

Low Voltage Track System Module ML26-RS25-5W-940-18



Light Output Ratio:	100.0%	
Luminaire Power:	5.093 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: 2020-05-08

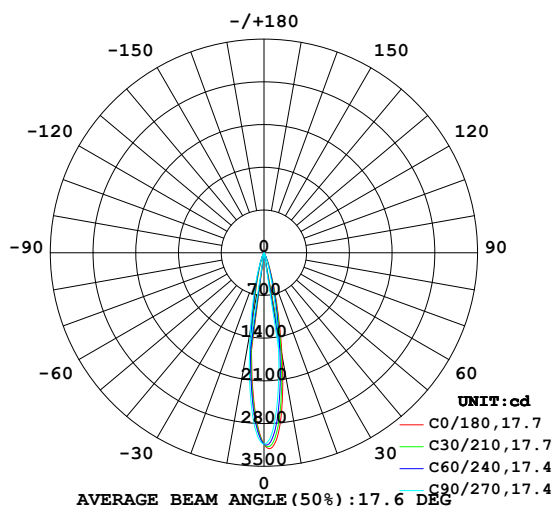
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

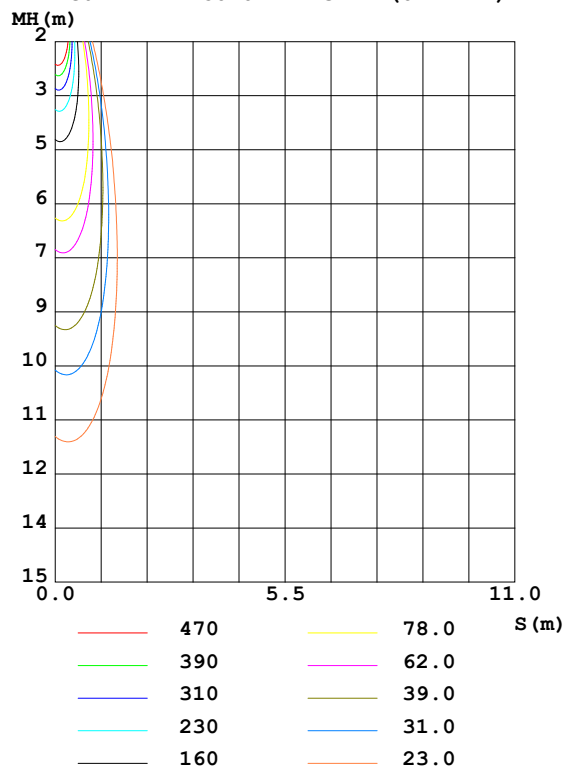
Test:U:48.00V I:0.1061A P:5.093W PF:1.000 Freq:0Hz Lamp Flux:396.663x1 lm		
NAME: ML26-RS25-5W-940-18	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: \varnothing 25mm*H40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.88 lm/W			
MODEL	OSRAM-4000K	I _{max} (cd)	3217	S/MH (C0/180)	0.26
NOMINAL POWER (W)	5	LOR (%)	100.0	S/MH (C90/270)	0.30
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	396.66	η UP,DN (C0-180)	0.0,50.6
NOMINAL FLUX (lm)	396.663	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,49.4
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
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Operators:Jason
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ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1697	1579	1276	1049	1043	1032	1292	1439	0- 10	196.8	196.8	49.6,49.6
20	271.2	244.7	175.1	131.6	145.6	156.4	200.7	211.7	10- 20	151.6	348.4	87.8,87.8
30	36.62	34.24	26.49	20.20	20.80	22.60	25.91	28.22	20- 30	35.98	384.4	96.9,96.9
40	7.911	8.137	7.196	5.593	5.130	5.284	6.182	6.702	30- 40	8.413	392.8	99.99
50	1.972	2.291	2.296	1.680	1.514	1.685	1.906	1.818	40- 50	2.728	395.5	99.7,99.7
60	0.5605	0.5803	0.5642	0.3738	0.3238	0.3584	0.4077	0.4743	50- 60	0.9537	396.5	100,100
70	0.0362	0.0156	0.0287	0.0126	0.0113	0.0179	0.0088	0.0253	60- 70	0.1405	396.6	100,100
80	0.0158	0.0134	0.0154	0.0126	0.0135	0.0112	0.0088	0.0105	70- 80	0.0149	396.6	100,100
90	0.0158	0.0134	0.0154	0.0126	0.0135	0.0112	0.0088	0.0105	80- 90	0.0138	396.7	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): 394.53 lm

