

Low Voltage Track System Module ML26-RS25-5W-930-30



Light Output Ratio:	100.0%	
Luminaire Power:	5.27 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 Long
Test Date: 2019-12-03

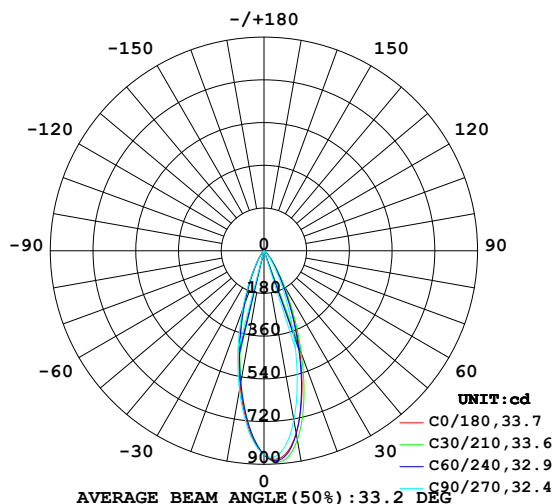
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 56%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

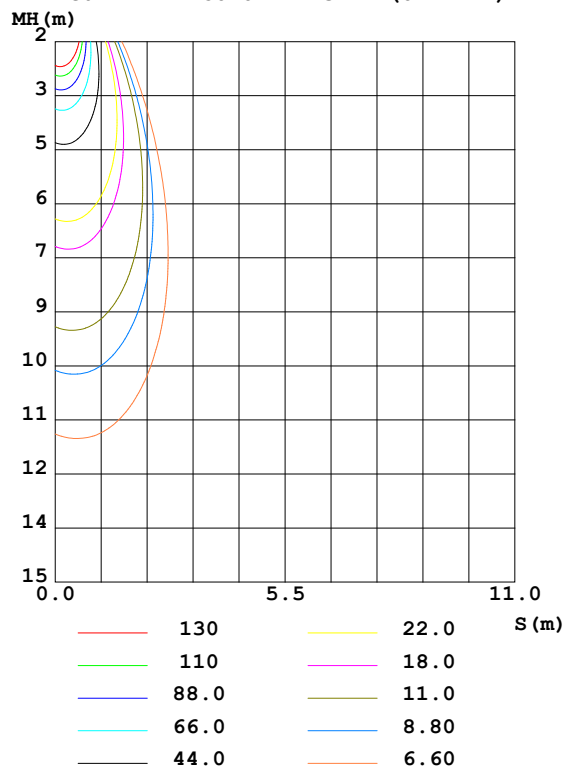
Test:U:48.00V I:0.1098A P:5.270W PF:1.000 Freq:0Hz Lamp Flux:350.74lx1 lm		
NAME: ML26-RS25-5W-930-30	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: \varnothing 25mm*H40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.55 lm/W			
MODEL	OSRAM-3000K	I _{max} (cd)	894.5	S/MH (C0/180)	0.47
NOMINAL POWER (W)	5	LOR (%)	100.0	S/MH (C90/270)	0.49
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	350.74	η UP,DN (C0-180)	0.0,56.2
NOMINAL FLUX (lm)	350.741	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,43.8
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
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γ Range: 0 - 90DEG
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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	781.0	810.0	724.5	638.1	579.6	557.2	595.2	675.5	0- 10	72.61	72.61	20.7,20.7
20	435.7	454.7	357.3	284.8	249.6	234.8	267.0	336.4	10- 20	135.5	208.2	59.3,59.3
30	158.1	165.4	117.3	85.98	73.85	62.67	71.39	105.8	20- 30	90.10	298.3	85,85
40	45.22	48.66	34.95	22.69	18.05	13.50	16.27	26.86	30- 40	35.88	334.1	95.3,95.3
50	11.31	10.69	6.877	5.821	5.387	4.373	5.190	7.655	40- 50	11.78	345.9	98.6,98.6
60	3.156	2.742	2.240	1.860	1.655	1.537	1.936	2.551	50- 60	3.653	349.6	99.7,99.7
70	0.6309	0.4603	0.1101	0.1112	0.1124	0.0792	0.0523	0.3626	60- 70	1.075	350.7	100,100
80	0.0349	0.0131	0.0284	0.0131	0.0065	0.0131	0.0044	0.0285	70- 80	0.0735	350.7	100,100
90	0.0152	0.0109	0.0131	0.0131	0.0065	0.0066	0.0044	0.0066	80- 90	0.0129	350.7	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): 341.76 lm

