

Low Voltage Track System Module ML26-PS55-14W-927-18

Light Output Ratio:	100.0%	
Luminaire Power:	13.61 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: Jason
Test Date: 2020-05-09

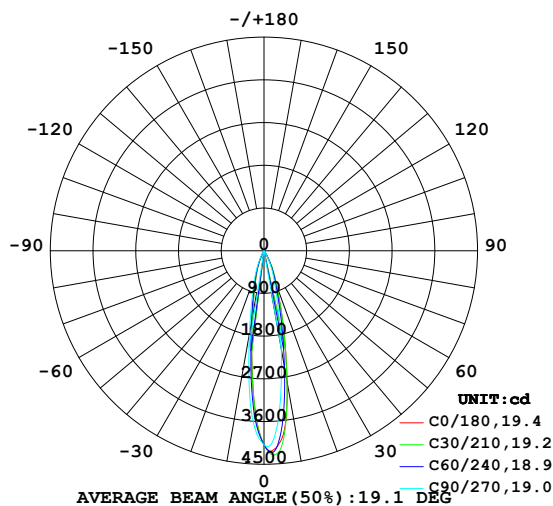
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

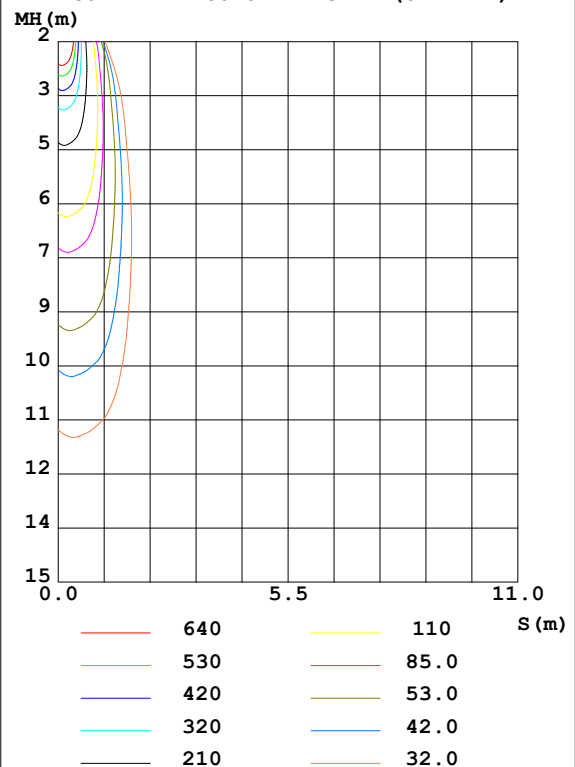
Test:U:48.00V I:0.2835A P:13.61W PF:1.000 Freq:0Hz Lamp Flux:768.428x1 lm		
NAME: ML26-PS55-14W-927-18	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: \varnothing 55mm*H180mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 56.48 lm/W			
MODEL	CITIZEN-2700K	I _{max} (cd)	4314	S/MH (C0/180)	0.25
NOMINAL POWER (W)	14	LOR (%)	100.0	S/MH (C90/270)	0.31
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	768.43	η UP,DN (C0-180)	0.0,54.2
NOMINAL FLUX (lm)	768.428	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,45.8
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	2811	2717	2098	1629	1429	1442	1766	2347	0- 10	278.7	278.7	36.3, 36.3
20	777.7	765.5	602.5	472.4	403.0	432.9	526.7	674.3	10- 20	304.0	582.7	75.8, 75.8
30	156.8	170.6	134.0	87.59	59.72	54.97	80.95	139.7	20- 30	137.6	720.3	93.7, 93.7
40	31.59	34.25	31.06	21.01	16.34	14.53	20.63	27.45	30- 40	32.61	752.9	98, 98
50	8.687	10.39	9.245	6.946	5.059	4.519	5.794	7.891	40- 50	10.75	763.6	99.4, 99.4
60	2.521	3.308	3.083	1.946	1.580	1.439	1.828	2.175	50- 60	3.748	767.4	99.9, 99.9
70	0.2439	0.2333	0.1925	0.1227	0.1085	0.1334	0.1288	0.1933	60- 70	0.8979	768.3	100, 100
80	0.0848	0.0655	0.0809	0.0416	0.0347	0.0590	0.0458	0.0724	70- 80	0.1077	768.4	100, 100
90	0.0435	0.0371	0.0350	0.0307	0.0239	0.0240	0.0240	0.0329	80- 90	0.0461	768.4	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): 759.62 lm

