97	104	99	96	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	109	106	104	106	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	113	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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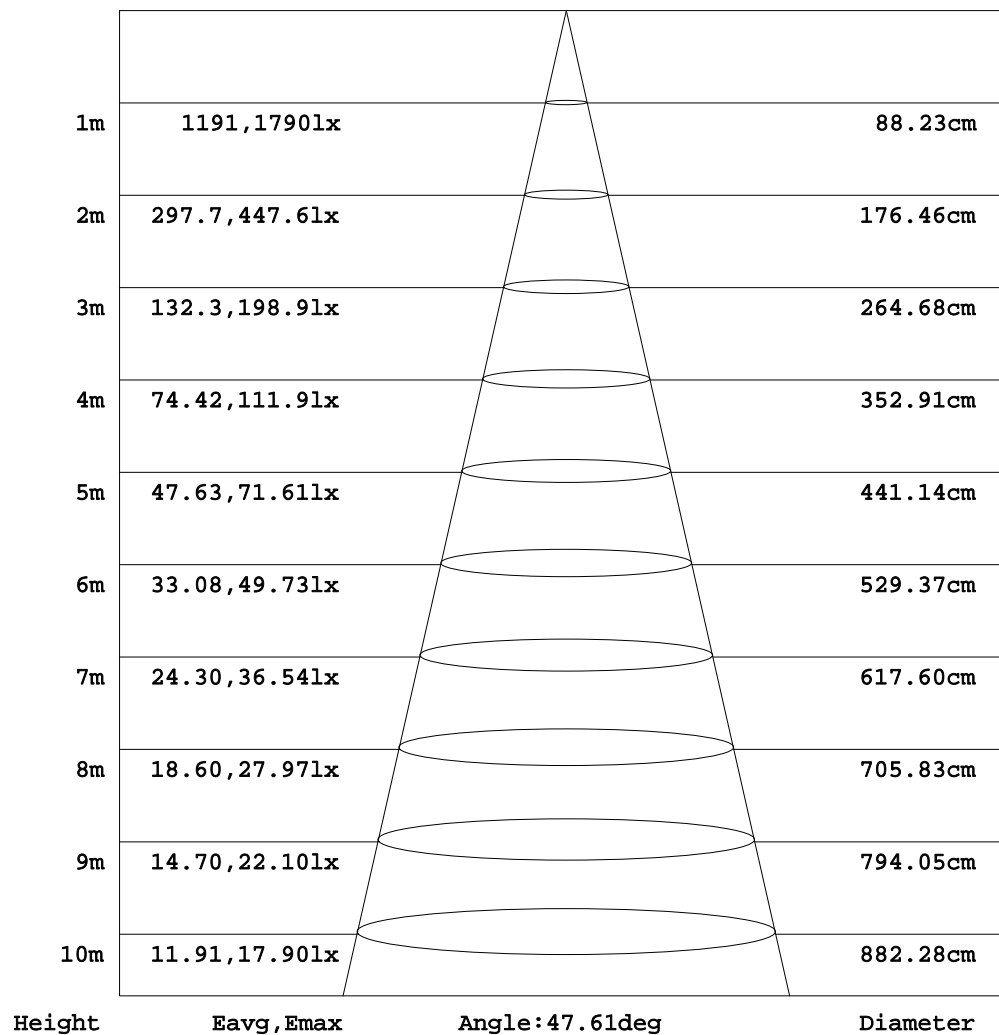
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AAI Figure

