

Low Voltage Track System Module ML26-RS25-5W-927-18

Light Output Ratio:	100.0%	
Luminaire Power:	5.094 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: 2020-05-11

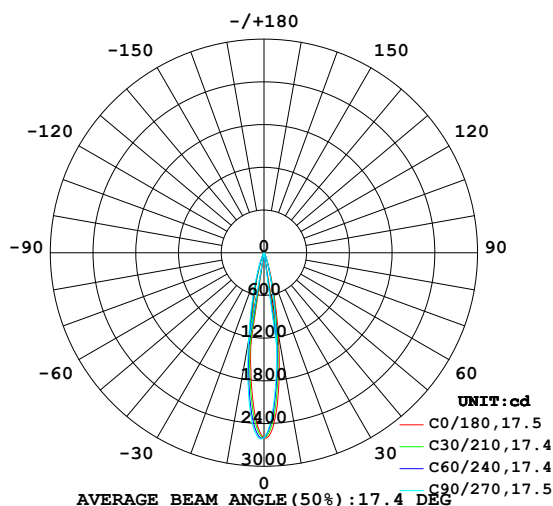
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

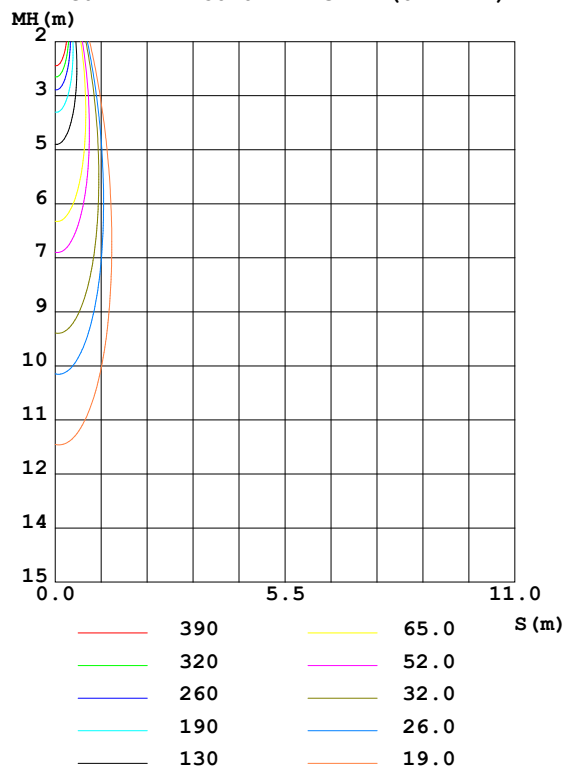
Test:U:48.00V I:0.1061A P:5.094W PF:1.000 Freq:0Hz Lamp Flux:330.809x1 lm		
NAME: ML26-RS25-5W-927-18	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: ϕ 25mm*H40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 64.94 lm/W			
MODEL	OSRAM-2700K	I _{max} (cd)	2626	S/MH (C0/180)	0.28
NOMINAL POWER (W)	5	LOR (%)	100.0	S/MH (C90/270)	0.33
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	330.81	η UP,DN (C0-180)	0.0,46.1
NOMINAL FLUX (lm)	330.809	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,53.9
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)



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

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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	1153	1010	912.7	938.9	998.2	1101	1257	1219	0- 10	162.5	162.5	49.1,49.1
20	158.3	133.1	141.2	142.5	146.2	156.4	208.0	194.2	10- 20	127.3	289.8	87.6,87.6
30	21.73	19.29	22.14	20.82	21.30	22.91	27.06	31.35	20- 30	30.41	320.2	96.8,96.8
40	4.955	4.889	5.306	5.271	5.158	5.535	6.461	5.761	30- 40	7.329	327.5	99,99
50	1.385	1.411	1.674	1.602	1.473	1.629	1.856	1.636	40- 50	2.287	329.8	99.7,99.7
60	0.3487	0.3391	0.3669	0.3843	0.4017	0.4436	0.4722	0.4162	50- 60	0.8148	330.7	100,100
70	0.0307	0.0153	0.0241	0.0152	0.0088	0.0307	0.0131	0.0261	60- 70	0.1240	330.8	100,100
80	0.0175	0.0153	0.0175	0.0174	0.0131	0.0153	0.0131	0.0152	70- 80	0.0170	330.8	100,100
90	0.0175	0.0175	0.0175	0.0196	0.0131	0.0132	0.0131	0.0152	80- 90	0.0170	330.8	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): 328.98 lm