%lum = 97.4%

%lamp = 97.4%

Conical surface Flux(120deg): 349.58 lm

%lum = 99.7%

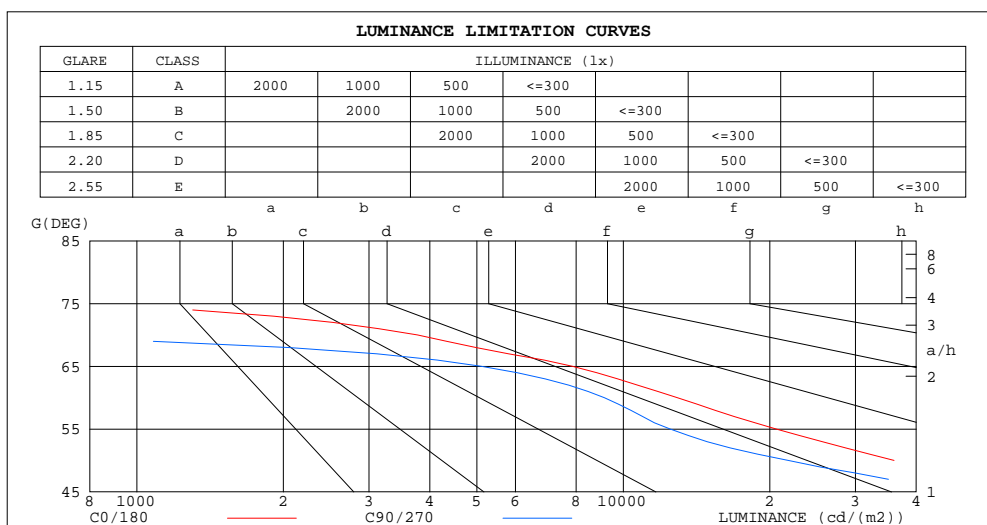
%lamp = 99.7%

C Range: 0 - 360DEG
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.: ϕ 25mm*H40mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	461	460
80	411	334
75	748	380
70	3774	656
65	7860	5107
60	12914	9136
55	20615	12486
50	36009	21820
45	66913	47962