%lum = 98.9%

%lamp = 98.9%

Conical surface Flux(120deg): 767.38 lm

%lum = 99.9%

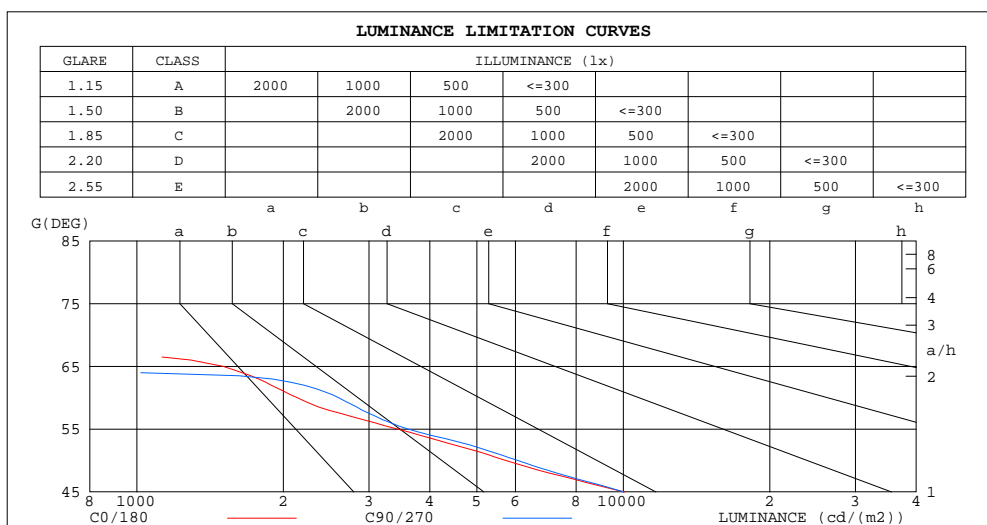
%lamp = 99.9%

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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	275	254
80	207	196
75	214	199
70	302	237
65	1503	531
60	2136	2599
55	3433	3609
50	5727	6062
45	10064	10008

