

Low Voltage Track System Module ML26-RS25-5W-927-45



Light Output Ratio:	100.0%	
Luminaire Power:	5.107 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-05-11

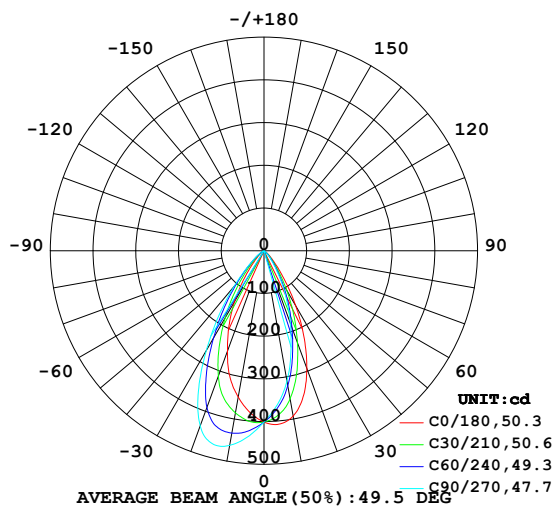
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

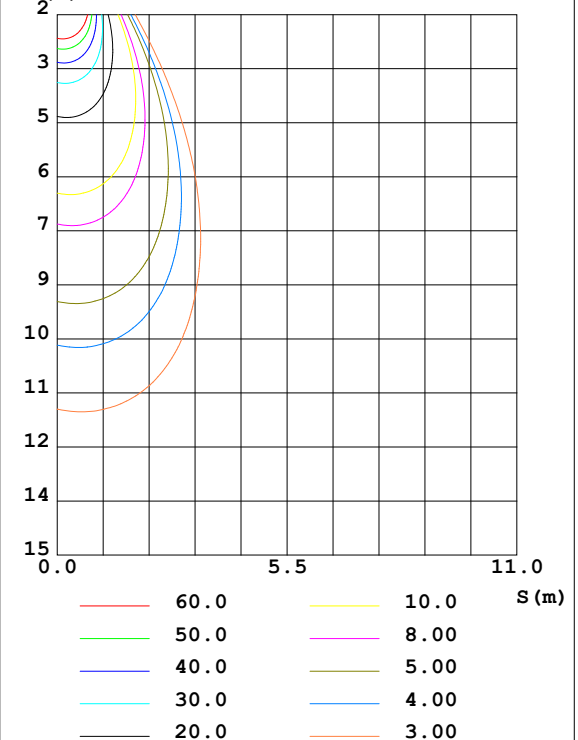
Test:U:48.00V I:0.1064A P:5.107W PF:1.000 Freq:0Hz Lamp Flux:328.997x1 lm		
NAME: ML26-RS25-5W-927-45	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: $\varnothing 25\text{mm} \times \text{H}40\text{mm}$	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 64.42 lm/W			
MODEL	OSRAM-2700K	I _{max} (cd)	474.6	S/MH (C0/180)	0.75
NOMINAL POWER (W)	5	LOR (%)	100.0	S/MH (C90/270)	0.99
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	329.00	η UP,DN (C0-180)	0.0,35.4
NOMINAL FLUX (lm)	328.997	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,64.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	48	η down (%)	100.0	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2020-05-11

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:58%
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 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	393.1	335.3	309.6	319.8	347.8	408.2	462.5	442.7	0- 10	37.28	37.28	11.3,11.3
20	293.5	208.6	180.4	200.9	250.7	349.7	436.5	399.4	10- 20	95.30	132.6	40.3,40.3
30	148.7	93.70	76.69	91.37	138.1	207.6	271.0	233.2	20- 30	102.6	235.2	71.5,71.5
40	45.93	29.52	23.44	27.02	46.17	84.48	109.1	81.07	30- 40	62.57	297.8	90.5,90.5
50	12.39	7.130	5.146	6.902	12.92	23.81	29.85	20.80	40- 50	23.86	321.6	97.8,97.8
60	0.9891	0.2976	0.1280	0.1839	1.308	5.519	7.462	4.003	50- 60	6.504	328.1	99.7,99.7
70	0.0376	0.0199	0.0241	0.0193	0.0177	0.2200	0.4069	0.0926	60- 70	0.8231	328.9	100,100
80	0.0199	0.0199	0.0220	0.0193	0.0155	0.0243	0.0154	0.0173	70- 80	0.0365	329.0	100,100
90	0.0199	0.0199	0.0220	0.0193	0.0155	0.0155	0.0154	0.0150	80- 90	0.0198	329.0	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): 313 lm