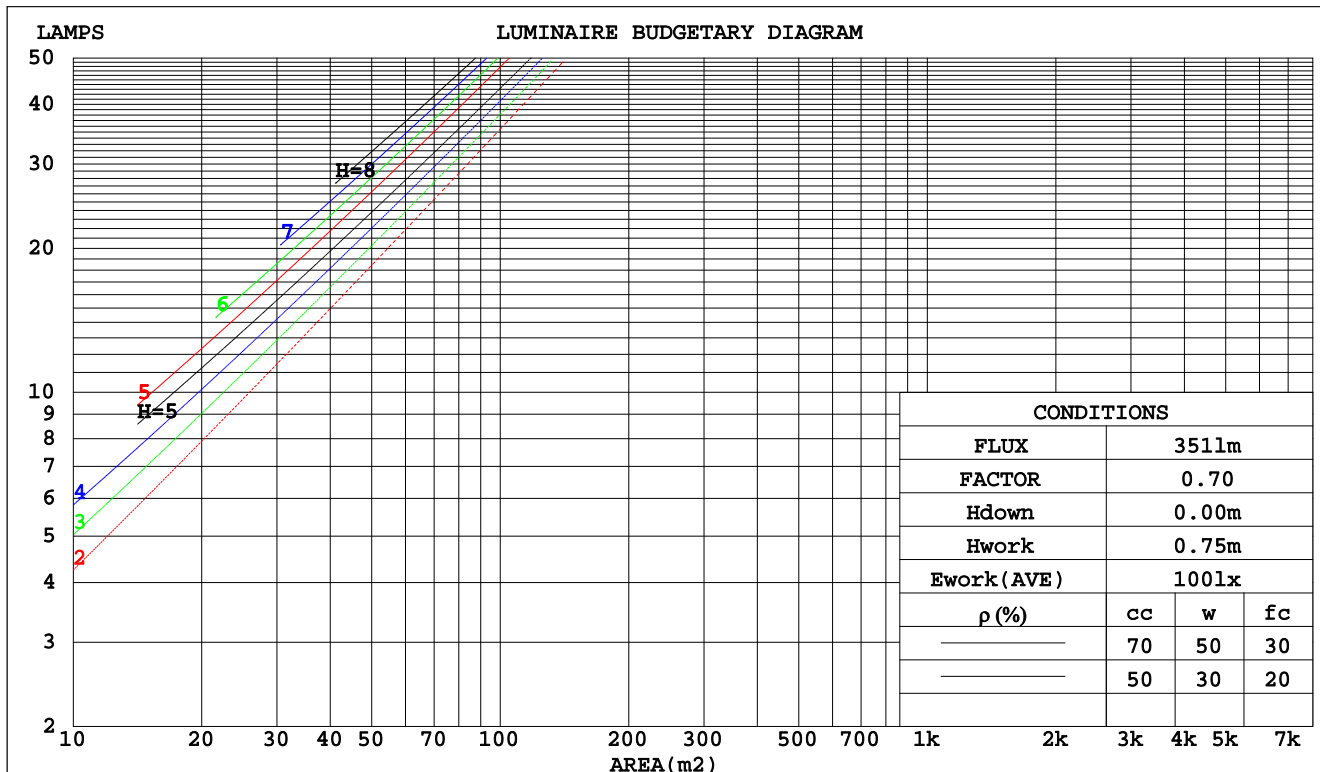
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.05	1.02	.99	1.04	1.00	.98	1.00	.98	.96	.98	.95	.94	.95	.93	.92	.90
3.0	.99	.95	.92	.98	.94	.91	.96	.92	.90	.93	.91	.88	.91	.89	.87	.85
4.0	.94	.90	.86	.93	.89	.85	.91	.87	.84	.89	.86	.83	.87	.85	.83	.81
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.85	.82	.79	.84	.81	.79	.77
6.0	.85	.80	.77	.85	.80	.76	.83	.79	.76	.82	.78	.75	.81	.77	.75	.74
7.0	.81	.76	.73	.81	.76	.73	.80	.75	.72	.79	.75	.72	.77	.74	.71	.70
8.0	.78	.73	.69	.77	.73	.69	.76	.72	.69	.75	.71	.69	.75	.71	.68	.67
9.0	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.69	.66	.72	.68	.66	.64
10.0	.72	.67	.63	.71	.67	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.62



