

Low Voltage Track System Module ML26-PS55-14W-927-50



Light Output Ratio:	100.0%	
Luminaire Power:	13.65 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: Jason
Test Date: 2020-05-09

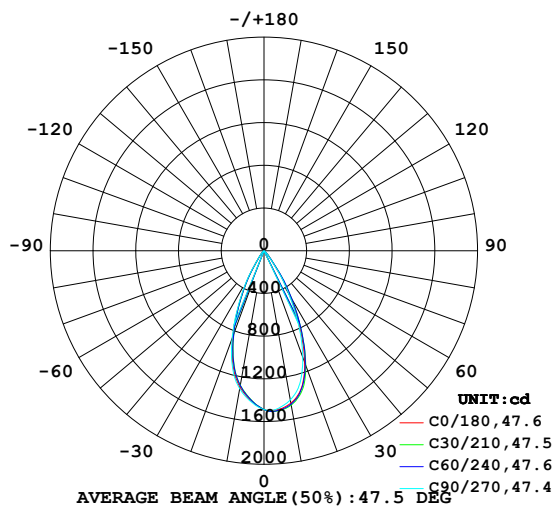
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

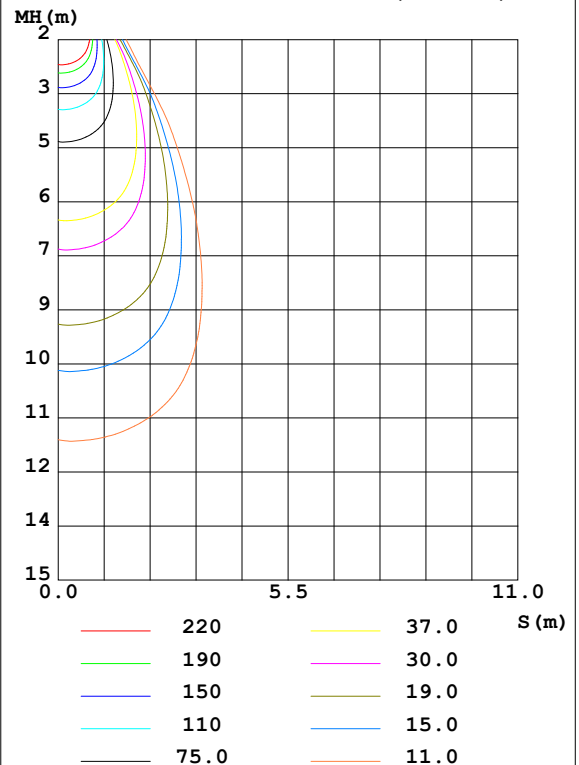
Test:U:48.00V I:0.2843A P:13.65W PF:1.000 Freq:0Hz Lamp Flux:921.556x1 lm		
NAME: ML26-PS55-14W-927-50	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: ϕ 55mm*H180mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.53 lm/W			
MODEL	CITIZEN-2700K	I _{max} (cd)	1509	S/MH (C0/180)	0.69
NOMINAL POWER (W)	14	LOR (%)	100.0	S/MH (C90/270)	0.69
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	921.56	η UP,DN (C0-180)	0.0,53.9
NOMINAL FLUX (lm)	921.556	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,46.1
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)



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ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1449	1469	1419	1350	1297	1274	1312	1388	0- 10	135.9	135.9	14.8,14.8
20	1114	1152	1063	942.9	856.9	819.0	875.1	1008	10- 20	335.9	471.9	51.2,51.2
30	476.8	539.7	461.0	362.3	310.4	289.3	321.1	392.9	20- 30	306.2	778.1	84.4,84.4
40	83.09	92.87	76.27	60.54	53.01	49.96	55.52	66.29	30- 40	114.1	892.2	96.8,96.8
50	14.45	15.51	12.32	9.636	7.879	6.882	8.008	10.83	40- 50	25.27	917.5	99.6,99.6
60	1.208	1.400	1.176	0.8705	0.6326	0.5611	0.6971	1.012	50- 60	3.588	921.0	99.9,99.9
70	0.1469	0.1332	0.1444	0.1202	0.1092	0.1182	0.0916	0.1203	60- 70	0.3691	921.4	100,100
80	0.0744	0.0568	0.0765	0.0589	0.0415	0.0613	0.0371	0.0634	70- 80	0.0897	921.5	100,100
90	0.0503	0.0481	0.0503	0.0503	0.0262	0.0284	0.0262	0.0284	80- 90	0.0500	921.6	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): 909.68 lm