%lum = 95.1%

%lamp = 95.1%

Conical surface Flux(120deg): 328.12 lm

%lum = 99.7%

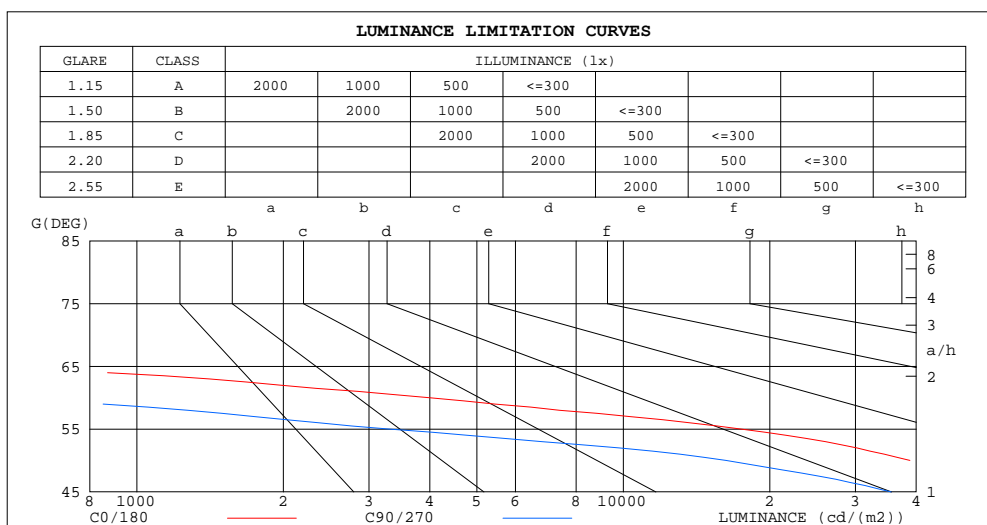
%lamp = 99.7%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-11

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:

LUMINANCE LIMITATION CURVES

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SPEC.:2700K	DIM.: ϕ 25mm*H40mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	460	511
80	231	257
75	189	172
70	221	143
65	583	180
60	3982	520
55	17434	3297
50	38808	16253
45	68501	35525