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WEC AND CCEC

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MFR.: NEKO LIGHTING AG		

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	.158	.090	.028	.151	.086	.027	.139	.080	.025	.127	.073	.024	.117	.068	.022		
2.0	.149	.082	.025	.144	.079	.024	.133	.074	.023	.124	.069	.022	.115	.065	.020		
3.0	.141	.075	.022	.136	.073	.022	.128	.069	.021	.119	.065	.020	.112	.062	.019		
4.0	.134	.069	.020	.130	.068	.020	.122	.065	.019	.115	.062	.019	.109	.059	.018		
5.0	.127	.065	.019	.123	.063	.018	.117	.061	.018	.111	.059	.017	.105	.056	.017		
6.0	.121	.061	.017	.118	.059	.017	.112	.057	.017	.107	.056	.016	.102	.054	.016		
7.0	.115	.057	.016	.113	.056	.016	.108	.054	.016	.103	.053	.015	.099	.051	.015		
8.0	.110	.054	.015	.108	.053	.015	.103	.052	.015	.099	.050	.015	.095	.049	.014		
9.0	.106	.051	.014	.103	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.014		
10.0	.101	.049	.013	.099	.048	.013	.096	.047	.013	.093	.046	.013	.089	.045	.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	.153	.133	.115	.131	.114	.100	.090	.079	.069	.052	.046	.041	.017	.015	.013		
3.0	.140	.113	.093	.120	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011		
4.0	.128	.098	.076	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009		
5.0	.119	.086	.063	.102	.075	.054	.070	.052	.038	.041	.031	.023	.013	.010	.008		
6.0	.111	.077	.053	.095	.067	.046	.066	.047	.032	.038	.027	.019	.012	.009	.006		
7.0	.104	.069	.045	.089	.060	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005		
8.0	.098	.063	.038	.084	.054	.033	.058	.038	.024	.034	.022	.014	.011	.007	.005		
9.0	.093	.057	.033	.080	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004		
10.0	.088	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG
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Test Date:2019-12-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.1098A P:5.270W PF:1.000 Freq:0Hz Lamp Flux:350.74lx1 lm										
NAME: ML26-RS25-5W-930-30					TYPE:Low Voltage Track System Module					
SPEC.:3000K					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	26.1	26.9	26.3	27.0	27.2	24.6	25.4	24.8	25.6	25.8
3H	25.9	26.7	26.2	26.9	27.1	24.5	25.2	24.7	25.4	25.6
4H	25.8	26.5	26.1	26.8	27.0	24.4	25.1	24.7	25.3	25.5
6H	25.8	26.4	26.0	26.7	26.9	24.3	25.0	24.6	25.2	25.5
8H	25.7	26.3	26.0	26.6	26.9	24.3	24.9	24.6	25.2	25.4
12H	25.7	26.3	26.0	26.5	26.8	24.2	24.8	24.5	25.1	25.4
4H 2H	25.8	26.6	26.1	26.8	27.0	24.4	25.1	24.7	25.4	25.6
3H	25.7	26.3	26.0	26.6	26.8	24.3	24.9	24.6	25.2	25.4
4H	25.6	26.2	25.9	26.5	26.8	24.2	24.7	24.5	25.0	25.3
6H	25.5	26.0	25.9	26.3	26.7	24.1	24.6	24.5	24.9	25.2
8H	25.5	25.9	25.8	26.3	26.6	24.0	24.5	24.4	24.8	25.2
12H	25.4	25.8	25.8	26.2	26.6	24.0	24.4	24.4	24.8	25.1
8H 4H	25.5	25.9	25.8	26.3	26.6	24.0	24.5	24.4	24.8	25.2
6H	25.3	25.7	25.8	26.1	26.5	23.9	24.3	24.3	24.7	25.1
8H	25.3	25.6	25.7	26.0	26.5	23.9	24.2	24.3	24.6	25.1
12H	25.2	25.5	25.7	26.0	26.4	23.8	24.1	24.3	24.5	25.0
12H 4H	25.4	25.8	25.8	26.2	26.6	24.0	24.4	24.4	24.8	25.2
6H	25.3	25.6	25.7	26.0	26.5	23.9	24.2	24.3	24.6	25.1
8H	25.2	25.5	25.7	26.0	26.4	23.8	24.1	24.3	24.5	25.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / - 8.7					+ 2.6 / - 9.6				
1.5H	+ 4.3 / - 7.3					+ 4.2 / - 7.2				
2.0H	+ 5.5 / - 6.3					+ 5.5 / - 5.2				

