

Low Voltage Track System Module ML26-RS25-5W-940-30



Light Output Ratio:	100.0%	
Luminaire Power:	5.533 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-05-08

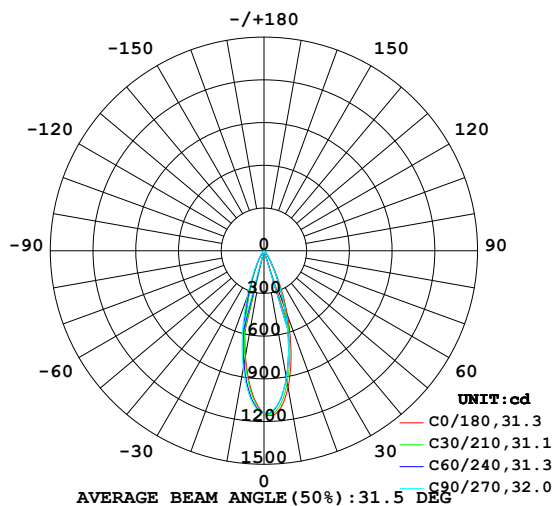
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

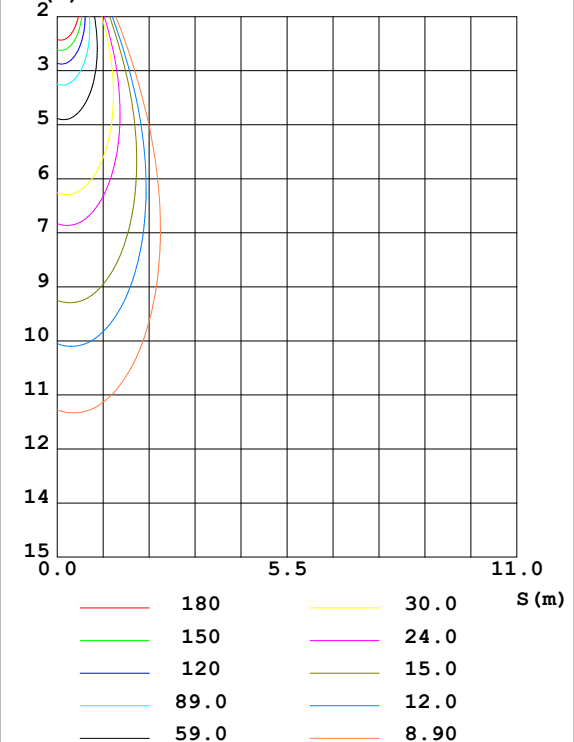
Test:U:48.00V I:0.1153A P:5.533W PF:1.000 Freq:0Hz Lamp Flux:400.115x1 lm		
NAME: ML26-RS25-5W-940-30	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: \varnothing 25mm*H40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.31 lm/W			
MODEL	OSRAM-4000K	I _{max} (cd)	1184	S/MH (C0/180)	0.45
NOMINAL POWER (W)	5	LOR (%)	100.0	S/MH (C90/270)	0.51
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	400.12	η UP, DN (C0-180)	0.0, 51.3
NOMINAL FLUX (lm)	400.115	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	48	η down (%)	100.0	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
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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	974.5	929.0	906.3	788.0	751.5	782.7	838.5	940.8	0- 10	95.03	95.03	23.8,23.8
20	480.8	440.6	422.0	320.4	282.0	294.9	342.2	438.5	10- 20	167.2	262.3	65.5,65.5
30	130.0	112.7	114.9	83.14	69.73	74.69	84.40	117.4	20- 30	94.86	357.1	89.3,89.3
40	29.92	25.77	28.02	19.04	13.80	15.55	19.94	27.57	30- 40	31.81	388.9	97.2,97.2
50	6.185	5.578	4.958	4.144	3.756	3.430	4.415	5.174	40- 50	8.342	397.3	99.3,99.3
60	1.841	1.688	1.290	0.9047	0.5421	0.6766	1.036	1.607	50- 60	2.479	399.7	99.9,99.9
70	0.0644	0.0235	0.0291	0.0156	0.0128	0.0214	0.0134	0.0515	60- 70	0.3342	400.1	100,100
80	0.0171	0.0171	0.0178	0.0156	0.0128	0.0129	0.0134	0.0156	70- 80	0.0189	400.1	100,100
90	0.0171	0.0171	0.0178	0.0156	0.0128	0.0129	0.0134	0.0112	80- 90	0.0164	400.1	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): 394.53 lm