%lum = 99.4%

%lamp = 99.4%

Conical surface Flux(120deg): 330.65 lm

%lum = 100.0%

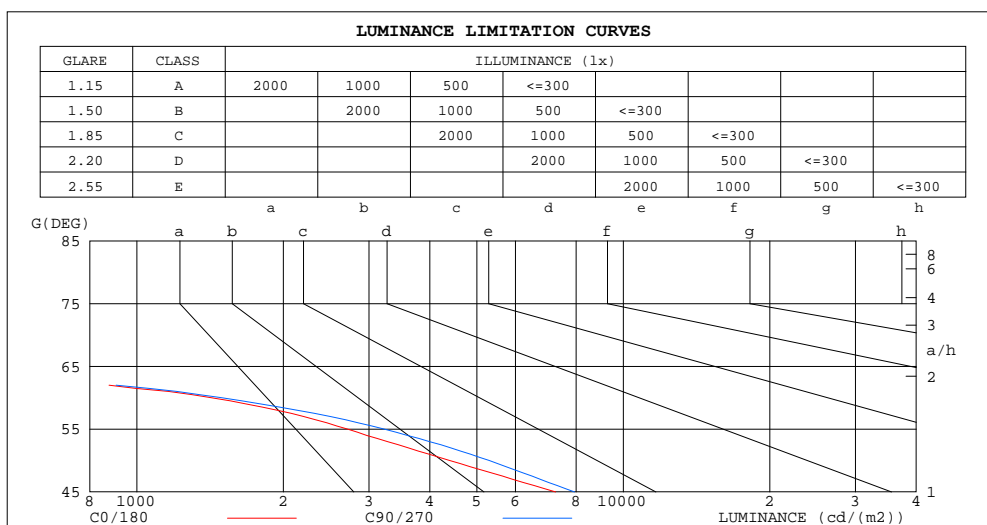
%lamp = 100.0%

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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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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	409	409
80	205	205
75	138	138
70	183	143
65	402	370
60	1420	1492
55	2708	3222
50	4389	5297
45	7258	7938