CIE Pub.117, 350.7 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -3.6$)

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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

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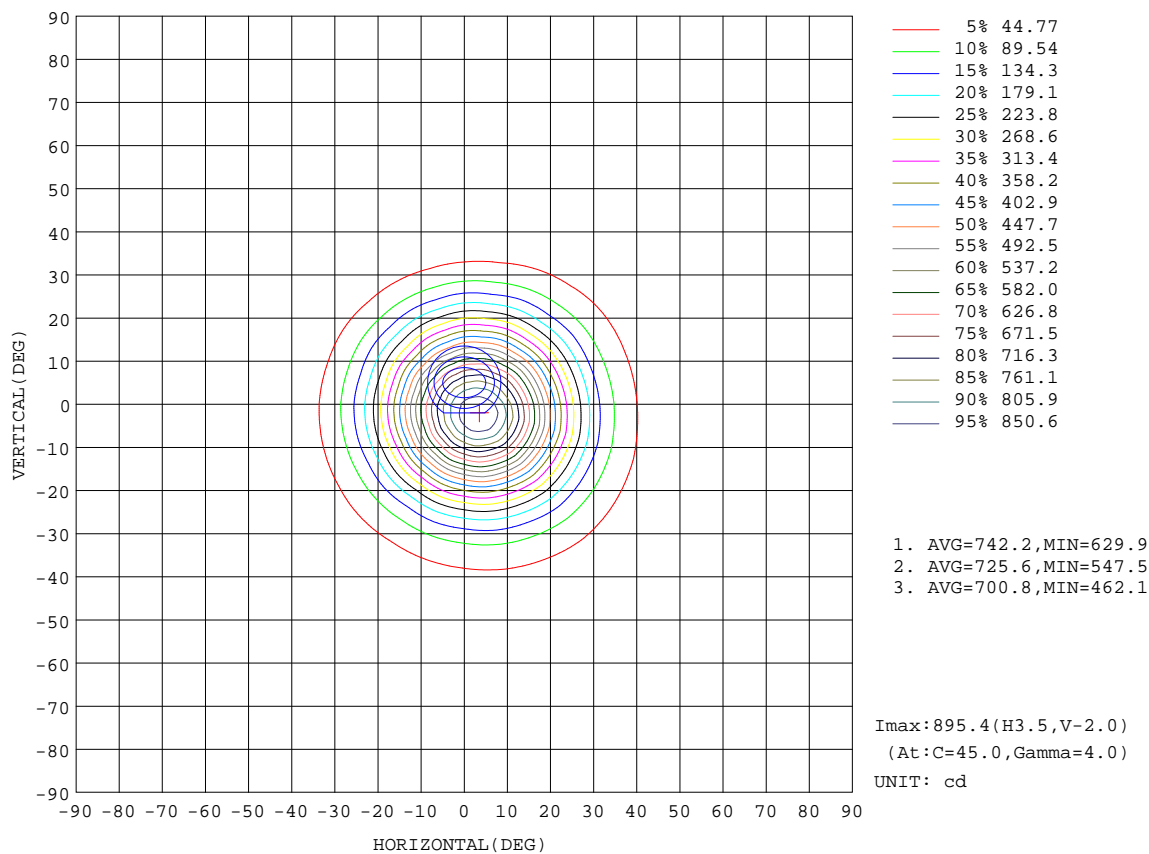