%lum = 98.6%

%lamp = 98.6%

Conical surface Flux(120deg): 399.75 lm

%lum = 99.9%

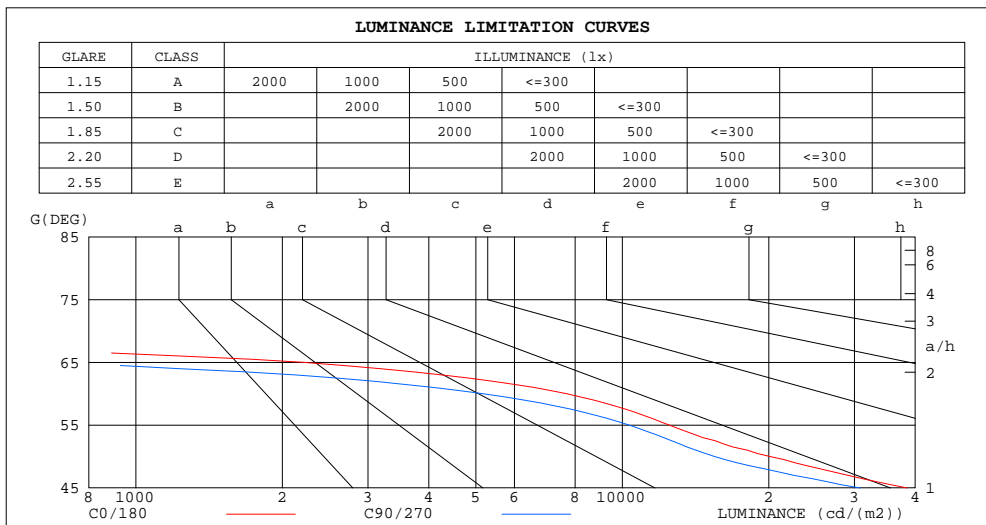
%lamp = 99.9%

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Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:48.00V I:0.1153A P:5.533W PF:1.000 Freq:0Hz Lamp Flux:400.115x1 lm		
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SPEC.:4000K	DIM.: \varnothing 25mm*H40mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	409	409
80	205	205
75	155	138
70	392	170
65	2205	743
60	7678	5165
55	12485	10324
50	20058	15444
45	38507	30841