%lum = 99.5%

%lamp = 99.5%

Conical surface Flux(120deg): 396.49 lm

%lum = 100.0%

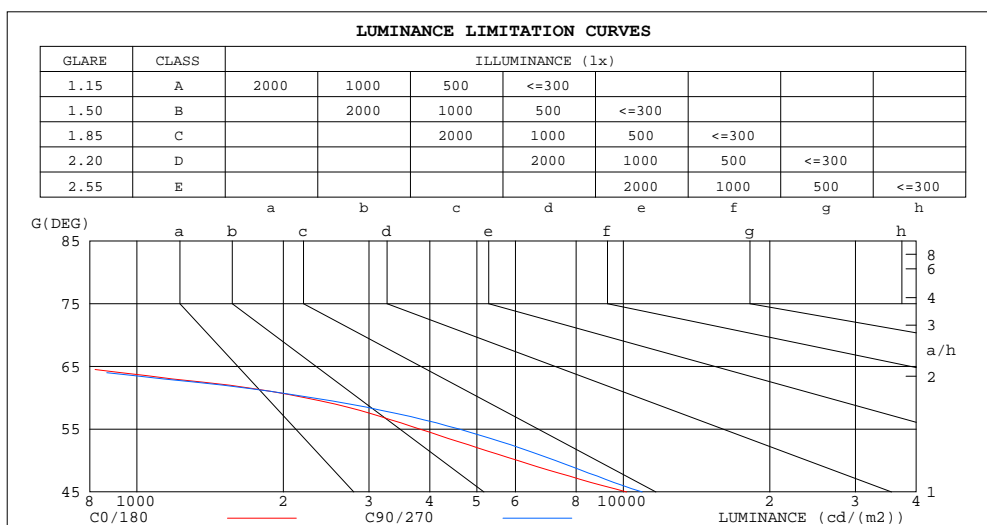
%lamp = 100.0%

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Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-08

γ Range: 0 - 90DEG
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Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:4000K	DIM.: ϕ 25mm*H40mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	358	358
80	180	180
75	138	121
70	209	170
65	720	594
60	2215	2287
55	3813	4599
50	6061	7241
45	10157	10939