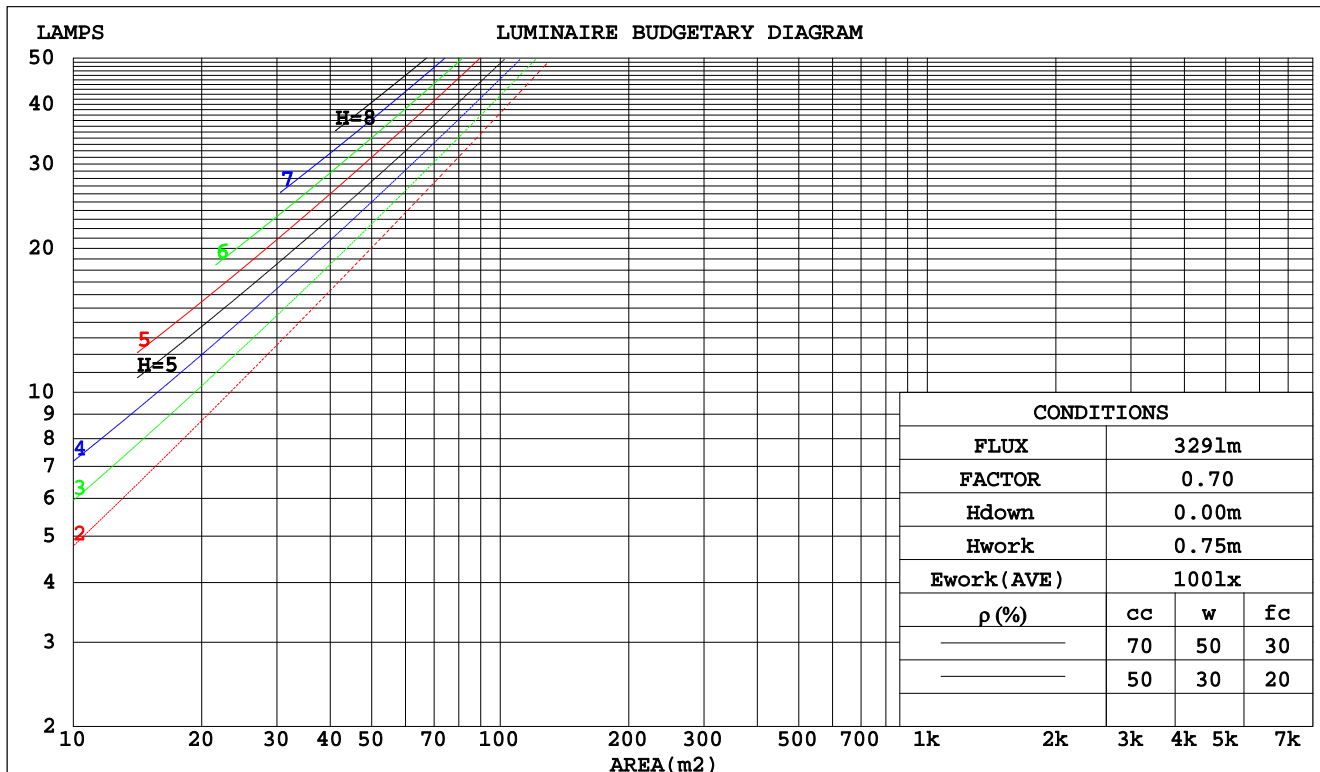
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:2700K	DIM.: ϕ 25mm*H40mm	
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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	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	1.11	1.08	1.06	1.09	1.06	1.04	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94
2.0	1.03	.99	.96	1.01	.98	.95	.98	.95	.93	.95	.93	.91	.92	.90	.89	.87
3.0	.96	.91	.87	.95	.90	.87	.92	.88	.85	.90	.87	.84	.87	.85	.83	.81
4.0	.90	.84	.80	.89	.84	.80	.87	.82	.79	.85	.81	.78	.83	.80	.77	.75
5.0	.84	.78	.74	.83	.78	.74	.81	.77	.73	.80	.76	.72	.78	.75	.72	.70
6.0	.79	.73	.69	.78	.73	.69	.77	.72	.68	.75	.71	.68	.74	.70	.67	.66
7.0	.74	.68	.64	.74	.68	.64	.72	.67	.64	.71	.67	.63	.70	.66	.63	.62
8.0	.70	.64	.60	.70	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.66	.60	.56	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.54
10.0	.63	.57	.53	.62	.57	.53	.61	.56	.53	.61	.56	.53	.60	.56	.53	.51



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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	.177	.101	.032	.170	.097	.031	.158	.091	.029	.146	.084	.027	.136	.079	.025		
2.0	.170	.093	.029	.165	.091	.028	.154	.086	.027	.144	.081	.025	.135	.076	.024		
3.0	.162	.086	.026	.158	.084	.025	.149	.081	.024	.140	.077	.024	.132	.073	.023		
4.0	.155	.081	.024	.151	.079	.023	.143	.076	.023	.136	.073	.022	.129	.070	.021		
5.0	.148	.075	.022	.144	.074	.022	.137	.072	.021	.131	.069	.021	.125	.067	.020		
6.0	.141	.071	.020	.138	.070	.020	.132	.068	.020	.126	.066	.019	.121	.064	.019		
7.0	.135	.067	.019	.132	.066	.019	.127	.064	.018	.122	.062	.018	.117	.061	.018		
8.0	.129	.063	.018	.127	.062	.018	.122	.061	.017	.117	.059	.017	.113	.058	.017		
9.0	.124	.060	.017	.121	.059	.017	.117	.058	.016	.113	.057	.016	.109	.056	.016		
10.0	.119	.057	.016	.117	.056	.016	.113	.055	.016	.109	.054	.015	.106	.053	.015		

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	.171	.157	.145	.146	.135	.125	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.113	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.123	.098	.078	.085	.068	.054	.049	.040	.032	.016	.013	.011	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.107	.076	.052	.074	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.050	.101	.068	.043	.070	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.111	.070	.042	.096	.061	.037	.066	.043	.026	.038	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-11