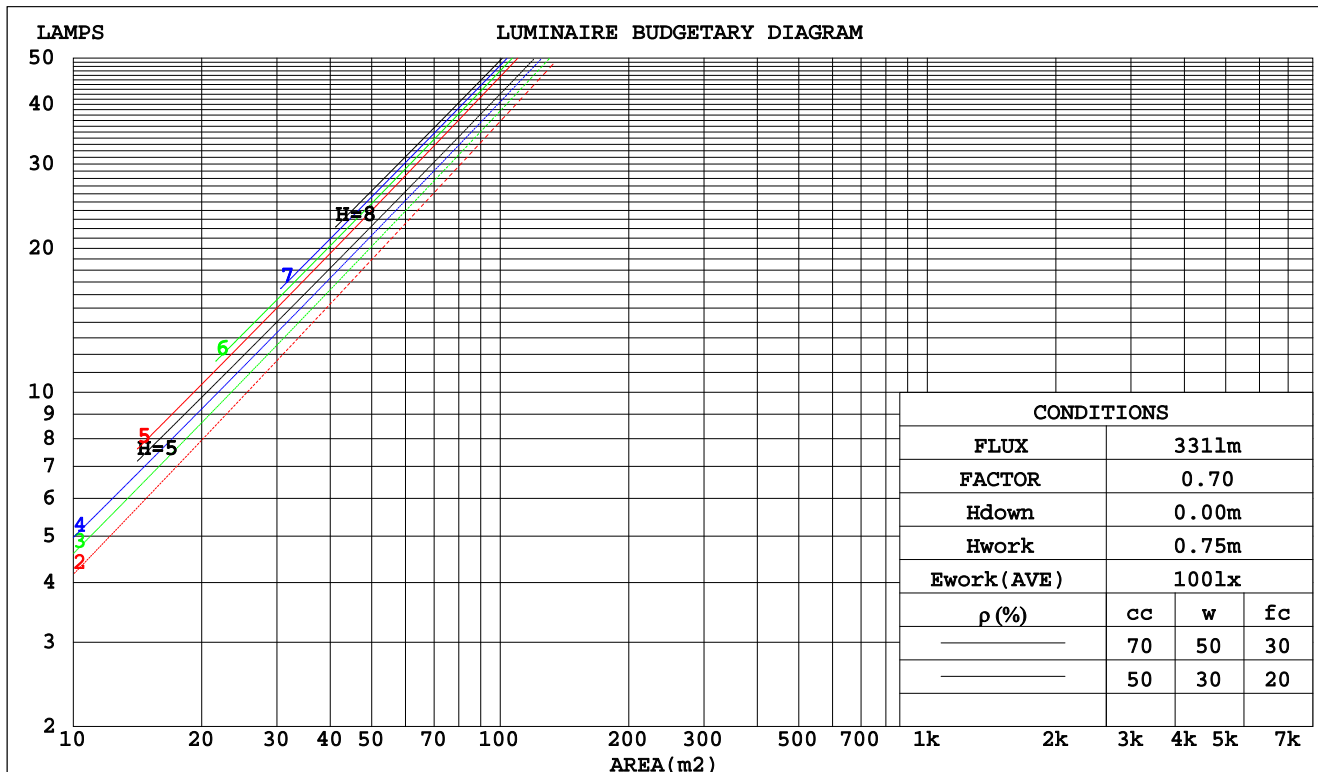
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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						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	1.12	1.10	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.00	.00	.99	.97
2.0	1.09	1.06	1.04	1.07	1.05	1.03	1.04	1.02	1.01	1.01	.00	.98	.99	.97	.96	.95
3.0	1.05	1.02	.99	1.04	1.01	.98	1.01	.99	.97	.99	.97	.95	.97	.95	.94	.93
4.0	1.01	.98	.95	1.00	.97	.95	.99	.96	.94	.97	.94	.93	.95	.93	.92	.91
5.0	.98	.95	.92	.98	.94	.92	.96	.93	.91	.95	.92	.90	.93	.91	.90	.89
6.0	.96	.92	.89	.95	.92	.89	.94	.91	.89	.93	.90	.88	.92	.89	.88	.87
7.0	.93	.90	.87	.93	.89	.87	.92	.89	.87	.91	.88	.86	.90	.87	.86	.85
8.0	.91	.88	.85	.91	.87	.85	.90	.87	.85	.89	.86	.84	.88	.86	.84	.83
9.0	.89	.86	.83	.89	.85	.83	.88	.85	.83	.87	.85	.83	.87	.84	.82	.82
10.0	.87	.84	.81	.87	.84	.81	.86	.83	.81	.86	.83	.81	.85	.83	.81	.80