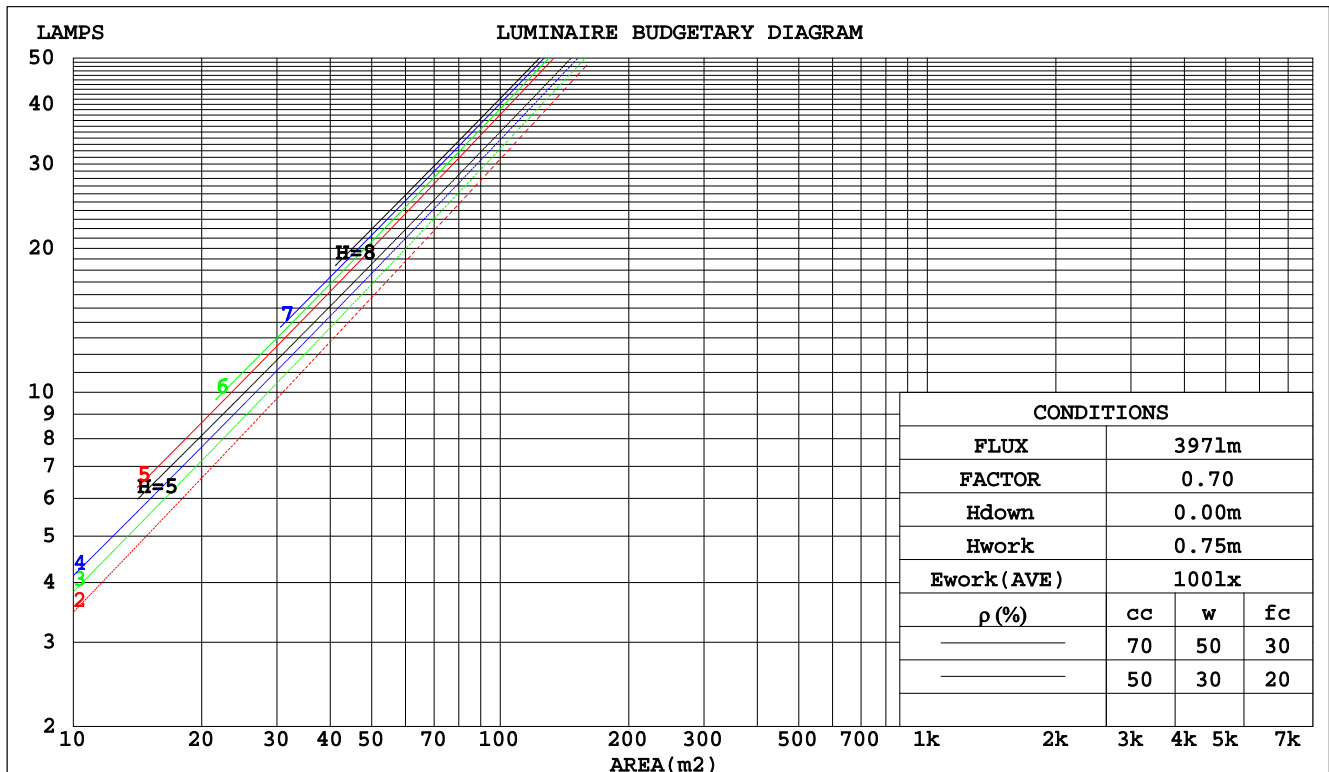
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.00
1.0	1.14	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	.98
2.0	1.09	1.06	1.04	1.07	1.05	1.03	1.04	1.02	1.01	1.01	.00	.99	.99	.98	.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	1.02	.98	.95	1.01	.97	.95	.99	.96	.94	.97	.95	.93	.95	.93	.92	.91
5.0	.99	.95	.92	.98	.94	.92	.96	.93	.91	.95	.92	.90	.93	.91	.90	.89
6.0	.96	.92	.90	.95	.92	.89	.94	.91	.89	.93	.90	.88	.92	.89	.88	.87
7.0	.93	.90	.87	.93	.90	.87	.92	.89	.87	.91	.88	.86	.90	.88	.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	.86	.83	.88	.85	.83	.87	.85	.83	.87	.84	.83	.82
10.0	.87	.84	.82	.87	.84	.82	.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	.022	.118	.067	.021	.106	.061	.019	.095	.055	.018	.084	.049	.016		
2.0	.115	.063	.019	.109	.060	.019	.099	.055	.017	.090	.050	.016	.081	.046	.014		
3.0	.106	.056	.017	.101	.054	.016	.093	.050	.015	.085	.047	.014	.078	.043	.013		
4.0	.098	.051	.015	.095	.050	.015	.088	.047	.014	.081	.044	.013	.075	.041	.012		
5.0	.092	.047	.014	.089	.046	.013	.083	.043	.013	.078	.041	.012	.072	.039	.012		
6.0	.087	.043	.012	.084	.042	.012	.079	.040	.012	.074	.039	.011	.070	.037	.011		
7.0	.082	.041	.011	.080	.040	.011	.075	.038	.011	.071	.036	.011	.067	.035	.010		
8.0	.078	.038	.011	.076	.037	.011	.072	.036	.010	.068	.035	.010	.065	.033	.010		
9.0	.074	.036	.010	.072	.035	.010	.069	.034	.010	.066	.033	.009	.063	.032	.009		
10.0	.071	.034	.009	.069	.033	.009	.066	.032	.009	.063	.031	.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	.098	.114	.098	.085	.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	.084	.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	.073	.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