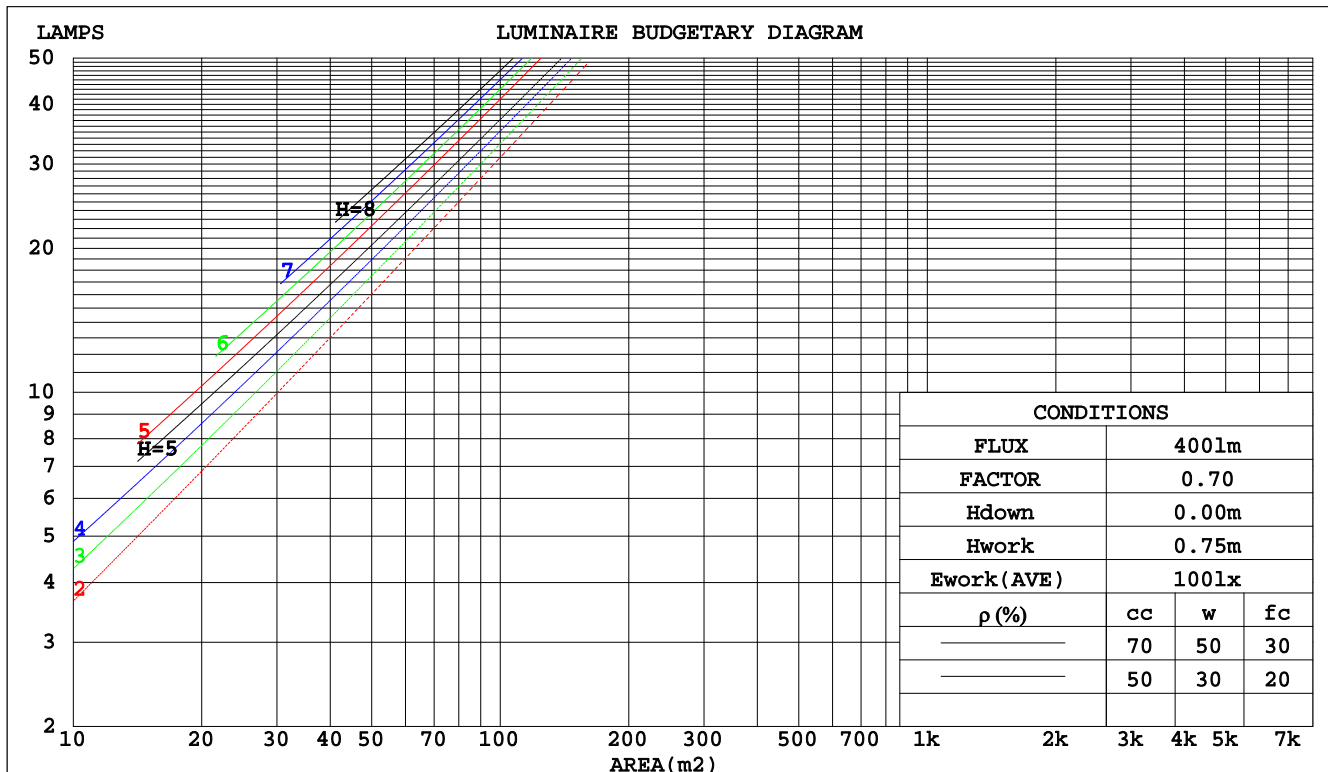
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: ML26-RS25-5W-940-30	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: $\varnothing 25\text{mm} \times \text{H}40\text{mm}$	
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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.91	.88	.95	.91	.87	.93	.89	.86	.91	.88	.85	.89	.87	.84	.83
5.0	.91	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.82	.86	.83	.81	.80
6.0	.87	.83	.79	.87	.82	.79	.85	.81	.78	.84	.81	.78	.83	.80	.77	.76
7.0	.84	.79	.76	.83	.79	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
8.0	.81	.76	.72	.80	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.70
9.0	.77	.73	.70	.77	.72	.69	.76	.72	.69	.75	.72	.69	.75	.71	.69	.68
10.0	.75	.70	.67	.74	.70	.67	.73	.69	.67	.73	.69	.66	.72	.69	.66	.65



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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	.151	.086	.027	.144	.082	.026	.132	.076	.024	.120	.069	.022	.110	.064	.020		
2.0	.142	.078	.024	.136	.075	.023	.126	.070	.022	.116	.065	.020	.107	.061	.019		
3.0	.133	.071	.021	.129	.069	.021	.120	.065	.020	.112	.061	.019	.105	.058	.018		
4.0	.126	.066	.019	.122	.064	.019	.115	.061	.018	.108	.058	.017	.102	.055	.017		
5.0	.120	.061	.018	.116	.060	.017	.110	.057	.017	.104	.055	.016	.098	.053	.016		
6.0	.114	.057	.016	.111	.056	.016	.105	.054	.016	.100	.052	.015	.095	.050	.015		
7.0	.109	.054	.015	.106	.053	.015	.101	.051	.015	.097	.050	.014	.092	.048	.014		
8.0	.104	.051	.014	.102	.050	.014	.097	.049	.014	.093	.047	.014	.089	.046	.013		
9.0	.099	.048	.013	.097	.048	.013	.094	.046	.013	.090	.045	.013	.087	.044	.013		
10.0	.095	.046	.013	.094	.045	.013	.090	.044	.012	.087	.043	.012	.084	.042	.012		

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	.169	.158	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013		
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011		
4.0	.127	.098	.077	.109	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009		
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008		
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006		
7.0	.101	.069	.046	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006		
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005		
9.0	.090	.057	.034	.077	.049	.030	.054	.034	.021	.031	.020	.013	.010	.007	.004		
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-08