%lum = 98.7%

%lamp = 98.7%

Conical surface Flux(120deg): 921.05 lm

%lum = 99.9%

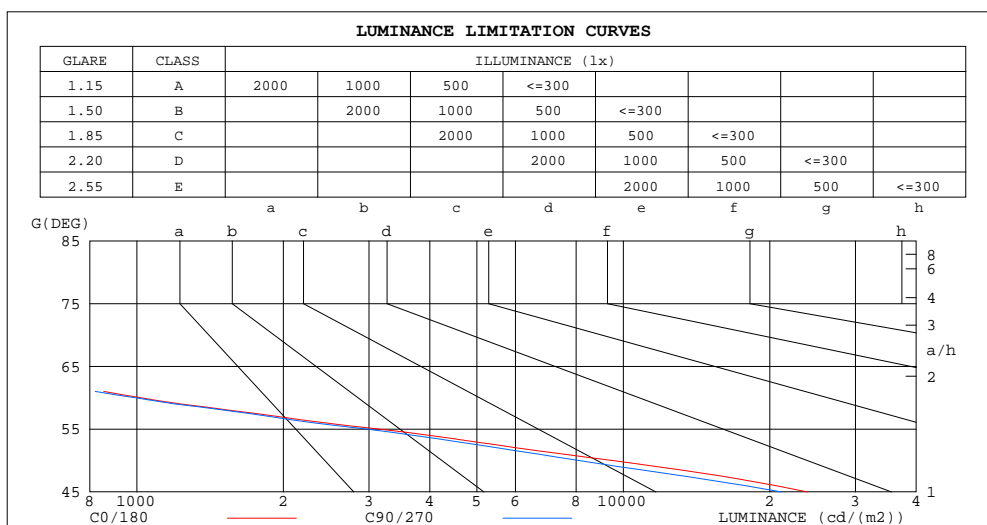
%lamp = 99.9%

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Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:2700K	DIM.: ϕ 55mm*H180mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	286	285
80	180	186
75	164	164
70	181	178
65	422	380
60	1017	991
55	3139	2963
50	9462	8081
45	23885	21109