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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:0.1061A P:5.093W PF:1.000 Freq:0Hz Lamp Flux:396.663x1 lm										
NAME: ML26-RS25-5W-940-18					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	12.7	13.3	12.9	13.5	13.6	12.6	13.2	12.8	13.3	13.5
3H	12.6	13.1	12.8	13.3	13.5	12.5	13.0	12.7	13.2	13.4
4H	12.5	13.0	12.8	13.2	13.4	12.4	12.9	12.6	13.1	13.3
6H	12.4	12.9	12.7	13.2	13.4	12.3	12.8	12.6	13.0	13.3
8H	12.4	12.9	12.7	13.1	13.4	12.3	12.7	12.6	13.0	13.2
12H	12.4	12.8	12.7	13.1	13.3	12.2	12.7	12.5	12.9	13.2
4H 2H	12.6	13.1	12.8	13.3	13.5	12.4	12.9	12.7	13.1	13.4
3H	12.4	12.9	12.7	13.1	13.4	12.3	12.7	12.6	13.0	13.2
4H	12.3	12.7	12.6	13.0	13.3	12.2	12.6	12.5	12.9	13.2
6H	12.2	12.6	12.6	12.9	13.2	12.1	12.4	12.4	12.8	13.1
8H	12.1	12.5	12.5	12.8	13.2	12.0	12.4	12.4	12.7	13.1
12H	12.1	12.4	12.5	12.8	13.2	12.0	12.3	12.4	12.6	13.0
8H 4H	12.1	12.5	12.5	12.8	13.2	12.0	12.4	12.4	12.7	13.1
6H	12.0	12.3	12.5	12.7	13.1	11.9	12.2	12.3	12.6	13.0
8H	12.0	12.2	12.4	12.6	13.1	11.8	12.1	12.3	12.5	12.9
12H	11.9	12.1	12.4	12.6	13.0	11.8	12.0	12.2	12.4	12.9
12H 4H	12.1	12.4	12.5	12.8	13.2	12.0	12.3	12.4	12.6	13.0
6H	12.0	12.2	12.4	12.6	13.1	11.8	12.1	12.3	12.5	12.9
8H	11.9	12.1	12.4	12.6	13.0	11.8	12.0	12.2	12.4	12.9
Variations with the observer position at spacings:										
S = 1.0H	+ 3.0 / - 7.8					+ 2.4 / - 6.9				
1.5H	+ 4.6 / - 5.1					+ 3.7 / - 4.7				
2.0H	+ 4.5 / - 8.3					+ 4.5 / - 9.0				