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:0.1153A P:5.533W PF:1.000 Freq:0Hz Lamp Flux:400.115x1 lm										
NAME: ML26-RS25-5W-940-30					TYPE:Low Voltage Track System Module					
SPEC.:4000K					DIM.: \varnothing 25mm*H40mm					
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	21.9	22.7	22.1	22.8	23.0	20.9	21.7	21.2	21.9	22.0
3H	21.8	22.5	22.0	22.6	22.8	20.8	21.5	21.0	21.7	21.9
4H	21.7	22.3	21.9	22.6	22.8	20.7	21.4	21.0	21.6	21.8
6H	21.6	22.2	21.9	22.5	22.7	20.6	21.2	20.9	21.5	21.7
8H	21.5	22.2	21.8	22.4	22.7	20.6	21.2	20.9	21.4	21.7
12H	21.5	22.1	21.8	22.3	22.6	20.5	21.1	20.8	21.4	21.6
4H 2H	21.7	22.4	22.0	22.6	22.8	20.7	21.4	21.0	21.6	21.8
3H	21.5	22.1	21.8	22.4	22.6	20.6	21.1	20.9	21.4	21.7
4H	21.4	22.0	21.8	22.2	22.6	20.5	21.0	20.8	21.3	21.6
6H	21.3	21.8	21.7	22.1	22.5	20.4	20.8	20.7	21.2	21.5
8H	21.3	21.7	21.7	22.1	22.4	20.3	20.7	20.7	21.1	21.5
12H	21.2	21.6	21.6	22.0	22.4	20.3	20.7	20.7	21.0	21.4
8H 4H	21.3	21.7	21.7	22.1	22.4	20.3	20.7	20.7	21.1	21.5
6H	21.2	21.5	21.6	21.9	22.3	20.2	20.6	20.6	21.0	21.4
8H	21.1	21.4	21.6	21.8	22.3	20.1	20.5	20.6	20.9	21.3
12H	21.0	21.3	21.5	21.8	22.2	20.1	20.4	20.6	20.8	21.3
12H 4H	21.2	21.6	21.6	22.0	22.4	20.3	20.7	20.7	21.0	21.4
6H	21.1	21.4	21.6	21.8	22.3	20.1	20.5	20.6	20.9	21.3
8H	21.0	21.3	21.5	21.8	22.2	20.1	20.4	20.6	20.8	21.3
Variations with the observer position at spacings:										
S = 1.0H	+ 3.6 / - 8.9					+ 3.7 / - 9.5				
1.5H	+ 5.6 / - 6.8					+ 5.7 / - 6.3				
2.0H	+ 5.6 / - 8.9					+ 5.0 / - 9.5				

CIE Pub.117, 400.1 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -3.2$)

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 γ Interval: 0.5DEG
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Humidity:58%
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Remarks:

UTILIZATION FACTORS TABLE

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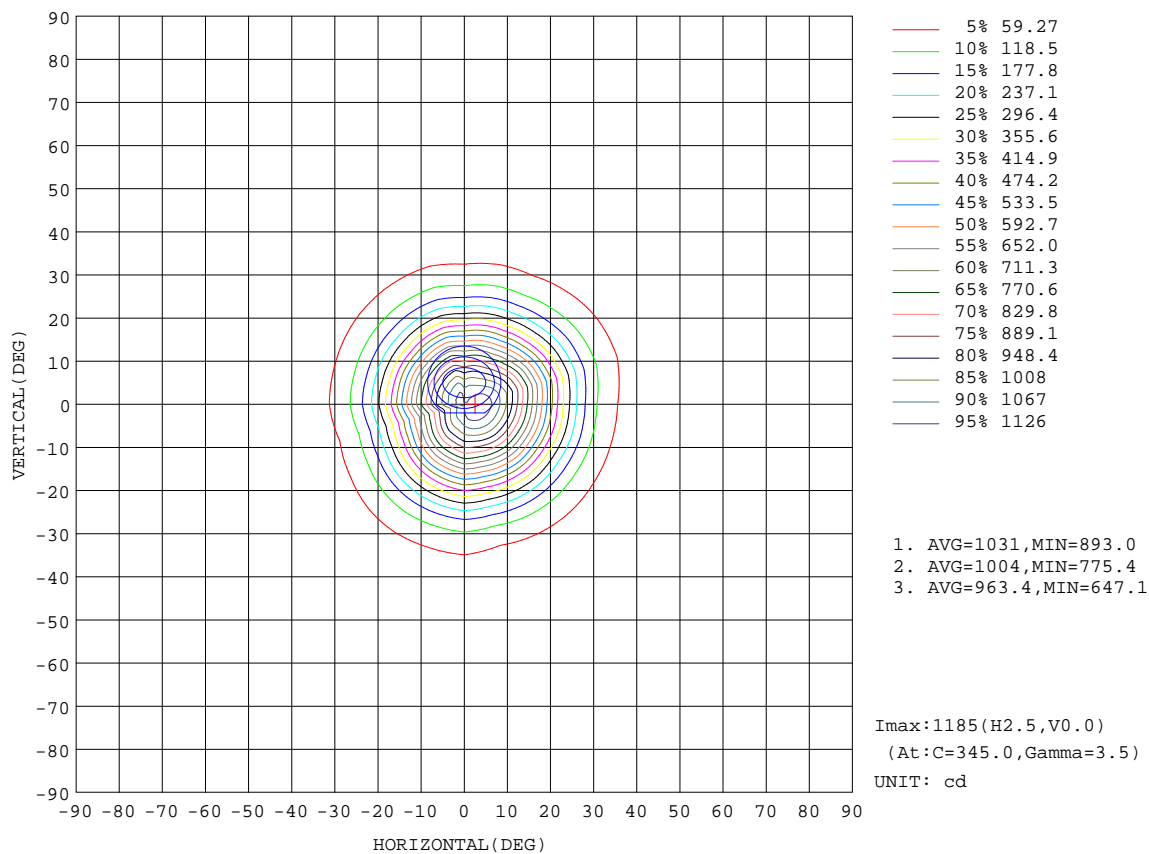
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	84	80	89	83	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	92
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	116	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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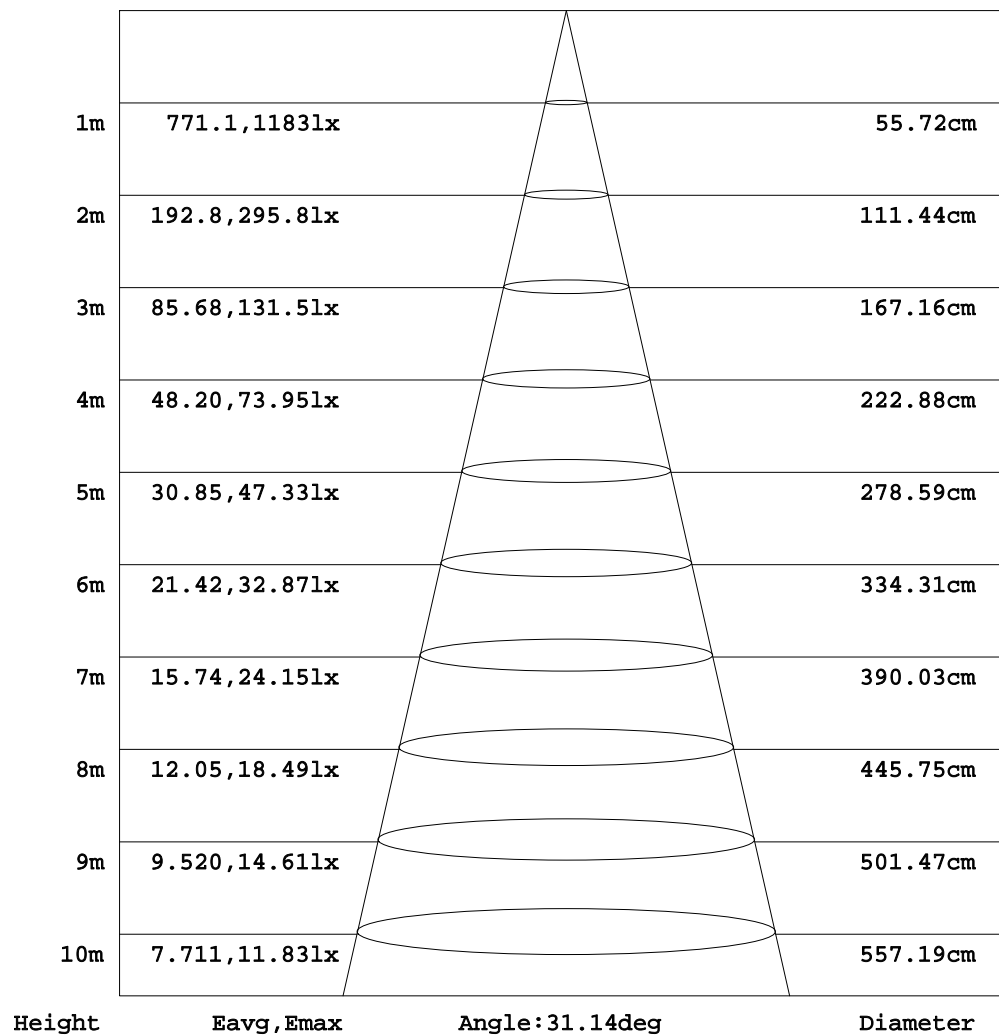
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AAI Figure