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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	.125	.071	.023	.119	.068	.022	.106	.061	.019	.095	.055	.018	.085	.049	.016		
2.0	.115	.063	.019	.110	.060	.019	.099	.055	.017	.090	.051	.016	.082	.046	.015		
3.0	.106	.057	.017	.102	.055	.016	.093	.051	.015	.086	.047	.014	.079	.043	.013		
4.0	.099	.051	.015	.095	.050	.015	.088	.047	.014	.082	.044	.013	.076	.041	.013		
5.0	.093	.047	.014	.089	.046	.013	.084	.043	.013	.078	.041	.012	.073	.039	.012		
6.0	.087	.044	.012	.084	.043	.012	.079	.041	.012	.075	.039	.011	.070	.037	.011		
7.0	.082	.041	.012	.080	.040	.011	.076	.038	.011	.072	.037	.011	.068	.035	.010		
8.0	.078	.038	.011	.076	.037	.011	.072	.036	.010	.069	.035	.010	.065	.034	.010		
9.0	.074	.036	.010	.073	.035	.010	.069	.034	.010	.066	.033	.009	.063	.032	.009		
10.0	.071	.034	.009	.069	.034	.009	.067	.033	.009	.064	.032	.009	.061	.031	.009		

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	.149	.143	.135	.128	.098	.093	.089	.056	.054	.052	.018	.017	.017	
2.0	.149	.133	.119	.127	.114	.103	.087	.079	.072	.050	.046	.042	.016	.015	.014	
3.0	.133	.113	.097	.114	.098	.084	.078	.068	.059	.045	.040	.035	.015	.013	.011	
4.0	.120	.098	.081	.103	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.109	.085	.068	.093	.074	.059	.064	.051	.042	.037	.030	.025	.012	.010	.008	
6.0	.099	.075	.057	.085	.065	.050	.059	.045	.035	.034	.027	.021	.011	.009	.007	
7.0	.091	.067	.049	.079	.058	.043	.054	.040	.030	.032	.024	.018	.010	.008	.006	
8.0	.085	.060	.042	.073	.052	.037	.050	.036	.026	.029	.021	.016	.009	.007	.005	
9.0	.079	.054	.037	.068	.047	.032	.047	.033	.023	.027	.019	.014	.009	.006	.005	
10.0	.074	.049	.032	.063	.042	.028	.044	.030	.020	.026	.018	.012	.008	.006	.004	

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:0.1061A P:5.094W PF:1.000 Freq:0Hz Lamp Flux:330.809x1 lm										
NAME: ML26-RS25-5W-927-18					TYPE:Low Voltage Track System Module					
SPEC.:2700K					DIM.: ϕ 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	11.2	11.7	11.4	11.9	12.0	11.1	11.7	11.3	11.8	11.9
3H	11.0	11.6	11.3	11.8	11.9	10.9	11.5	11.2	11.7	11.8
4H	11.0	11.5	11.2	11.7	11.9	10.9	11.4	11.1	11.6	11.8
6H	10.9	11.4	11.2	11.6	11.8	10.8	11.3	11.1	11.5	11.7
8H	10.8	11.3	11.1	11.6	11.8	10.7	11.2	11.0	11.5	11.7
12H	10.8	11.3	11.1	11.5	11.8	10.7	11.2	11.0	11.4	11.7
4H 2H	11.0	11.5	11.3	11.7	11.9	10.9	11.4	11.2	11.6	11.8
3H	10.8	11.3	11.1	11.5	11.8	10.7	11.2	11.0	11.4	11.7
4H	10.7	11.2	11.1	11.4	11.7	10.6	11.1	11.0	11.3	11.6
6H	10.6	11.0	11.0	11.3	11.7	10.5	10.9	10.9	11.2	11.6
8H	10.6	10.9	11.0	11.3	11.6	10.5	10.8	10.9	11.2	11.5
12H	10.5	10.8	10.9	11.2	11.6	10.4	10.8	10.8	11.1	11.5
8H 4H	10.6	10.9	11.0	11.3	11.6	10.5	10.8	10.9	11.2	11.5
6H	10.5	10.8	10.9	11.1	11.6	10.4	10.7	10.8	11.0	11.5
8H	10.4	10.7	10.8	11.1	11.5	10.3	10.6	10.7	11.0	11.4
12H	10.3	10.6	10.8	11.0	11.5	10.2	10.5	10.7	10.9	11.4
12H 4H	10.5	10.8	10.9	11.2	11.6	10.4	10.7	10.8	11.1	11.5
6H	10.4	10.7	10.8	11.1	11.5	10.3	10.6	10.7	11.0	11.4
8H	10.3	10.6	10.8	11.0	11.5	10.2	10.5	10.7	10.9	11.4
Variations with the observer position at spacings:										
S = 1.0H	+ 3.2 / - 7.8					+ 3.2 / - 7.1				
1.5H	+ 4.8 / - 5.1					+ 4.7 / - 5.0				
2.0H	+ 4.8 / - 9.9					+ 4.9 / -10.4				