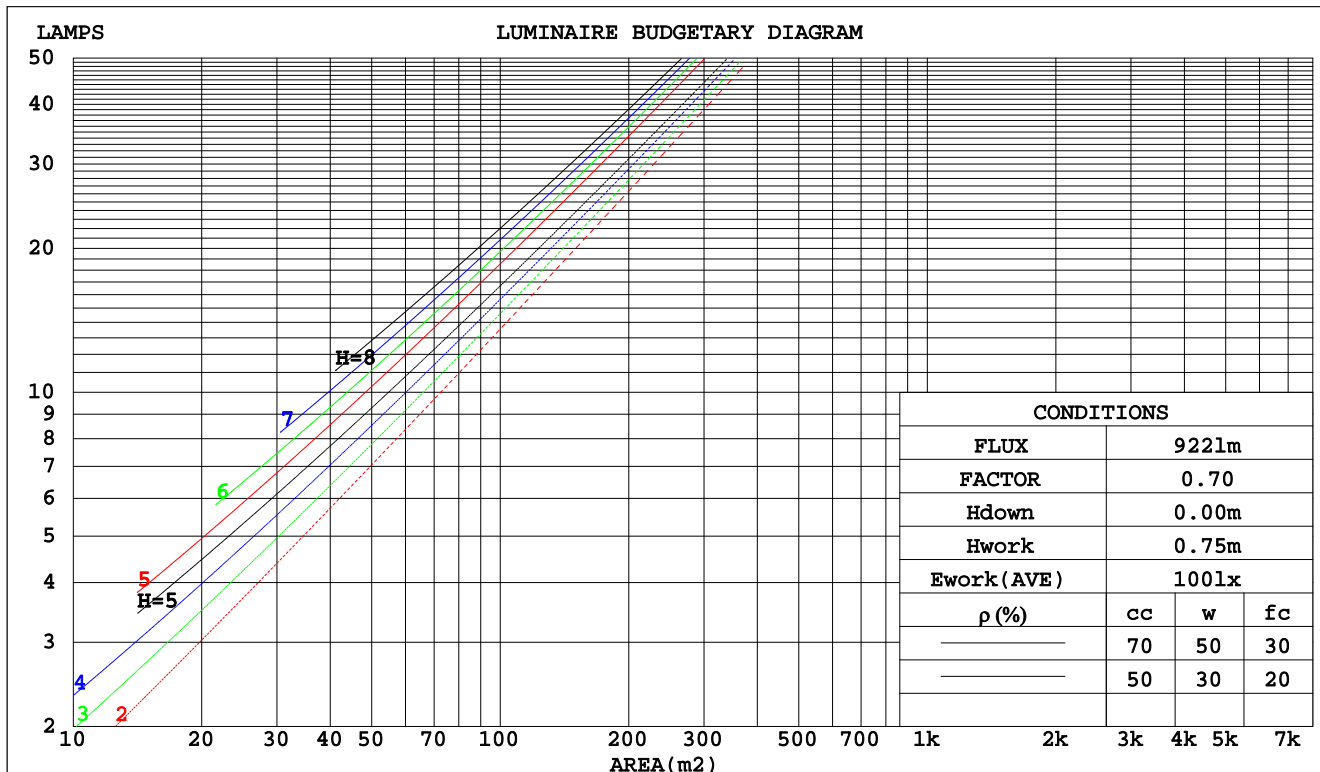
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	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	1.09	1.07	1.06	1.05	1.04	1.02	1.02	1.00	.99	.98	.97	.96	.95
2.0	1.05	1.01	.98	1.03	.90	.97	.90	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.94	.91	.97	.93	.90	.95	.91	.89	.92	.90	.87	.90	.88	.86	.84
4.0	.93	.88	.84	.92	.87	.84	.90	.86	.83	.88	.85	.82	.86	.83	.81	.80
5.0	.88	.83	.79	.87	.82	.79	.85	.81	.78	.84	.80	.77	.82	.79	.77	.75
6.0	.84	.78	.74	.83	.78	.74	.81	.77	.74	.80	.76	.73	.79	.75	.73	.71
7.0	.79	.74	.70	.79	.74	.70	.77	.73	.70	.76	.72	.69	.75	.72	.69	.68
8.0	.75	.70	.66	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.64
9.0	.72	.67	.63	.71	.66	.63	.71	.66	.63	.70	.66	.63	.69	.65	.62	.61
10.0	.69	.63	.60	.68	.63	.60	.67	.63	.60	.67	.63	.60	.66	.62	.59	.58



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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	.163	.092	.029	.156	.089	.028	.143	.082	.026	.132	.076	.024	.121	.070	.023		
2.0	.154	.085	.026	.149	.082	.025	.138	.077	.024	.129	.072	.023	.120	.068	.021		
3.0	.146	.078	.023	.142	.076	.023	.133	.072	.022	.125	.068	.021	.117	.065	.020		
4.0	.139	.072	.021	.135	.071	.021	.127	.068	.020	.120	.065	.019	.114	.062	.019		
5.0	.132	.068	.020	.129	.066	.019	.122	.064	.019	.116	.061	.018	.111	.059	.018		
6.0	.126	.063	.018	.123	.062	.018	.118	.060	.018	.112	.058	.017	.107	.056	.017		
7.0	.121	.060	.017	.118	.059	.017	.113	.057	.016	.109	.056	.016	.104	.054	.016		
8.0	.116	.057	.016	.114	.056	.016	.109	.055	.016	.105	.053	.015	.101	.052	.015		
9.0	.111	.054	.015	.109	.053	.015	.105	.052	.015	.101	.051	.015	.098	.050	.014		
10.0	.107	.051	.014	.105	.051	.014	.102	.050	.014	.098	.049	.014	.095	.048	.014		

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	.146	.135	.126	.100	.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	.141	.113	.092	.121	.098	.080	.083	.068	.056	.048	.040	.033	.015	.013	.011	
4.0	.130	.099	.075	.111	.085	.065	.077	.059	.046	.044	.035	.027	.014	.011	.009	
5.0	.121	.087	.062	.104	.075	.054	.071	.052	.038	.041	.031	.022	.013	.010	.007	
6.0	.113	.077	.052	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.106	.069	.044	.091	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.100	.063	.038	.086	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005	
9.0	.095	.058	.033	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.053	.029	.078	.046	.025	.054	.033	.018	.032	.019	.011	.010	.006	.004	

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 Remarks:

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.2843A P:13.65W PF:1.000 Freq:0Hz Lamp Flux:921.556x1 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	19.9	20.8	20.2	20.9	21.1	19.9	20.8	20.1	20.9	21.1
3H	19.8	20.6	20.0	20.7	20.9	19.7	20.5	20.0	20.7	20.9
4H	19.7	20.4	20.0	20.6	20.9	19.7	20.4	19.9	20.6	20.8
6H	19.6	20.3	19.9	20.5	20.8	19.6	20.3	19.9	20.5	20.7
8H	19.6	20.2	19.9	20.5	20.7	19.5	20.2	19.8	20.4	20.7
12H	19.5	20.2	19.8	20.4	20.7	19.5	20.1	19.8	20.4	20.7
4H 2H	19.7	20.4	20.0	20.6	20.9	19.7	20.4	19.9	20.6	20.8
3H	19.5	20.2	19.8	20.4	20.7	19.5	20.1	19.8	20.4	20.7
4H	19.4	20.0	19.8	20.3	20.6	19.4	20.0	19.7	20.3	20.6
6H	19.3	19.8	19.7	20.2	20.5	19.3	19.8	19.7	20.1	20.5
8H	19.3	19.7	19.7	20.1	20.5	19.2	19.7	19.6	20.1	20.4
12H	19.2	19.7	19.6	20.0	20.4	19.2	19.6	19.6	20.0	20.4
8H 4H	19.3	19.7	19.7	20.1	20.5	19.2	19.7	19.6	20.1	20.4
6H	19.2	19.6	19.6	19.9	20.4	19.1	19.5	19.6	19.9	20.3
8H	19.1	19.5	19.6	19.9	20.3	19.1	19.4	19.5	19.8	20.3
12H	19.1	19.3	19.5	19.8	20.3	19.0	19.3	19.5	19.8	20.2
12H 4H	19.2	19.7	19.6	20.0	20.4	19.2	19.6	19.6	20.0	20.4
6H	19.1	19.5	19.6	19.9	20.3	19.1	19.4	19.5	19.8	20.3
8H	19.1	19.3	19.5	19.8	20.3	19.0	19.3	19.5	19.8	20.2
Variations with the observer position at spacings:										
S = 1.0H	+ 3.0 / -17.0					+ 2.9 / -17.0				
1.5H	+ 5.1 / -12.6					+ 5.0 / -12.2				
2.0H	+ 6.8 / -16.1					+ 6.6 / -15.6				

CIE Pub.117, 921.6 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.3$)

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Remarks:

UTILIZATION FACTORS TABLE

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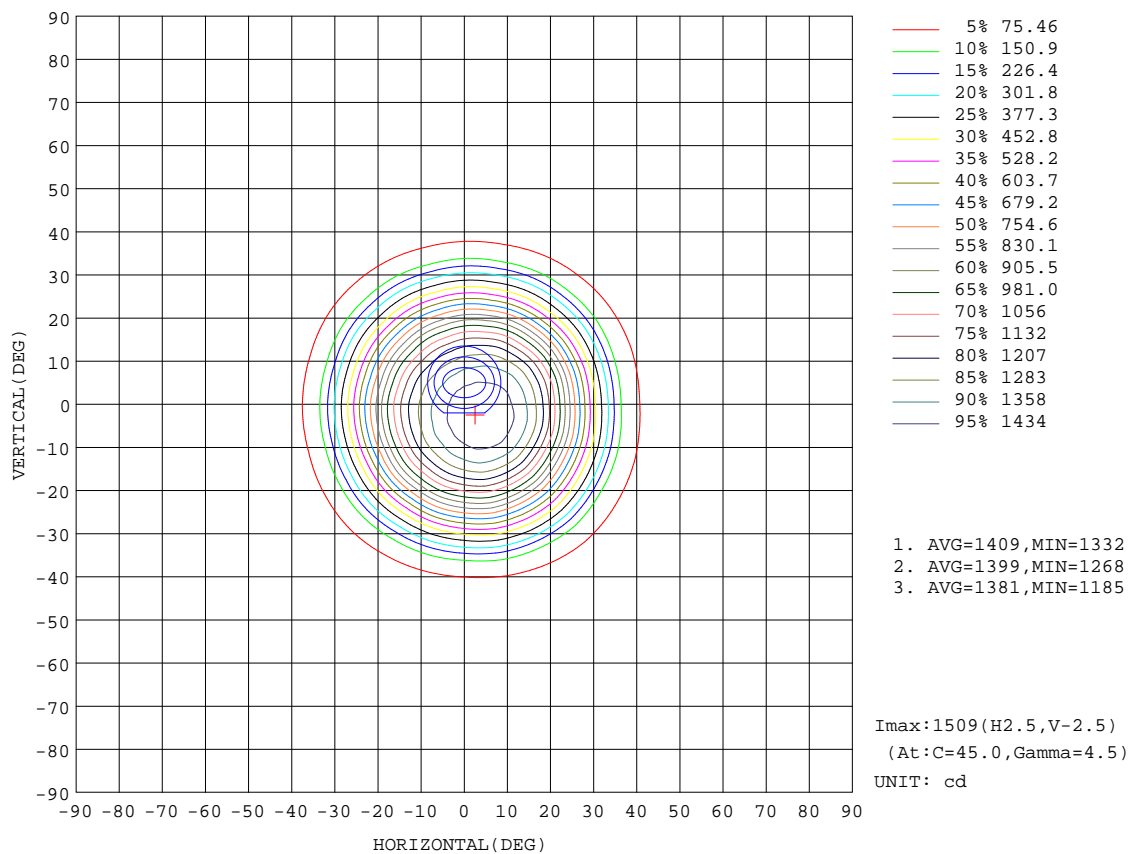
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	83	80	88	83	80	76
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	105	100	97	104	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	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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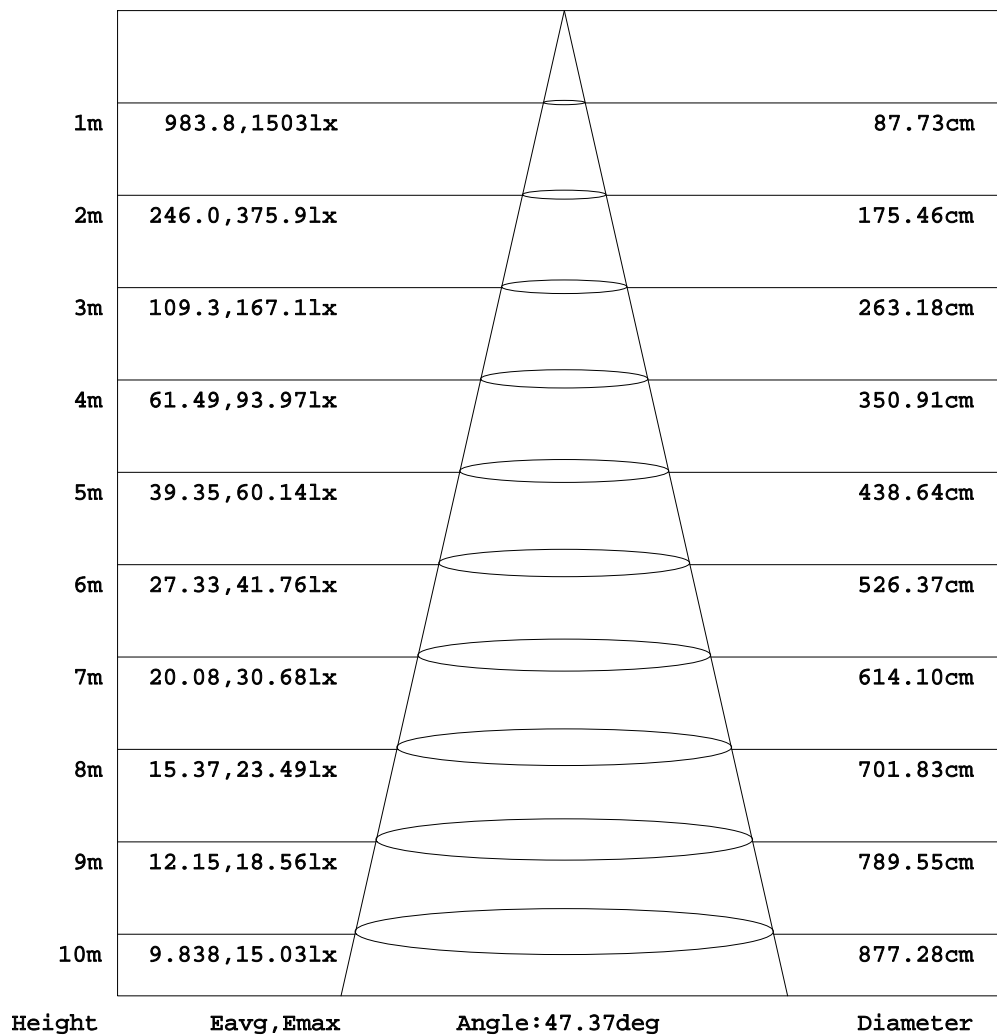
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AAI Figure