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Flux out:199.2 lm



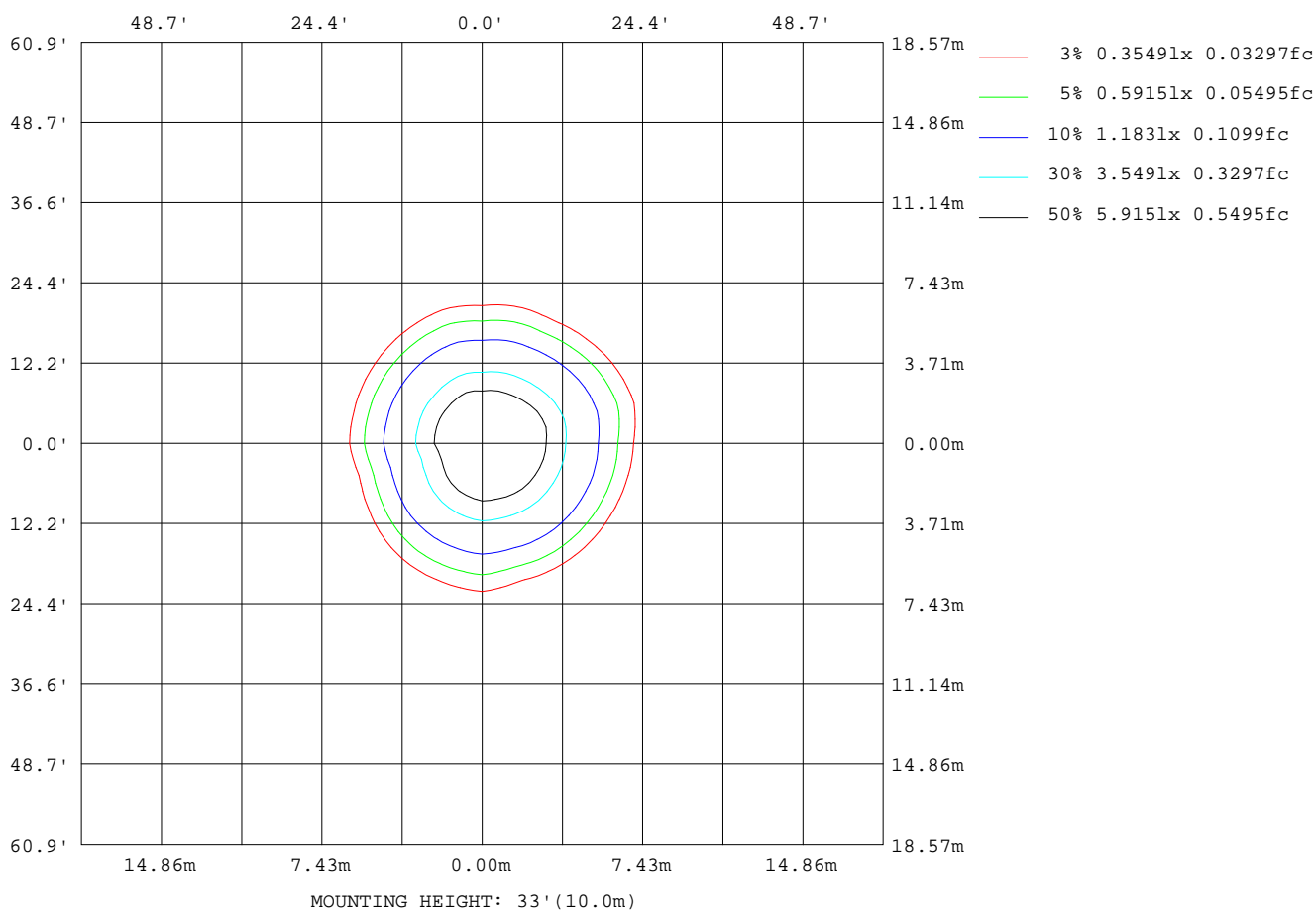
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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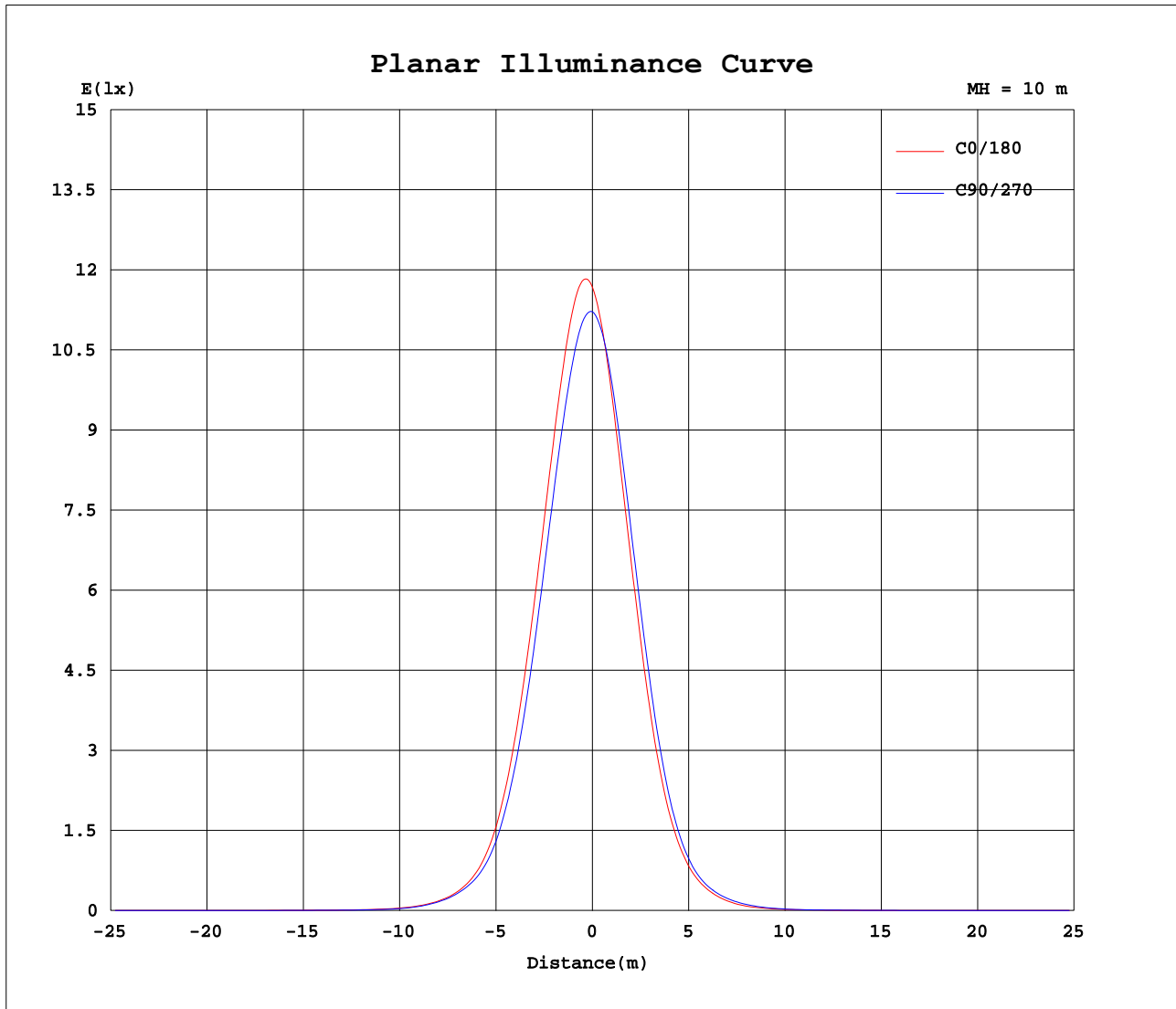
AvgL	cd/m2
L_0~180 (65) av	1186
L_0~180 (75) av	126
L_0~180 (85) av	350
L_90~270 (65) av	613
L_90~270 (75) av	123
L_90~270 (85) av	364
L_45 (65) av	952
L_45 (75) av	138
L_45 (85) av	345

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-08

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: 2020-05-08

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:

```