CIE Pub.117, 330.8 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -3.8$)

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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%
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Remarks:

UTILIZATION FACTORS TABLE

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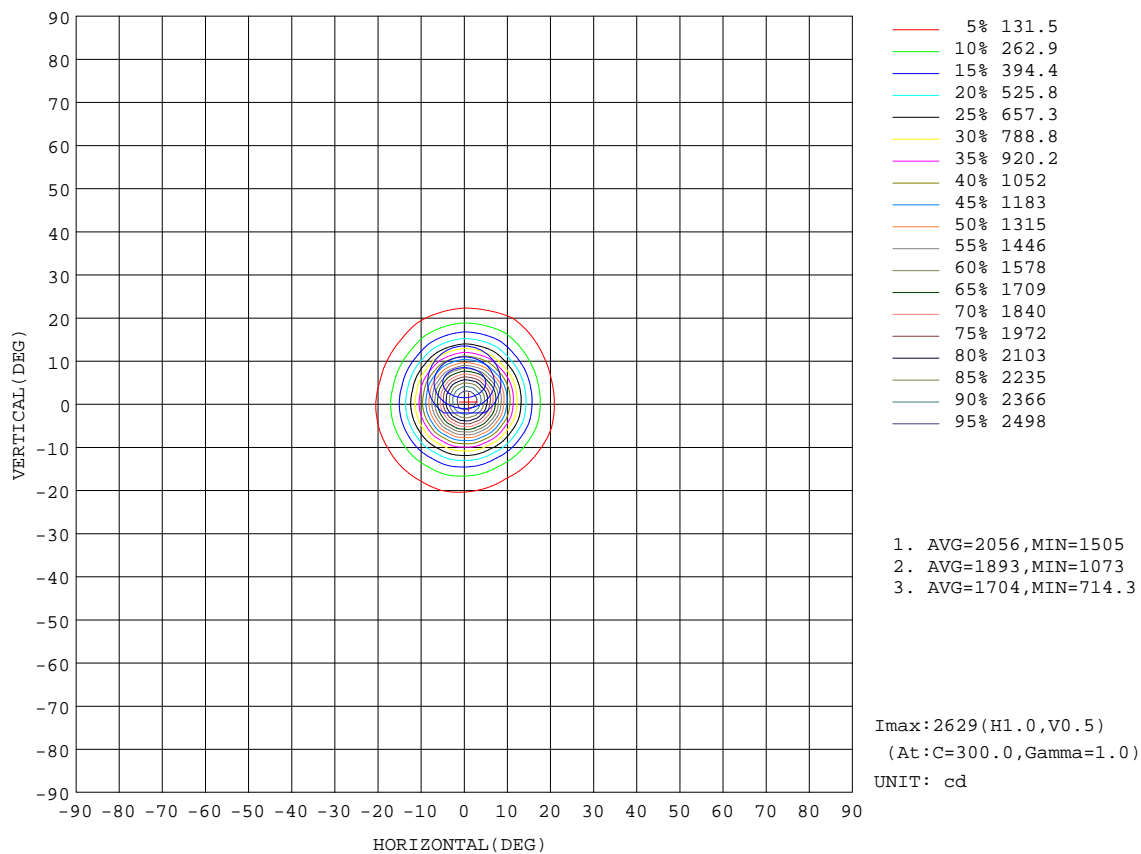