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	82	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	98	94	90	87
1.25	104	99	96	103	98	95	101	97	95	90
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
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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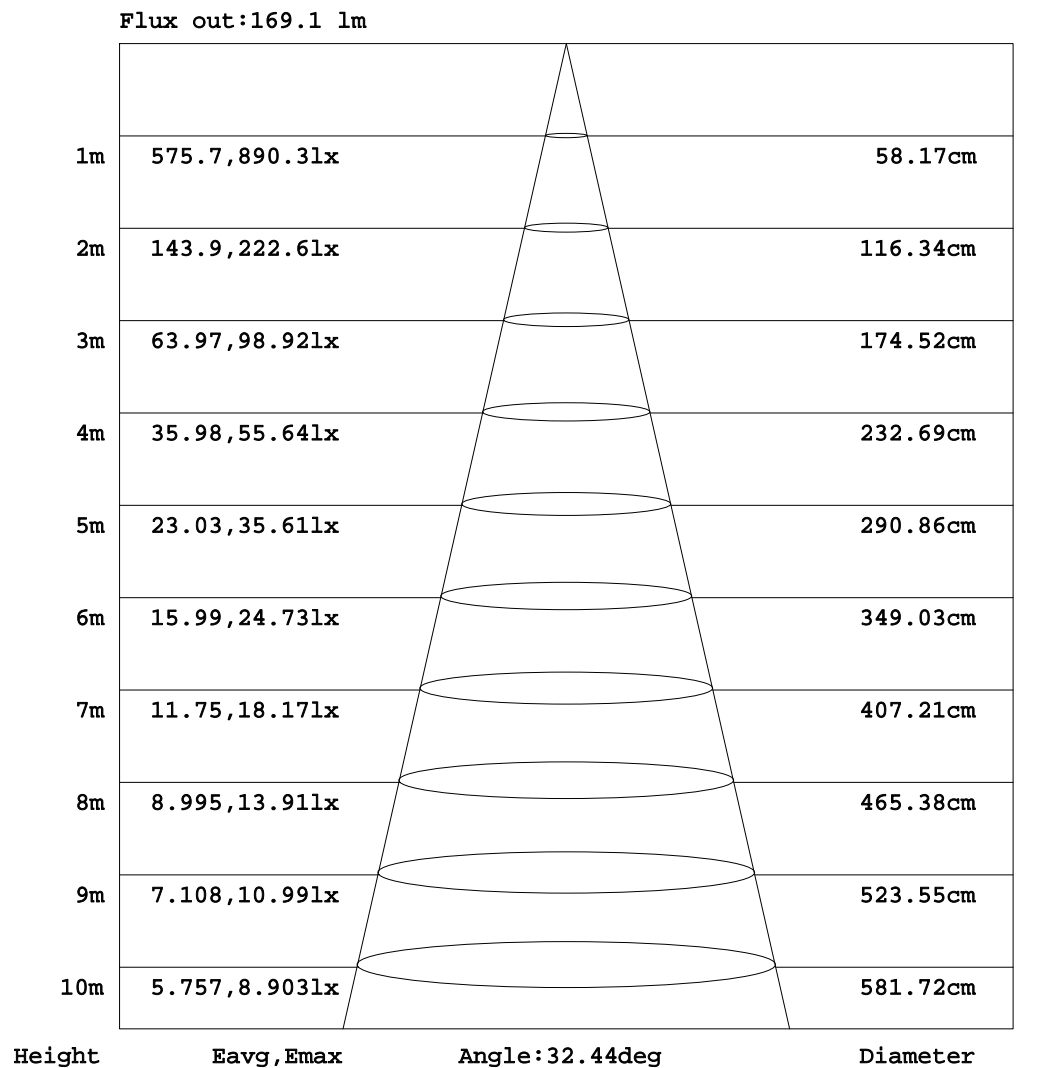