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:0.1064A P:5.107W PF:1.000 Freq:0Hz Lamp Flux:328.997x1 lm										
NAME: ML26-RS25-5W-927-45					TYPE:Low Voltage Track System Module					
SPEC.:2700K					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	24.5	25.5	24.8	25.7	25.8	21.7	22.6	21.9	22.8	22.9
3H	24.4	25.2	24.6	25.4	25.6	21.5	22.4	21.7	22.6	22.8
4H	24.3	25.1	24.5	25.3	25.5	21.4	22.2	21.7	22.4	22.7
6H	24.2	25.0	24.5	25.2	25.4	21.3	22.1	21.6	22.3	22.6
8H	24.1	24.9	24.4	25.1	25.4	21.3	22.0	21.6	22.3	22.5
12H	24.1	24.8	24.4	25.1	25.3	21.2	21.9	21.5	22.2	22.5
4H 2H	24.3	25.1	24.6	25.3	25.5	21.4	22.2	21.7	22.5	22.7
3H	24.1	24.8	24.4	25.1	25.3	21.2	21.9	21.5	22.2	22.5
4H	24.0	24.6	24.3	24.9	25.2	21.1	21.8	21.5	22.1	22.4
6H	23.9	24.5	24.3	24.8	25.1	21.0	21.6	21.4	21.9	22.3
8H	23.9	24.4	24.2	24.7	25.1	21.0	21.5	21.4	21.9	22.2
12H	23.8	24.3	24.2	24.7	25.0	20.9	21.4	21.3	21.8	22.2
8H 4H	23.9	24.4	24.2	24.7	25.1	21.0	21.5	21.4	21.9	22.2
6H	23.8	24.2	24.2	24.6	25.0	20.9	21.3	21.3	21.7	22.1
8H	23.7	24.1	24.1	24.5	24.9	20.8	21.2	21.3	21.6	22.1
12H	23.6	24.0	24.1	24.4	24.9	20.8	21.1	21.2	21.5	22.0
12H 4H	23.8	24.3	24.2	24.7	25.0	20.9	21.4	21.3	21.8	22.2
6H	23.7	24.1	24.1	24.5	24.9	20.8	21.2	21.3	21.6	22.1
8H	23.6	24.0	24.1	24.4	24.9	20.8	21.1	21.2	21.5	22.0
Variations with the observer position at spacings:										
S = 1.0H	+ 4.2 / -14.7					+ 2.6 / -19.6				
1.5H	+ 5.8 / -12.0					+ 4.2 / -13.4				
2.0H	+ 7.1 / -25.1					+ 6.4 / -22.2				

CIE Pub.117, 329.0 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -3.9$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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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:

UTILIZATION FACTORS TABLE

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MFR.: NEKO LIGHTING AG		

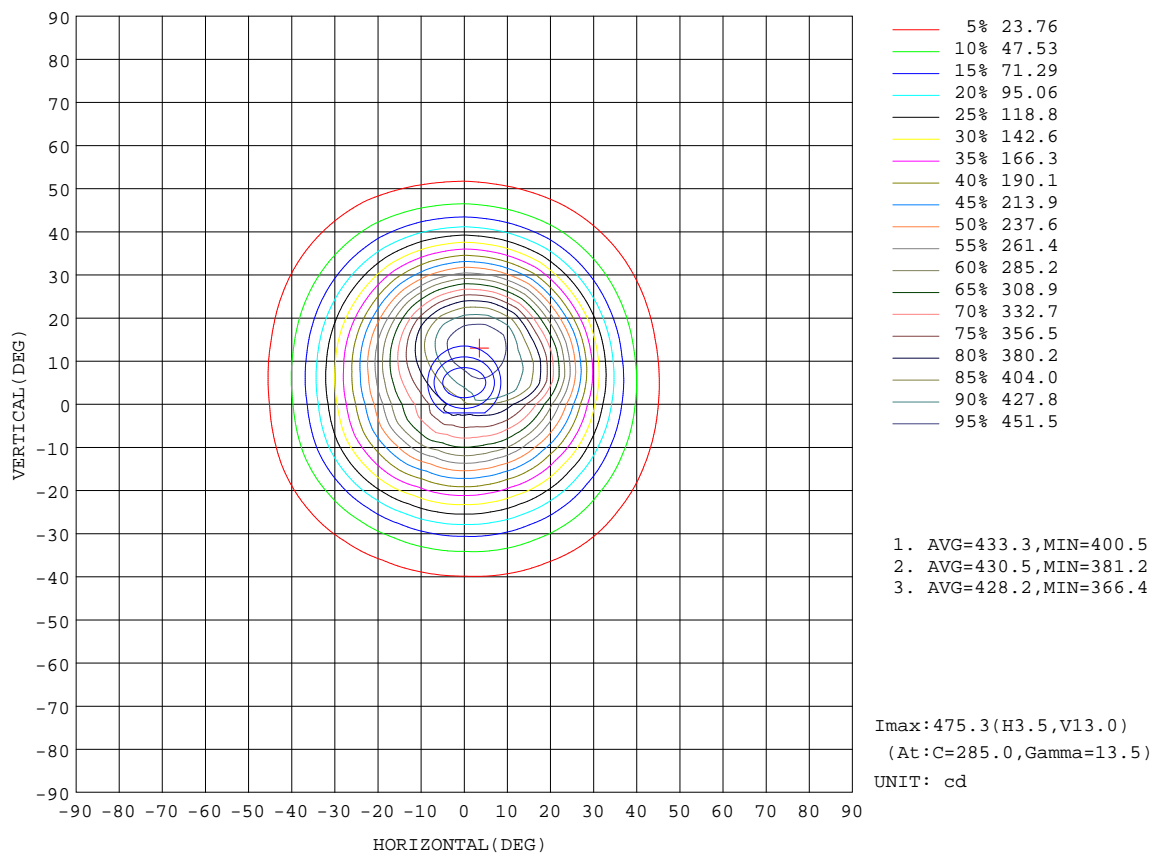
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	79	75	85	79	75	84	78	75	71
0.80	93	87	83	93	87	83	91	86	83	79
1.00	98	92	89	97	92	88	96	92	88	84
1.25	103	97	94	101	97	93	99	95	92	88
1.50	105	100	97	104	100	97	102	98	95	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	108	112	109	107	108	106	104	97
5.00	115	112	111	113	111	109	109	107	106	98
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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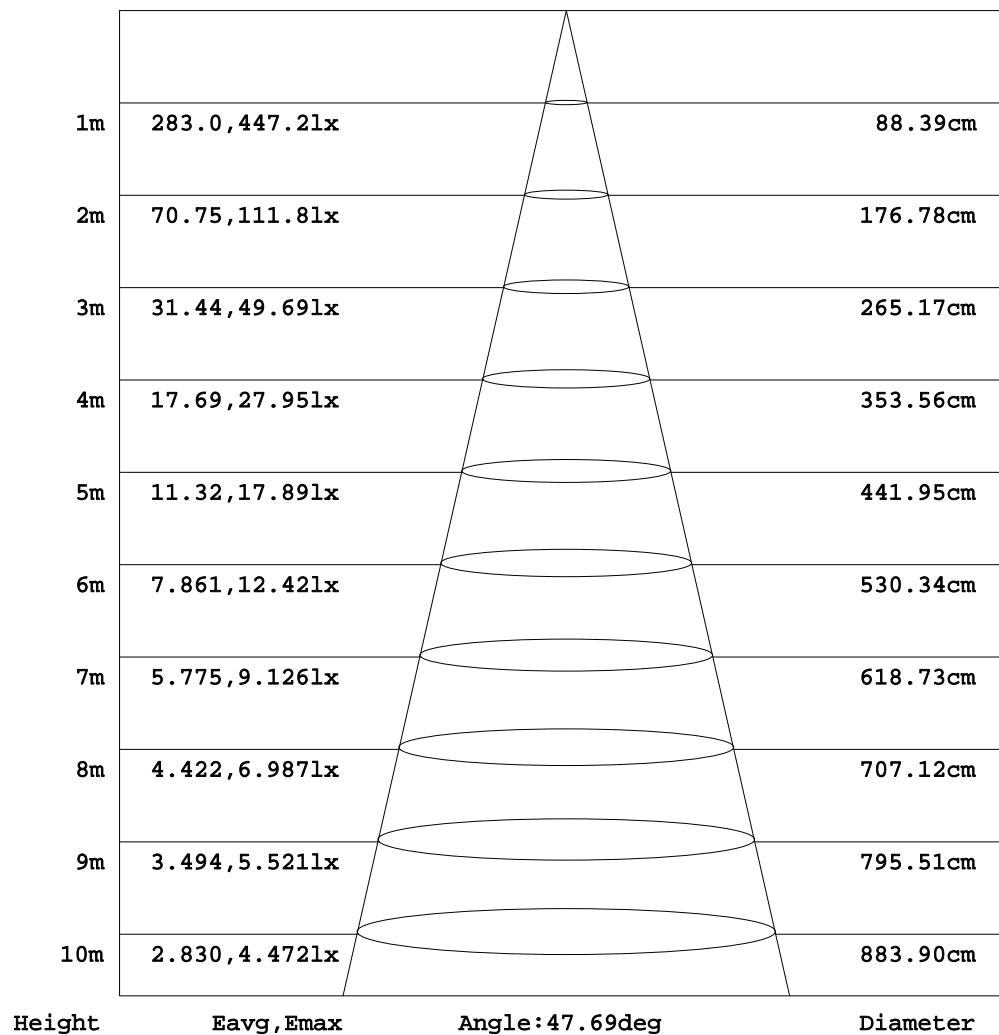
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AAI Figure