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	98	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	110	109	109	107	106	99
5.00	116	114	112	114	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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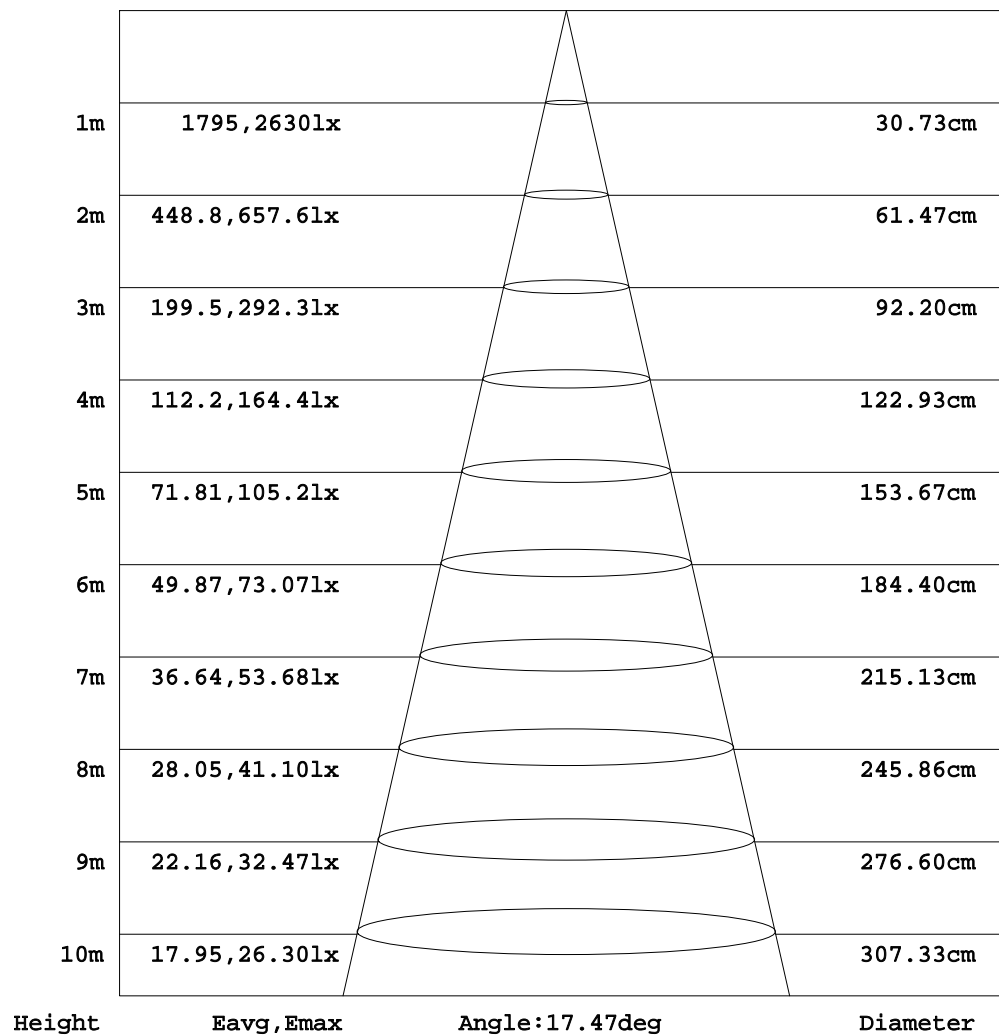
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AAI Figure