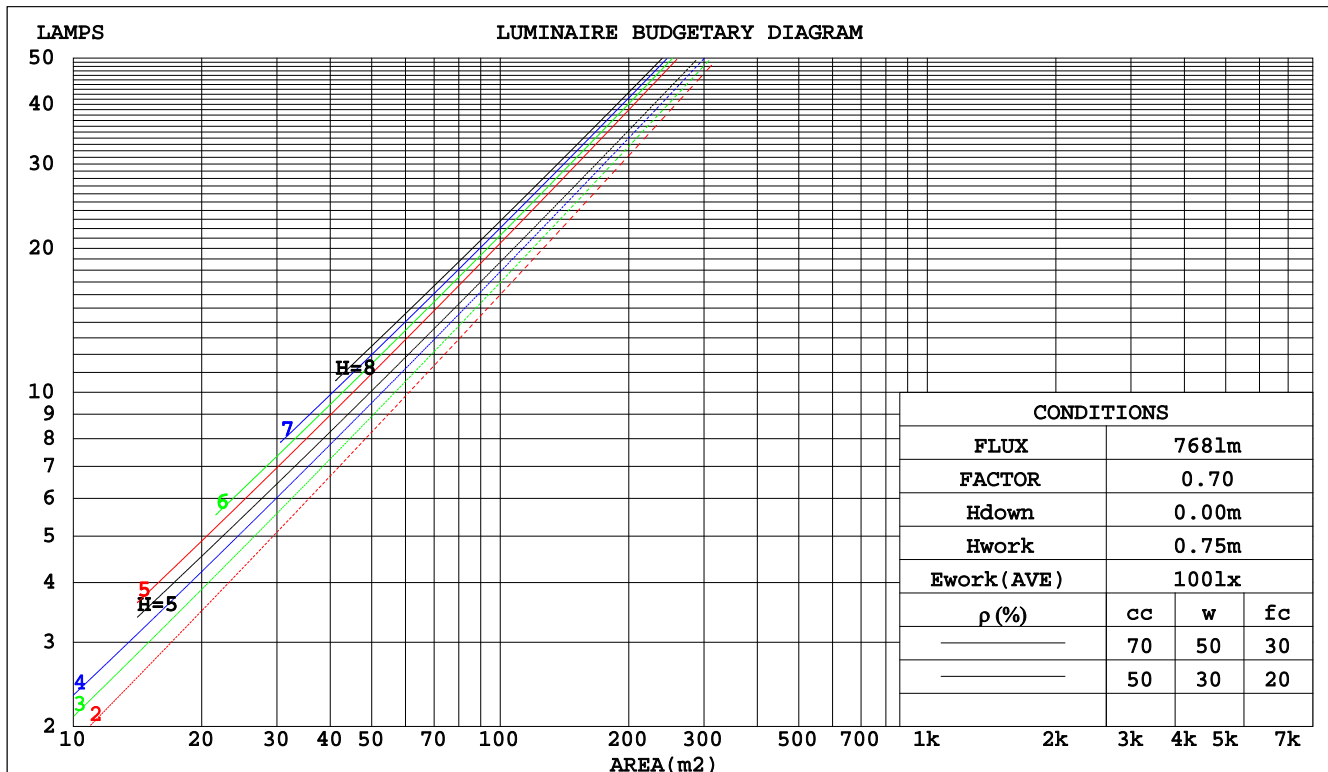
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	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	.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	.99	.00	.98	.96	.97	.96	.95	.93
3.0	1.03	.99	.96	1.01	.98	.95	.99	.96	.94	.97	.94	.93	.95	.93	.91	.90
4.0	.99	.95	.92	.98	.94	.91	.96	.92	.90	.94	.91	.89	.92	.90	.88	.87
5.0	.95	.91	.88	.94	.90	.87	.92	.89	.87	.91	.88	.86	.90	.87	.85	.84
6.0	.92	.87	.84	.91	.87	.84	.90	.86	.83	.88	.85	.83	.87	.84	.82	.81
7.0	.89	.84	.81	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.79
8.0	.86	.82	.79	.85	.81	.78	.84	.81	.78	.83	.80	.78	.83	.80	.78	.77
9.0	.83	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.76	.81	.78	.75	.75
10.0	.81	.77	.74	.80	.77	.74	.80	.76	.74	.79	.76	.74	.79	.76	.73	.73



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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	.138	.079	.025	.132	.075	.024	.119	.068	.022	.108	.062	.020	.097	.057	.018		
2.0	.129	.071	.022	.123	.068	.021	.113	.063	.020	.104	.058	.018	.095	.054	.017		
3.0	.120	.064	.019	.116	.062	.019	.107	.058	.018	.099	.054	.017	.092	.051	.016		
4.0	.113	.059	.017	.109	.057	.017	.102	.054	.016	.095	.051	.015	.089	.048	.015		
5.0	.106	.054	.016	.103	.053	.015	.097	.050	.015	.091	.048	.014	.086	.046	.014		
6.0	.101	.050	.014	.098	.049	.014	.093	.047	.014	.088	.046	.013	.083	.044	.013		
7.0	.096	.047	.013	.093	.046	.013	.089	.045	.013	.084	.043	.013	.080	.042	.012		
8.0	.091	.045	.013	.089	.044	.012	.085	.042	.012	.081	.041	.012	.078	.040	.012		
9.0	.087	.042	.012	.085	.042	.012	.082	.040	.011	.078	.039	.011	.075	.038	.011		
10.0	.083	.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	.150	.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	.089	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.096	.068	.047	.083	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.090	.061	.041	.077	.053	.036	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.084	.055	.035	.073	.048	.031	.050	.034	.022	.029	.020	.013	.009	.007	.004	
10.0	.079	.050	.031	.068	.044	.027	.048	.031	.019	.028	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
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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:

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.2835A P:13.61W PF:1.000 Freq:0Hz Lamp Flux:768.428x1 lm										
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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	13.2	13.8	13.4	14.0	14.1	13.1	13.7	13.3	13.9	14.0
3H	13.1	13.7	13.3	13.9	14.0	12.9	13.5	13.2	13.7	13.9
4H	13.0	13.6	13.2	13.8	14.0	12.8	13.4	13.1	13.6	13.8
6H	12.9	13.4	13.2	13.7	13.9	12.8	13.3	13.0	13.5	13.8
8H	12.8	13.4	13.1	13.6	13.9	12.7	13.3	13.0	13.5	13.7
12H	12.8	13.3	13.1	13.6	13.8	12.7	13.2	13.0	13.4	13.7
4H 2H	13.0	13.6	13.3	13.8	14.0	12.9	13.5	13.2	13.7	13.9
3H	12.9	13.4	13.2	13.7	13.9	12.7	13.3	13.0	13.5	13.8
4H	12.8	13.3	13.1	13.5	13.8	12.6	13.1	13.0	13.4	13.7
6H	12.7	13.1	13.0	13.4	13.8	12.5	13.0	12.9	13.3	13.6
8H	12.6	13.0	13.0	13.4	13.7	12.5	12.9	12.9	13.2	13.6
12H	12.6	12.9	13.0	13.3	13.7	12.4	12.8	12.8	13.2	13.5
8H 4H	12.6	13.0	13.0	13.4	13.7	12.5	12.9	12.9	13.2	13.6
6H	12.5	12.8	12.9	13.2	13.6	12.4	12.7	12.8	13.1	13.5
8H	12.5	12.7	12.9	13.2	13.6	12.3	12.6	12.8	13.0	13.5
12H	12.4	12.6	12.9	13.1	13.5	12.3	12.5	12.7	12.9	13.4
12H 4H	12.6	12.9	13.0	13.3	13.7	12.4	12.8	12.8	13.2	13.5
6H	12.5	12.7	12.9	13.2	13.6	12.3	12.6	12.8	13.0	13.5
8H	12.4	12.6	12.9	13.1	13.5	12.3	12.5	12.7	12.9	13.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / - 7.1					+ 2.4 / - 6.5				
1.5H	+ 4.2 / - 4.9					+ 3.6 / - 4.3				
2.0H	+ 4.5 / - 4.8					+ 4.3 / - 4.0				

CIE Pub.117, 768.4 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.9$)