CIE Pub.117, 396.7 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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Remarks:

UTILIZATION FACTORS TABLE

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MFR.: NEKO LIGHTING AG		

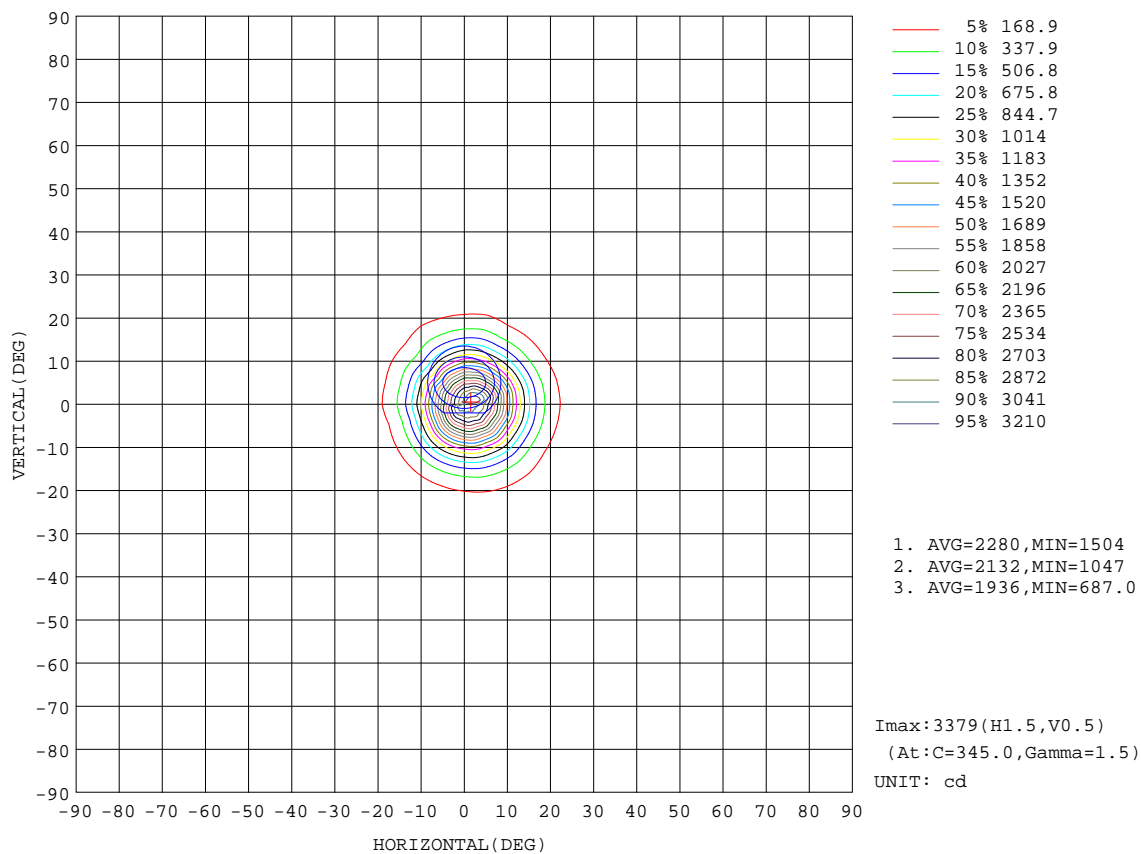
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	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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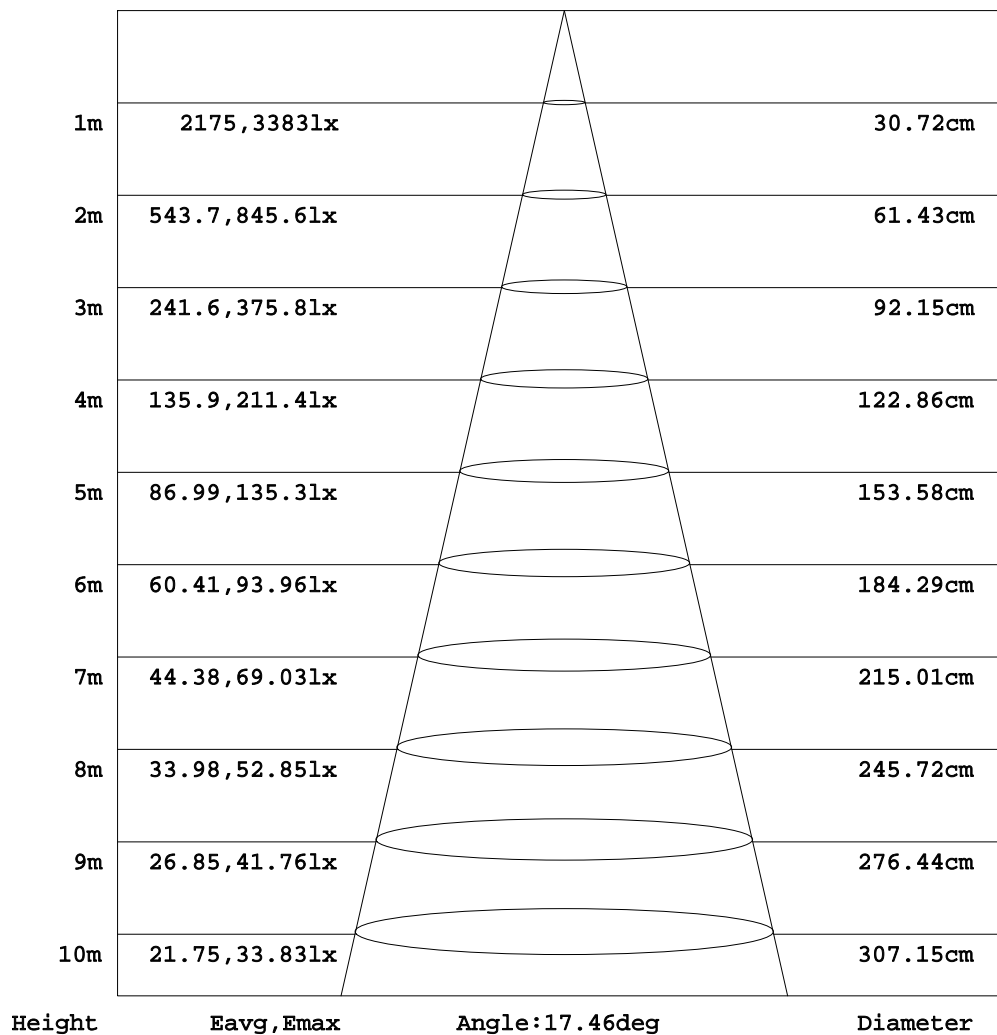
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AAI Figure