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Flux out:741.5 lm



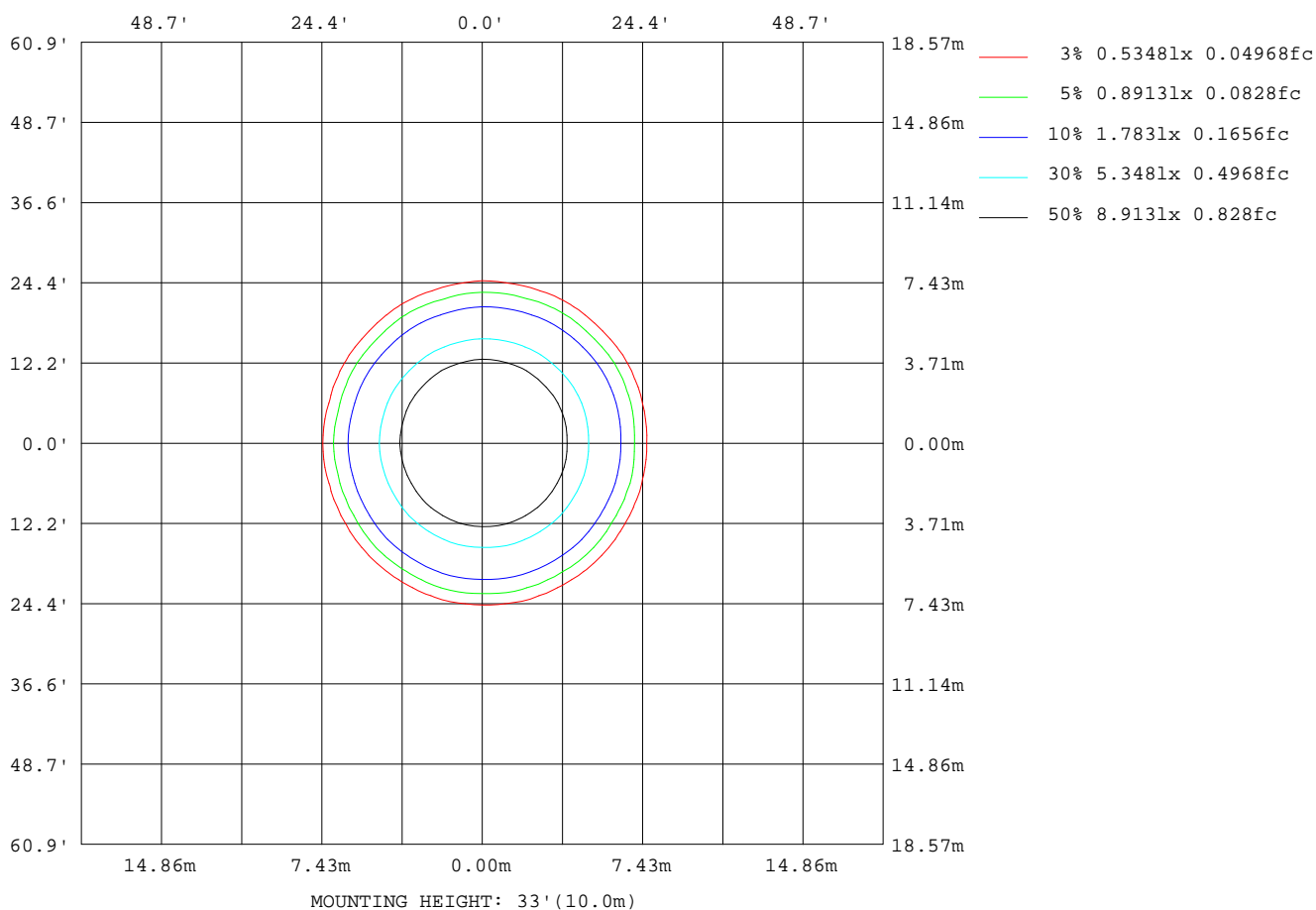
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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MFR.: NEKO LIGHTING AG		