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Flux out:612.7 lm



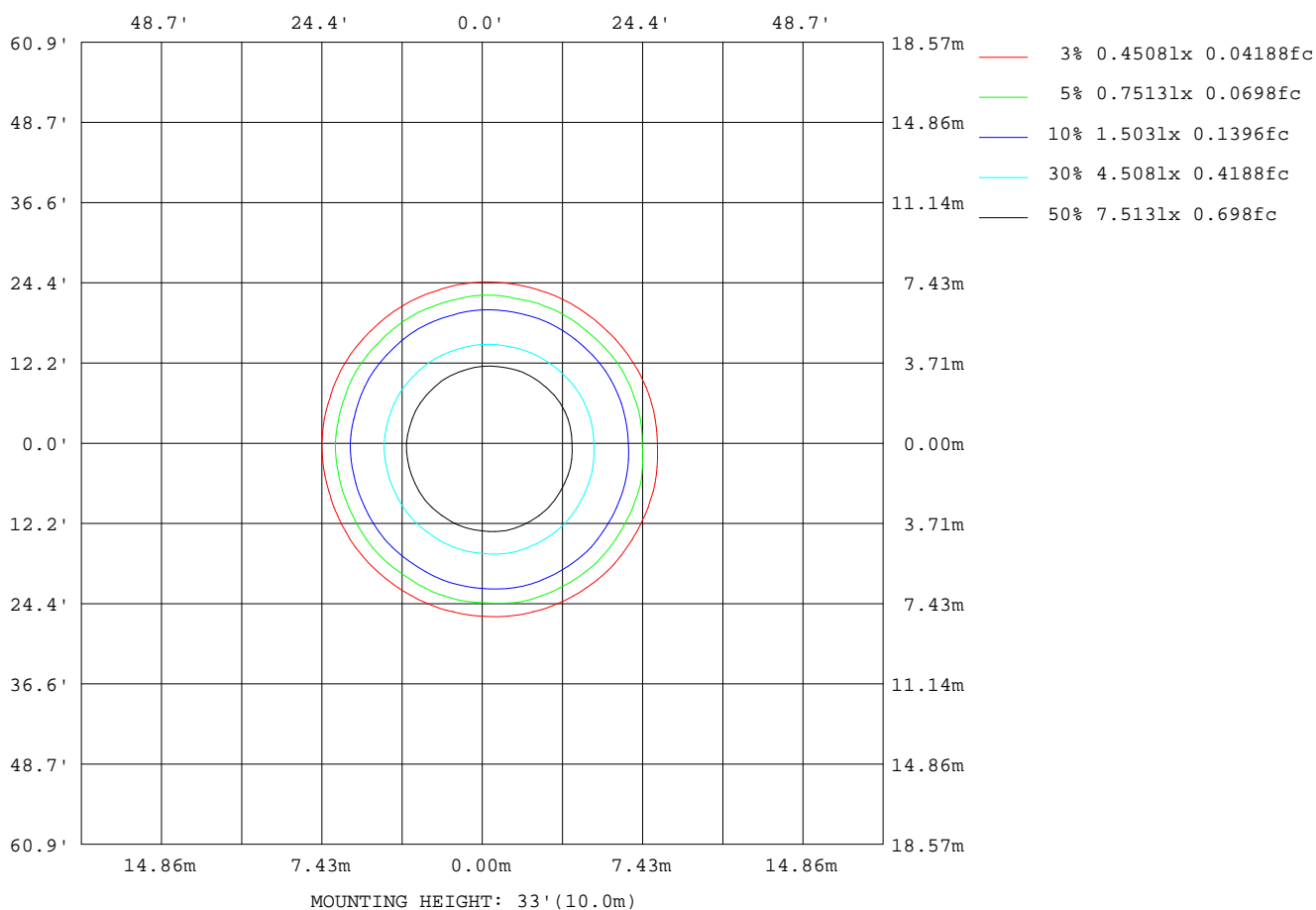
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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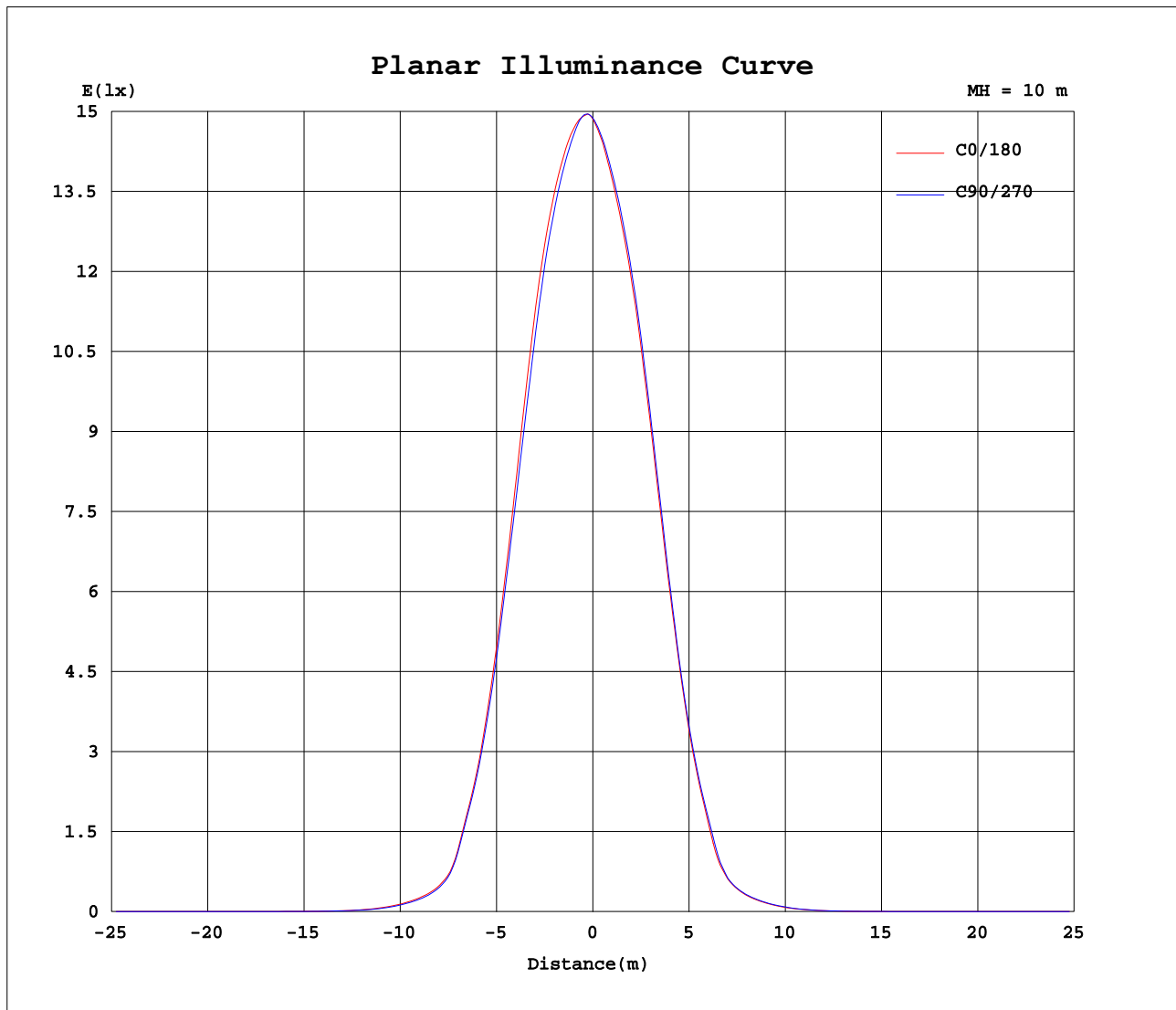
AvgL	cd/m2
L_0~180 (65) av	313
L_0~180 (75) av	142
L_0~180 (85) av	212
L_90~270 (65) av	288
L_90~270 (75) av	130
L_90~270 (85) av	211
L_45 (65) av	299
L_45 (75) av	134
L_45 (85) av	222

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-09

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
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: Jason
Test Date: 2020-05-09

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

```