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Flux out:171.4 lm



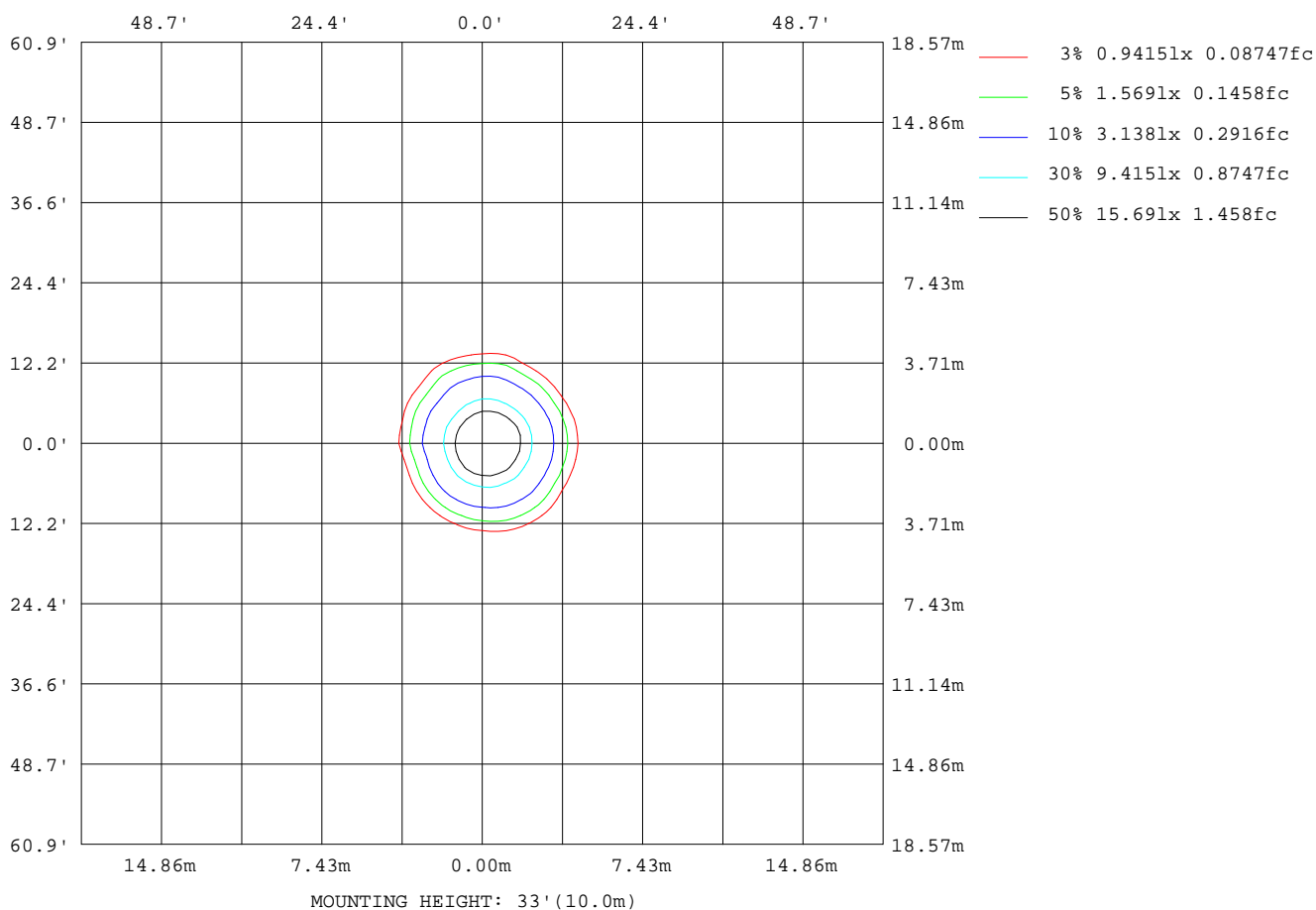
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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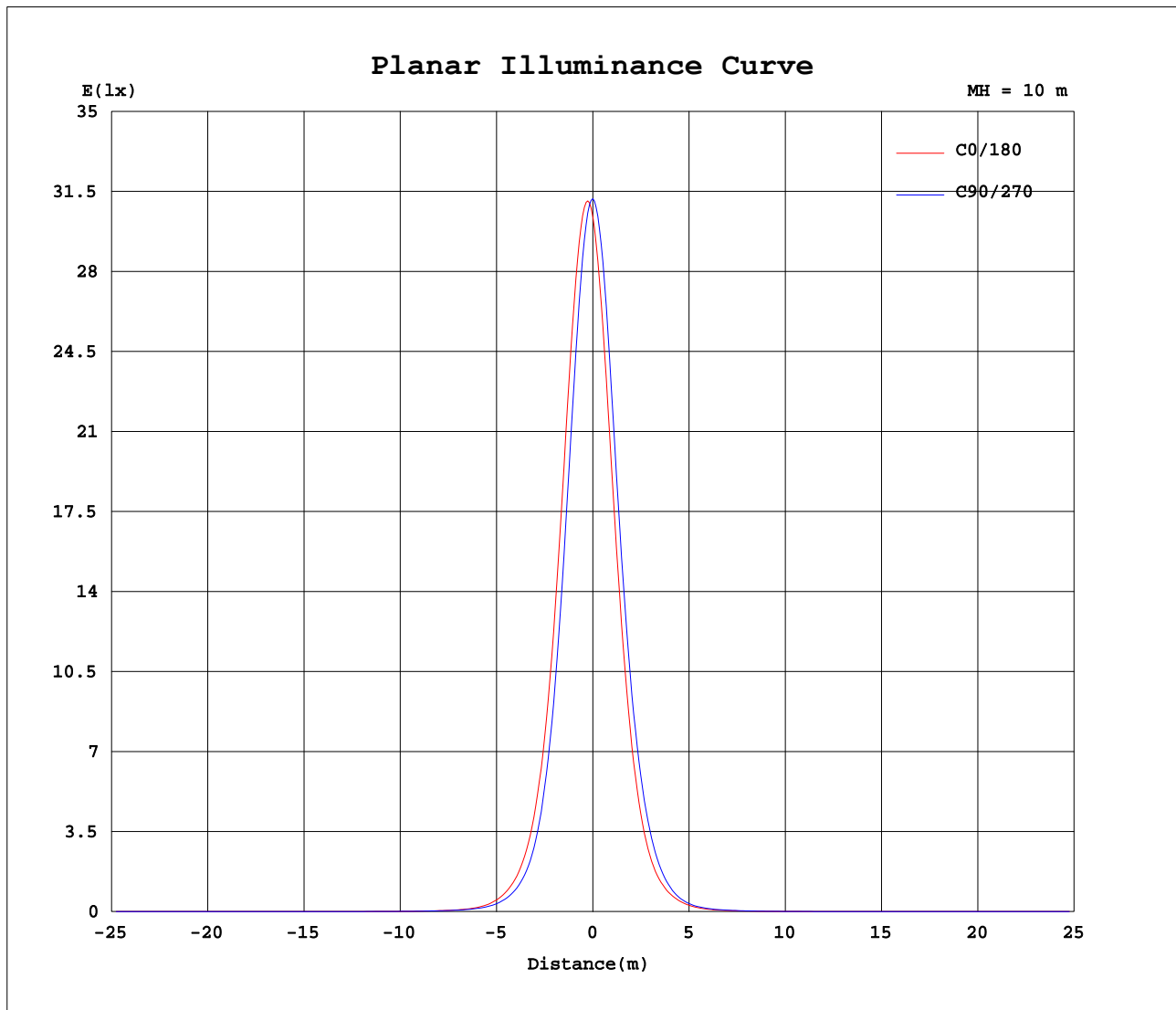
AvgL	cd/m2
L_0~180 (65) av	474
L_0~180 (75) av	115
L_0~180 (85) av	343
L_90~270 (65) av	431
L_90~270 (75) av	95
L_90~270 (85) av	283
L_45 (65) av	434
L_45 (75) av	103
L_45 (85) av	279

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:

```