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Flux out:141.5 lm



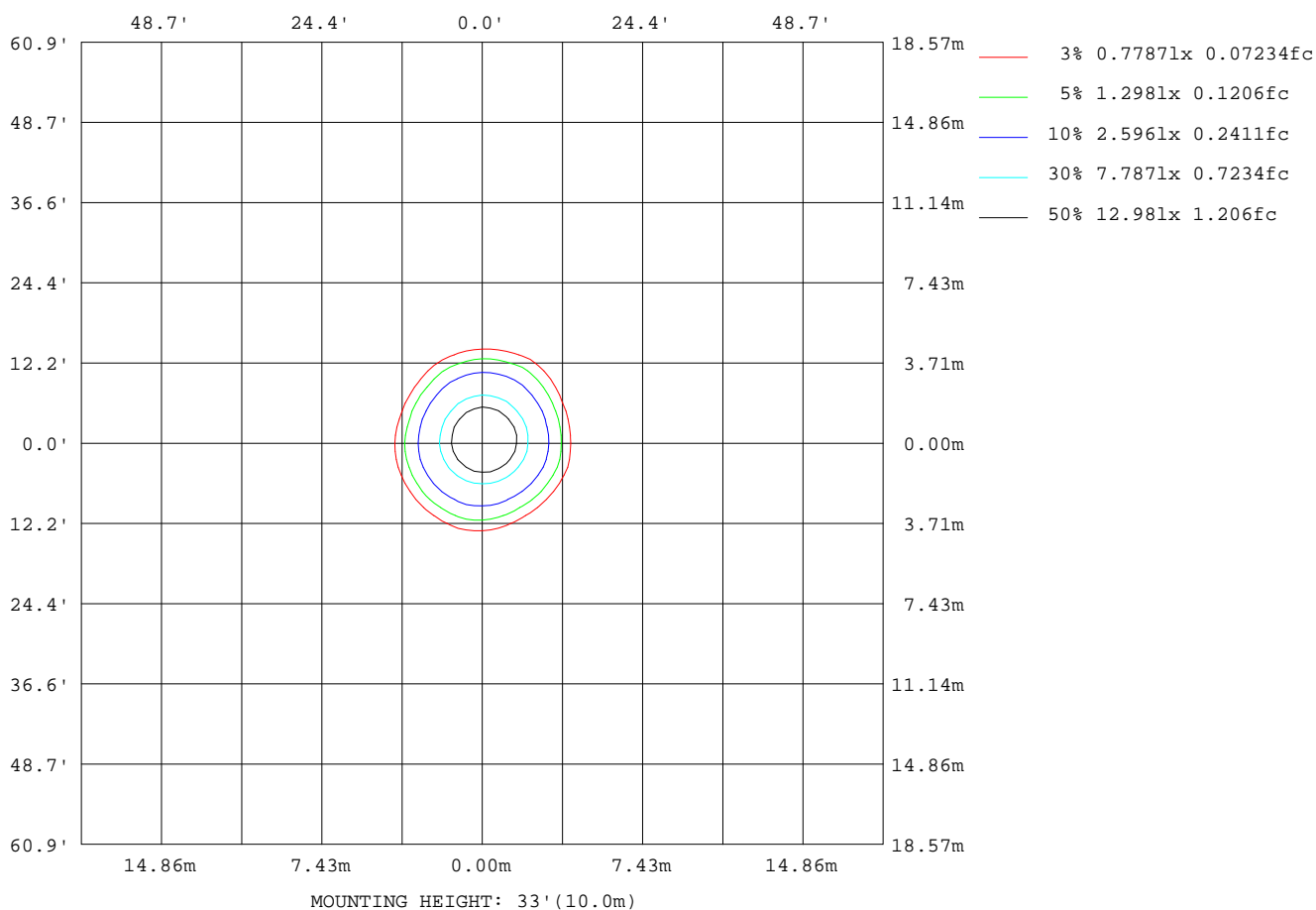
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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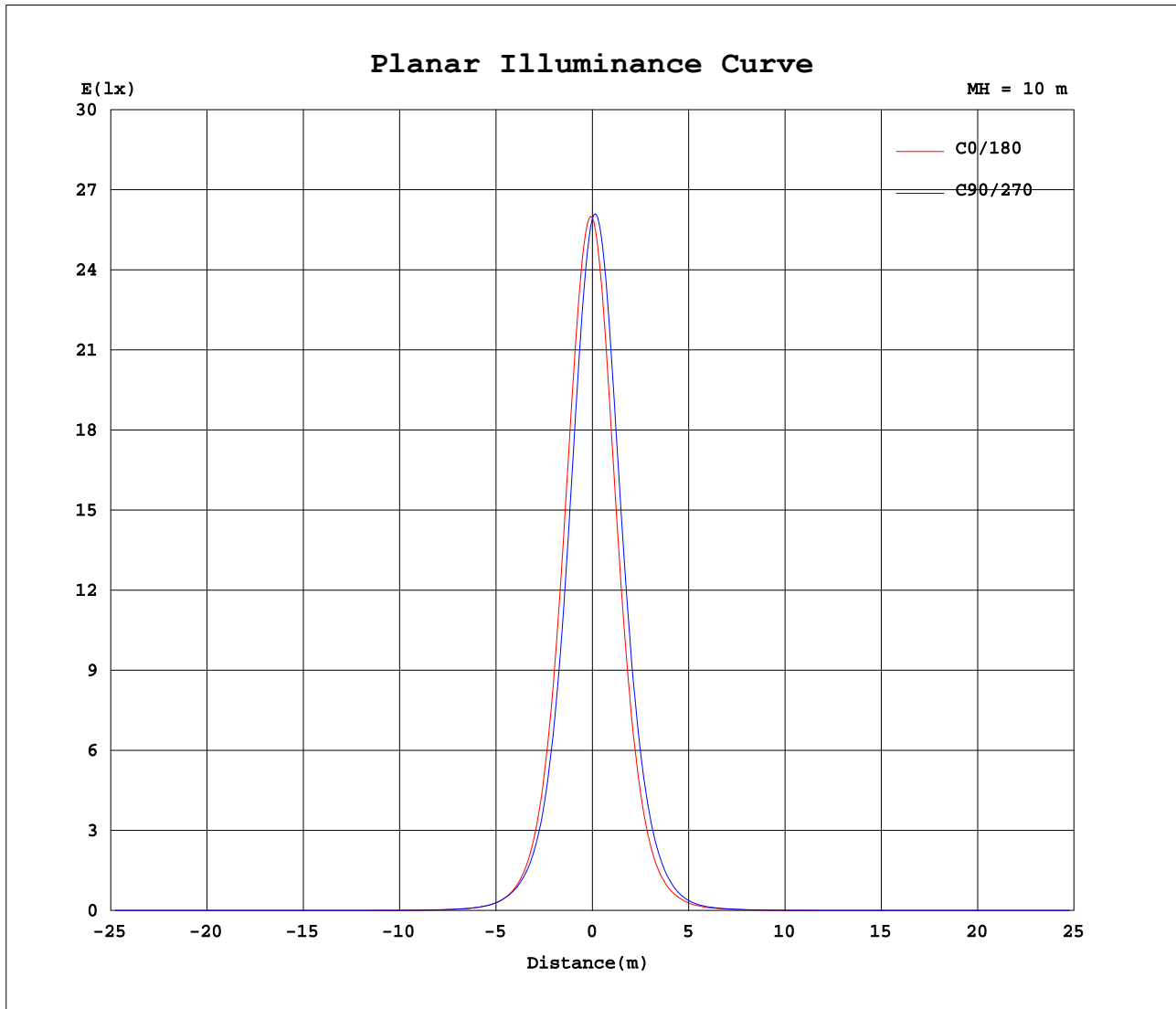
AvgL	cd/m2
L_0~180 (65) av	390
L_0~180 (75) av	103
L_0~180 (85) av	358
L_90~270 (65) av	375
L_90~270 (75) av	121
L_90~270 (85) av	359
L_45 (65) av	385
L_45 (75) av	125
L_45 (85) av	371

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:

```