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UTILIZATION FACTORS TABLE

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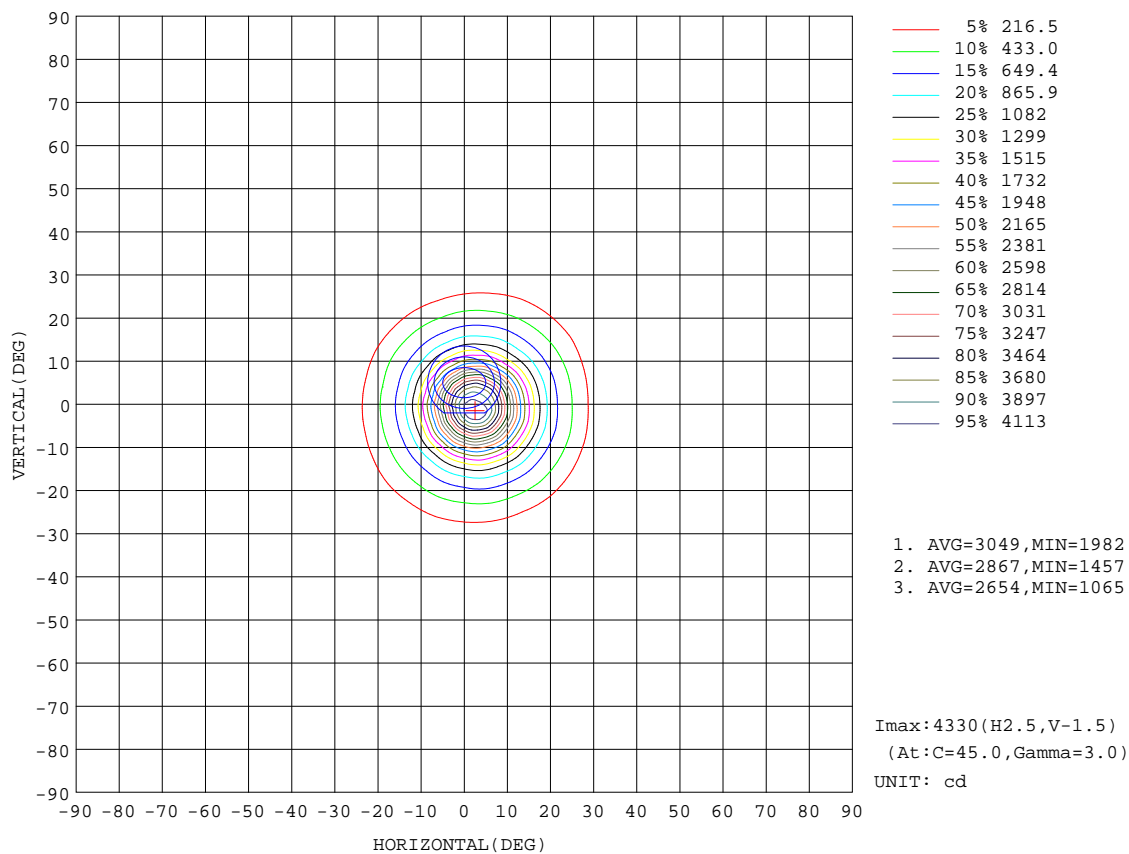
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	90	84	81	89	84	81	77
0.80	97	92	89	97	92	89	96	91	88	85
1.00	101	96	93	100	96	93	99	95	92	88
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	100	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	113	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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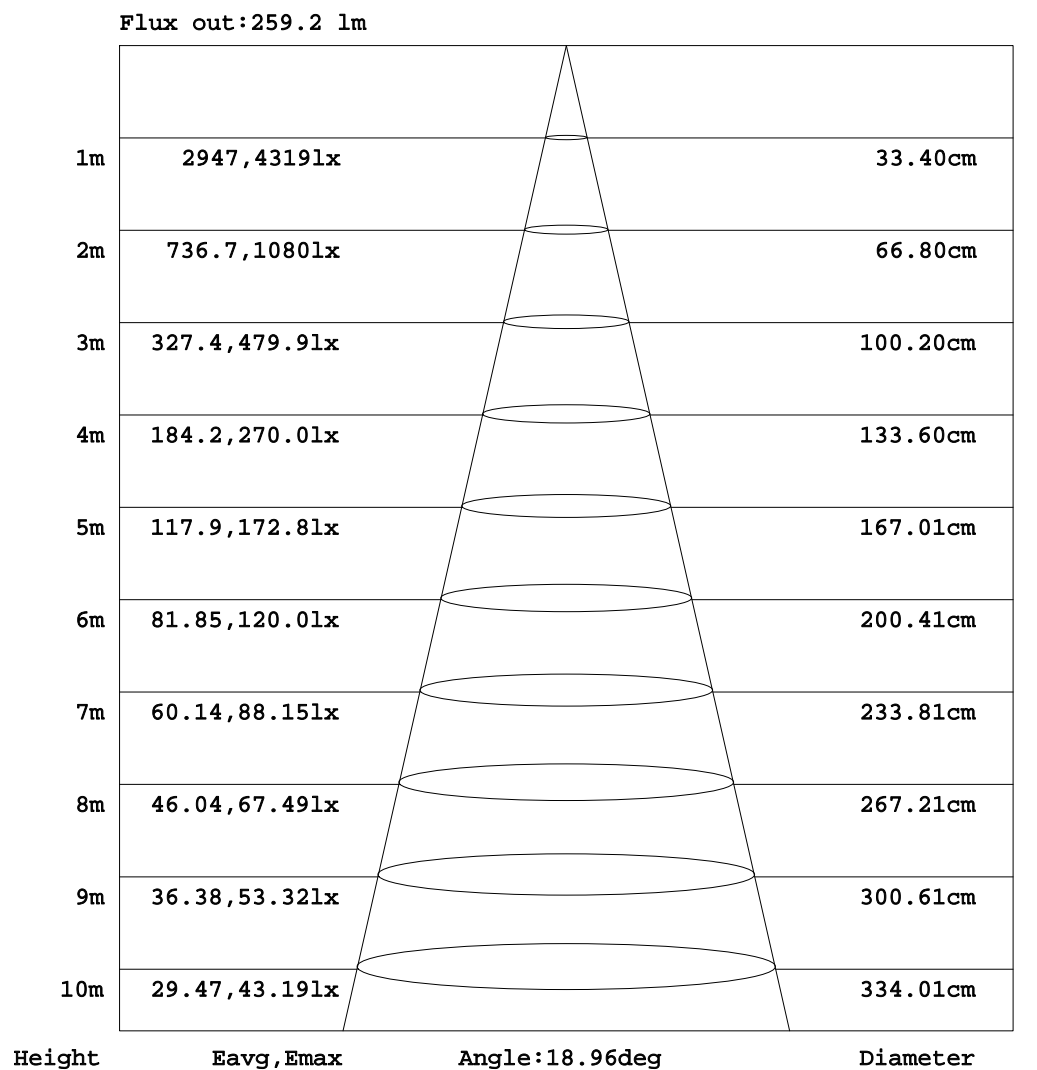