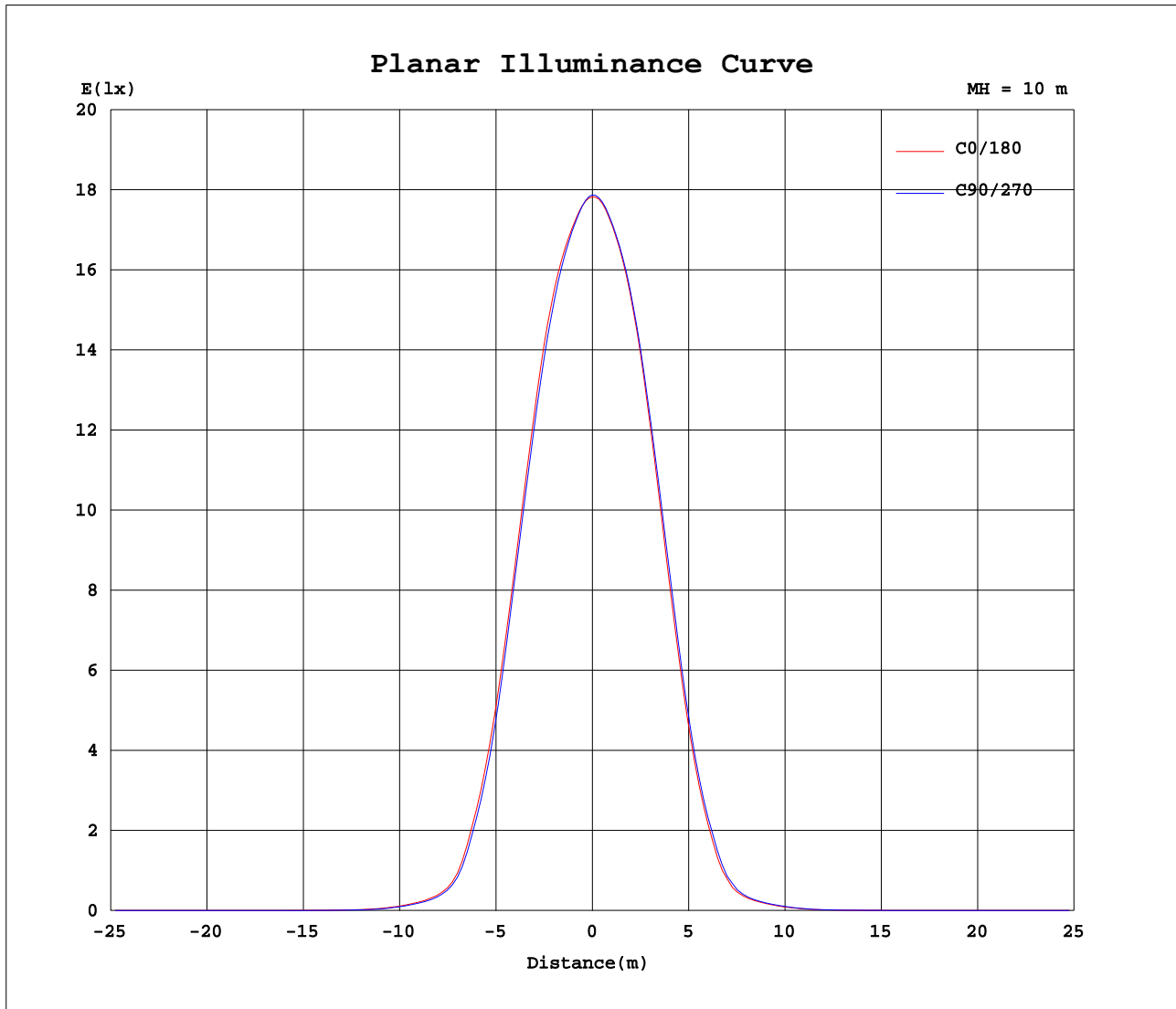
AvgL	cd/m2
L_0~180 (65) av	306
L_0~180 (75) av	184
L_0~180 (85) av	223
L_90~270 (65) av	296
L_90~270 (75) av	185
L_90~270 (85) av	227
L_45 (65) av	303
L_45 (75) av	185
L_45 (85) av	235

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng yongjian
Test Date:2020-04-28

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



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C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng yongjian
Test Date: 2020-04-28

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 γ Interval: 1.0DEG
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Remarks:

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Remarks:

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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:

```