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Flux out:176.2 lm



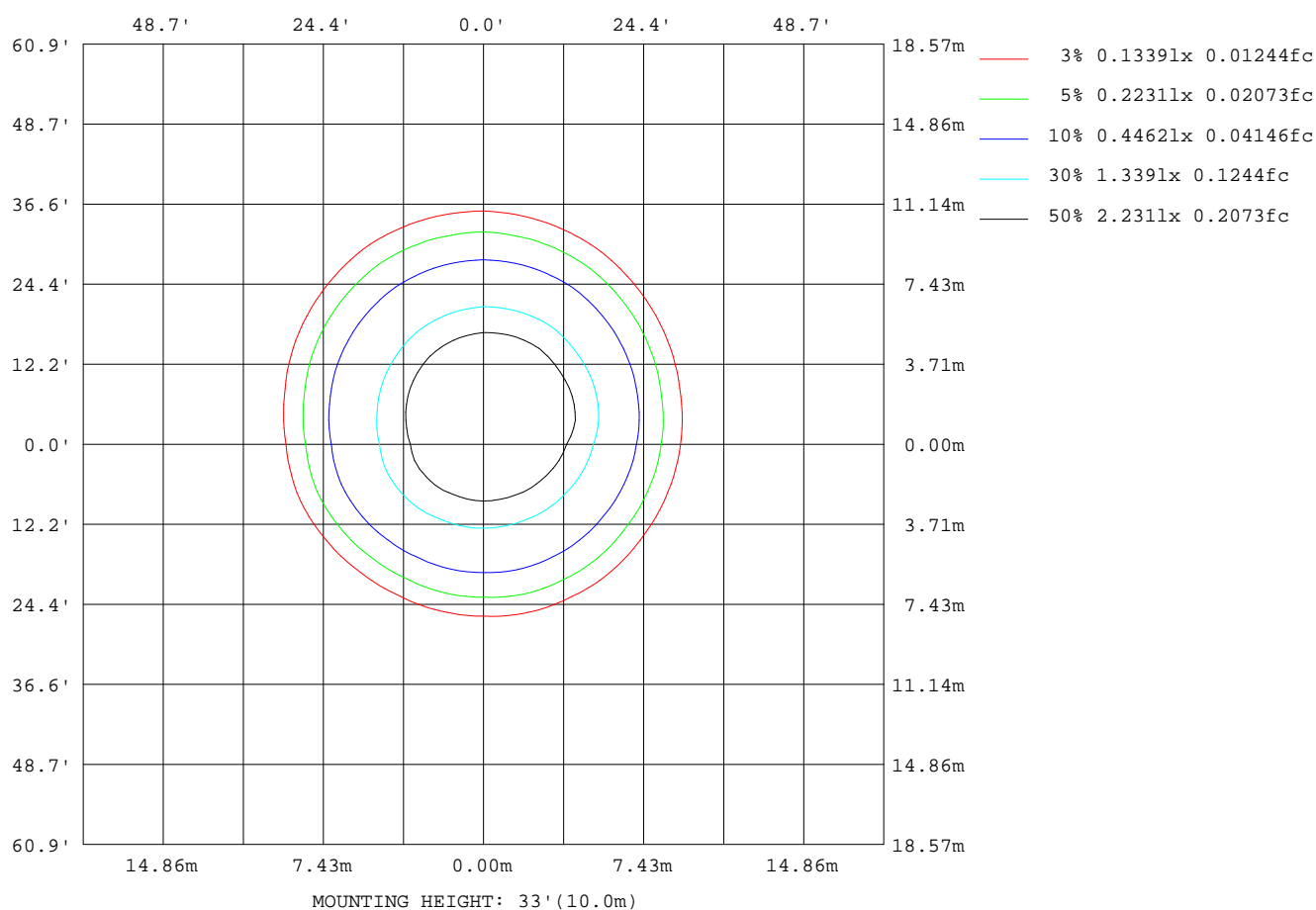
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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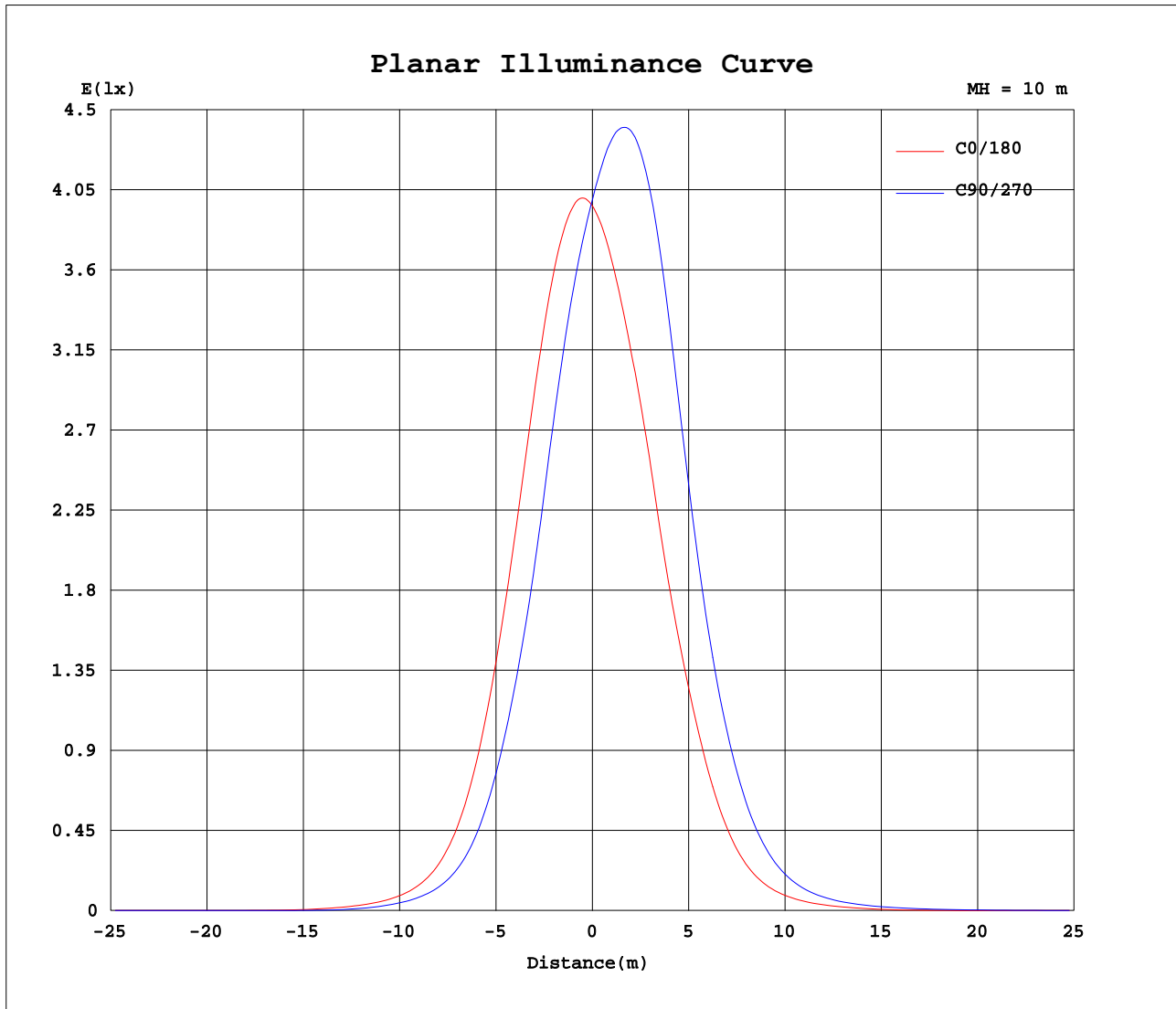
AvgL	cd/m2
L_0~180 (65) av	629
L_0~180 (75) av	157
L_0~180 (85) av	414
L_90~270 (65) av	6094
L_90~270 (75) av	224
L_90~270 (85) av	436
L_45 (65) av	2604
L_45 (75) av	219
L_45 (85) av	434

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-11

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: 2020-05-11

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:

```