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AAI Figure

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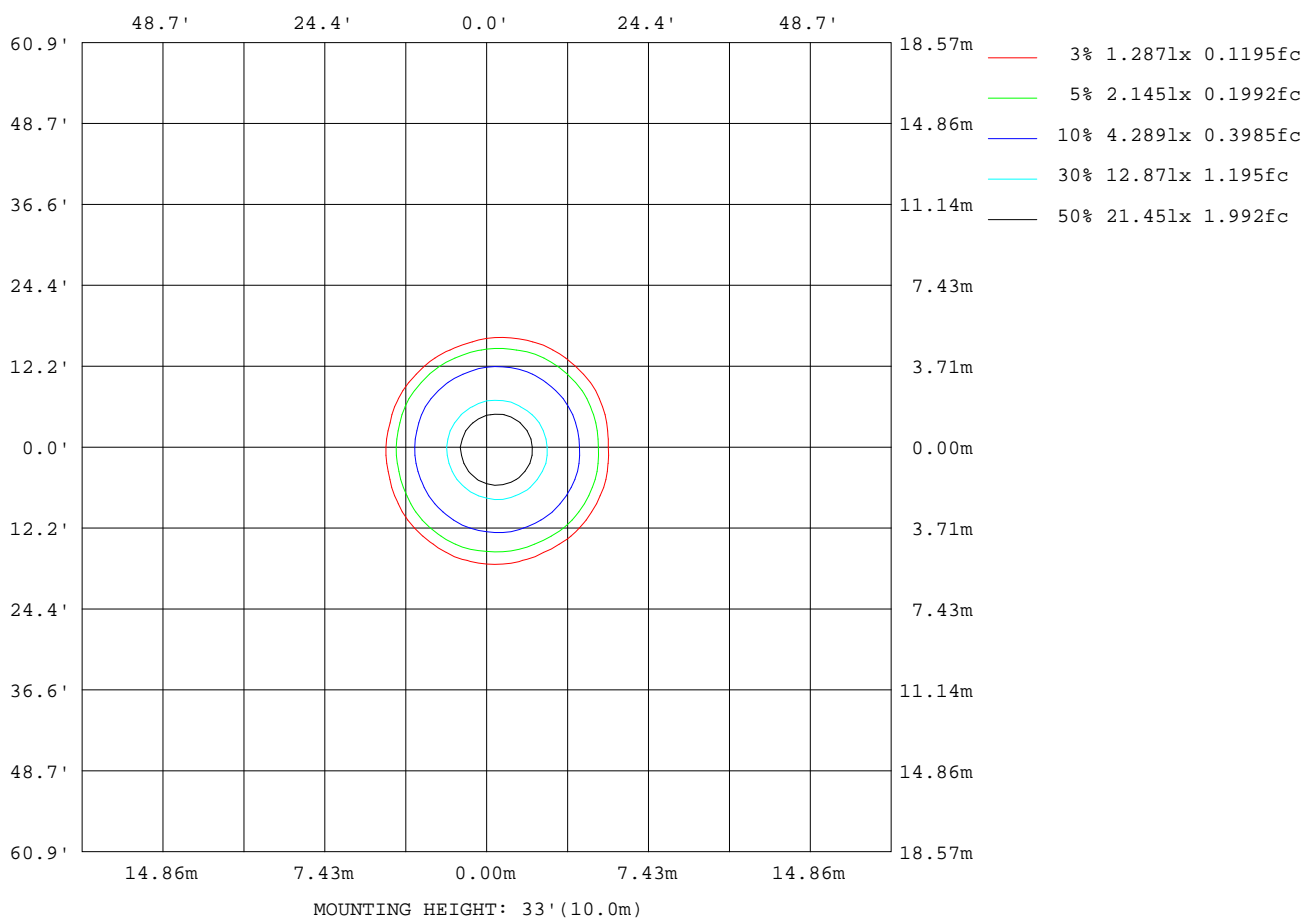
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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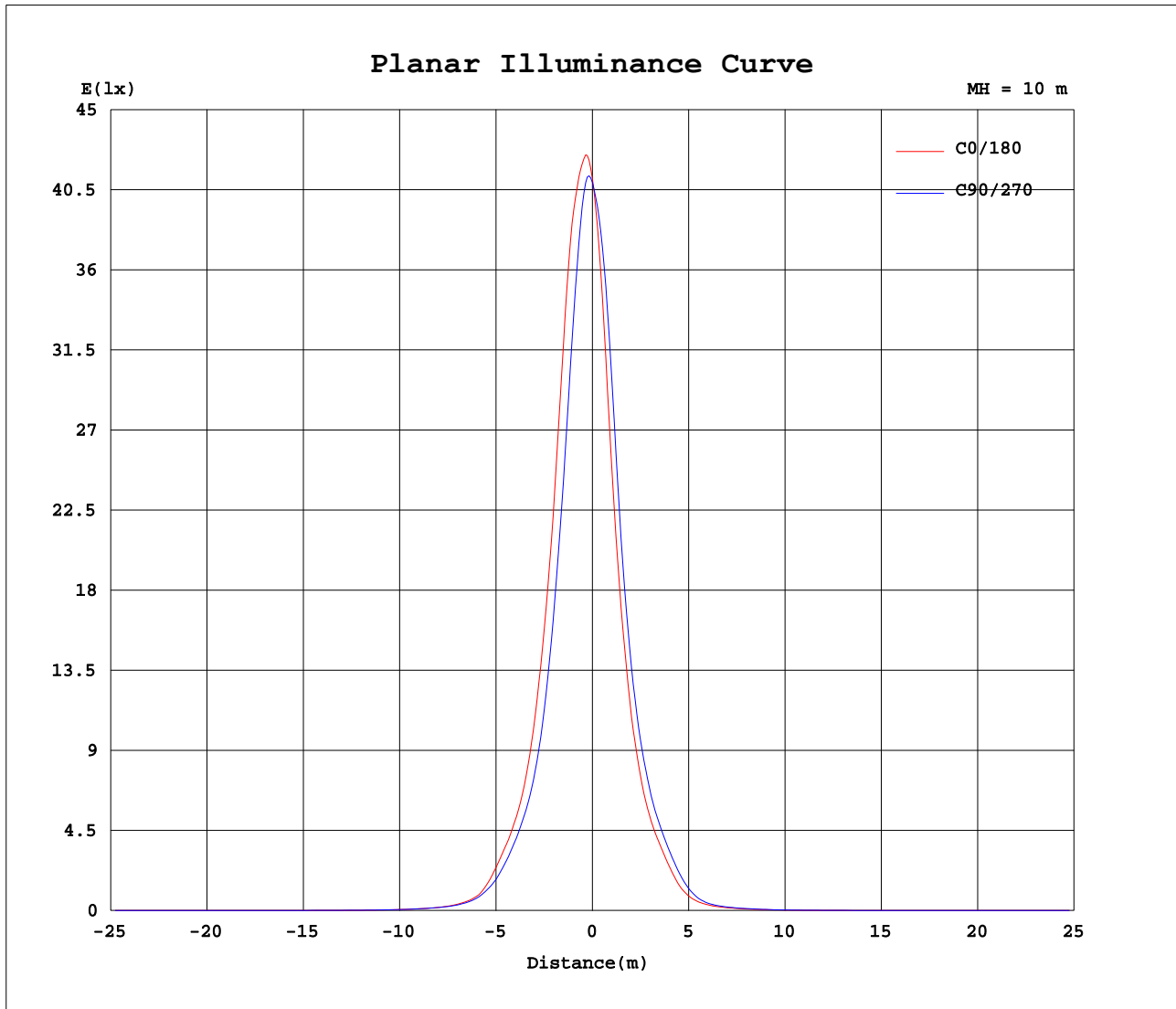
AvgL	cd/m2
L_0~180 (65) av	863
L_0~180 (75) av	157
L_0~180 (85) av	194
L_90~270 (65) av	429
L_90~270 (75) av	164
L_90~270 (85) av	195
L_45 (65) av	892
L_45 (75) av	158
L_45 (85) av	190

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:

```