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AAI Figure

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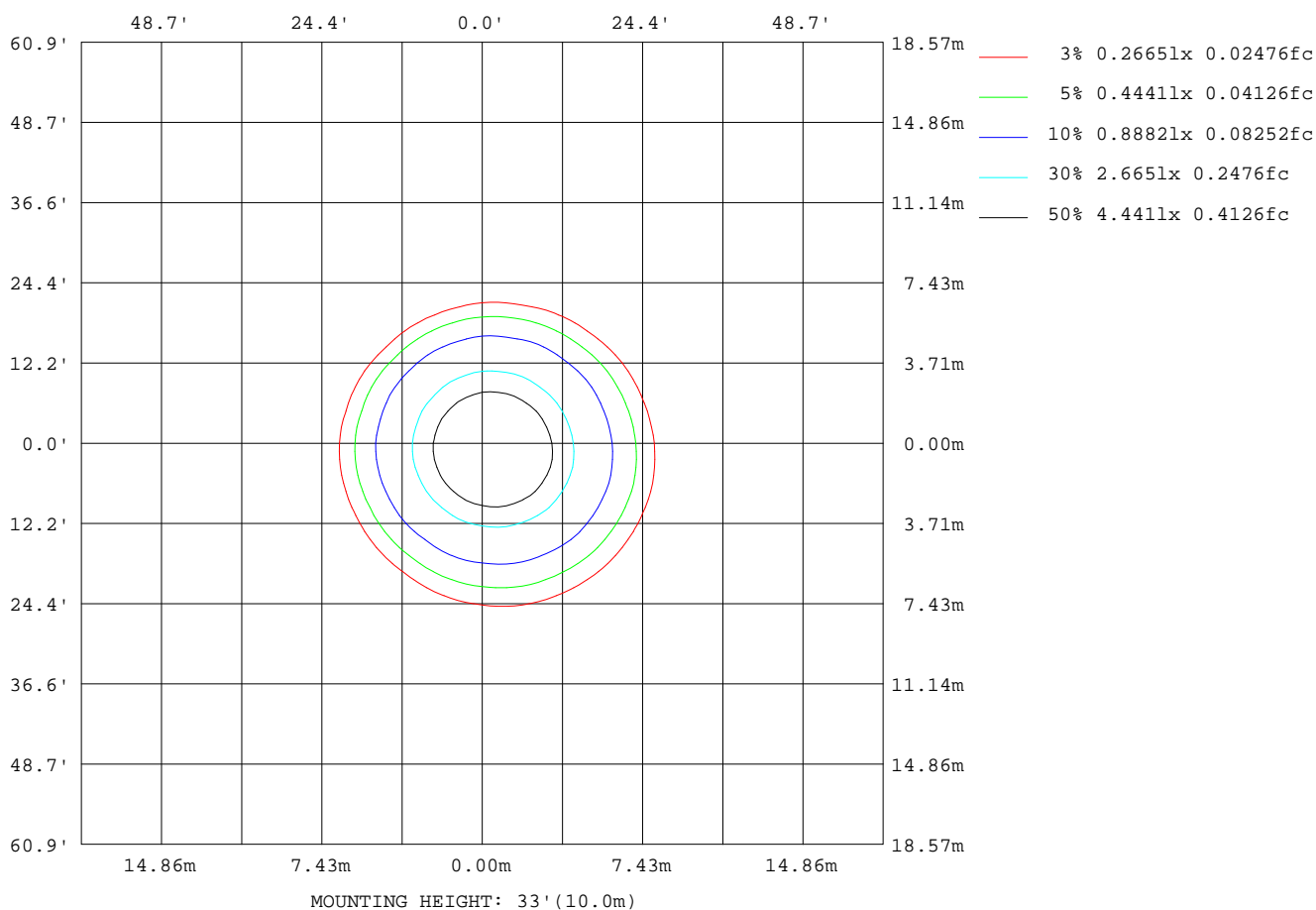
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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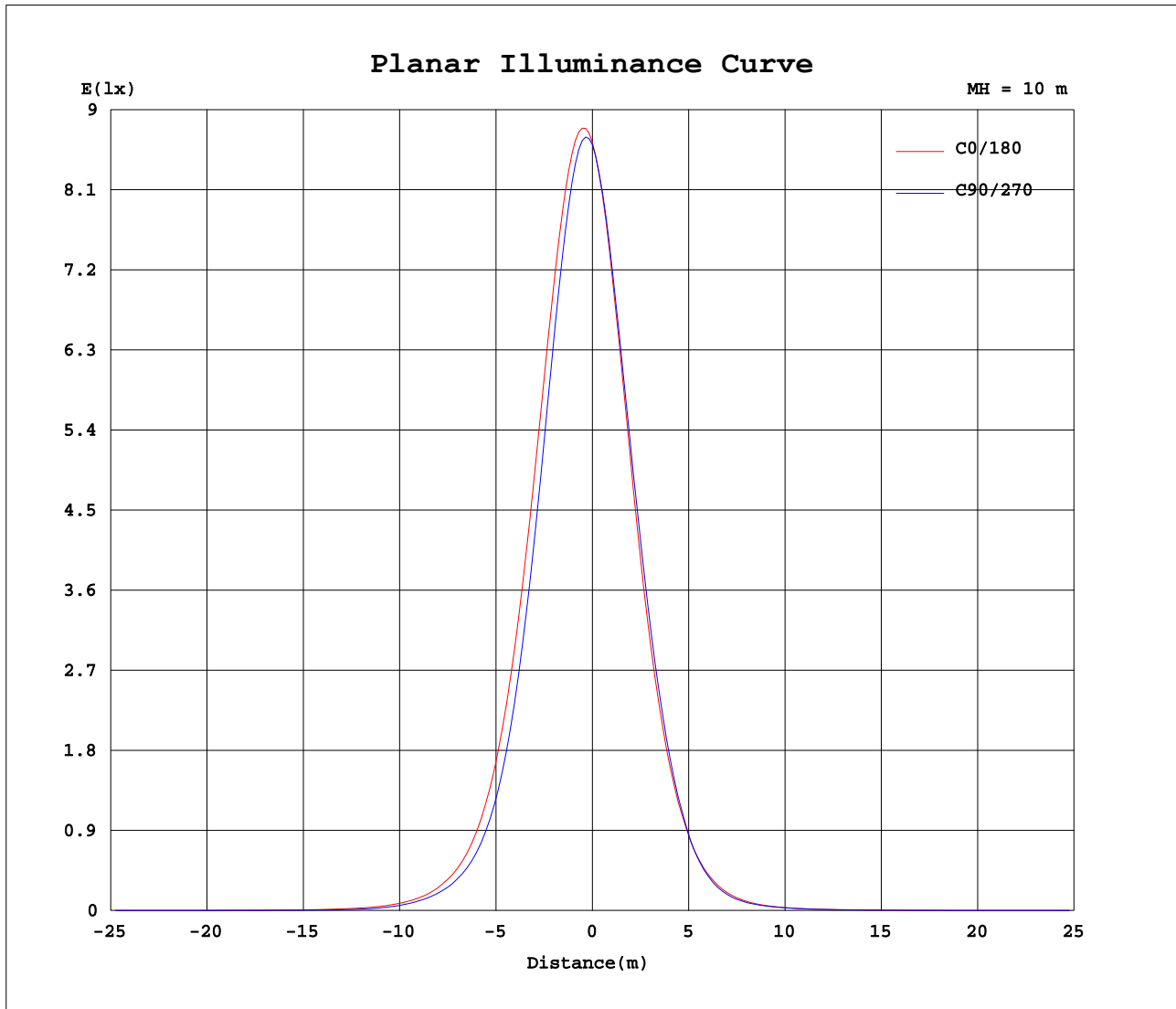
AvgL	cd/m2
L_0~180 (65) av	5615
L_0~180 (75) av	398
L_0~180 (85) av	306
L_90~270 (65) av	4449
L_90~270 (75) av	250
L_90~270 (85) av	281
L_45 (65) av	4965
L_45 (75) av	272
L_45 (85) av	256

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-12-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
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 Long
Test Date: 2019-12-03

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 56%
Test Distance: 5.850m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:56%
Test Distance:5.850m [K=1.0000]
Remarks:

```