

Low Voltage Track System Module ML26-RS25-5W-930-18



Light Output Ratio:	100.0%	
Luminaire Power:	5.31 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 Long
Test Date: 2019-12-03

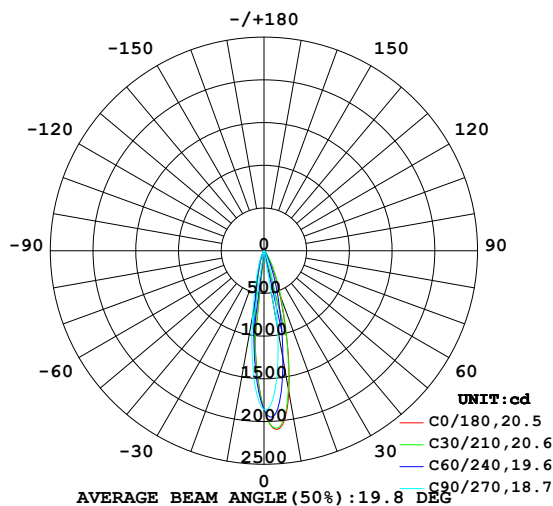
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 56%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

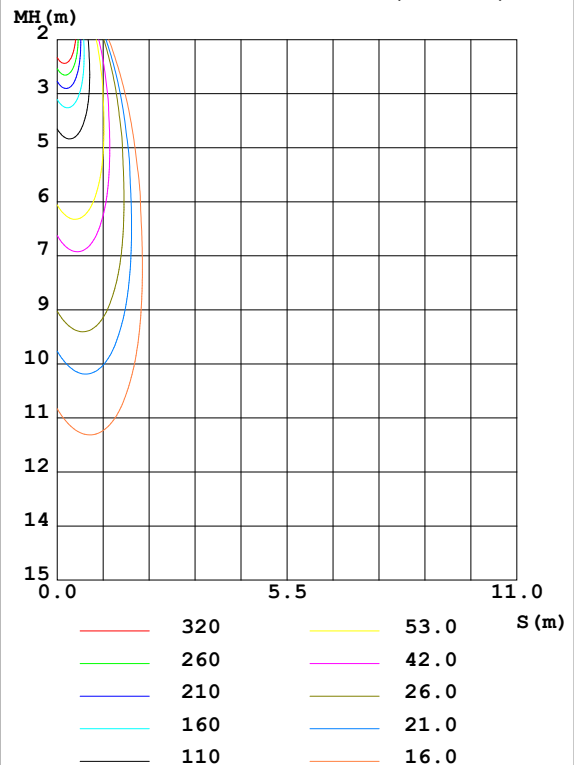
Test:U:48.00V I:0.1106A P:5.310W PF:1.000 Freq:0Hz Lamp Flux:367.445x1 lm		
NAME: ML26-RS25-5W-930-18	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: ϕ 25mm*H40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.20 lm/W			
MODEL	OSRAM-3000K	I _{max} (cd)	2135	S/MH (C0/180)	0.23
NOMINAL POWER (W)	5	LOR (%)	100.0	S/MH (C90/270)	0.30
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	367.44	η UP,DN (C0-180)	0.0,58.2
NOMINAL FLUX (lm)	367.445	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,41.8
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
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Temperature:25.3DEG
Operators:Jason Long
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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	1679	1514	931.0	626.8	534.7	575.0	775.4	1174	0- 10	130.1	130.1	35.4,35.4
20	548.4	507.2	207.3	128.8	101.2	116.2	179.4	274.6	10- 20	144.6	274.6	74.7,74.7
30	134.1	142.8	45.72	24.94	18.99	18.62	30.10	76.66	20- 30	61.55	336.2	91.5,91.5
40	31.90	43.01	18.13	8.900	6.828	6.462	8.319	14.26	30- 40	20.44	356.6	97.1,97.1
50	9.734	8.982	3.735	2.940	2.559	2.175	2.998	5.040	40- 50	7.752	364.4	99.2,99.2
60	2.337	1.857	1.269	0.8397	0.6669	0.6523	1.017	1.833	50- 60	2.311	366.7	99.8,99.8
70	0.6118	0.4626	0.0969	0.0285	0.0214	0.0416	0.0459	0.3500	60- 70	0.6646	367.3	100,100
80	0.0516	0.0284	0.0220	0.0110	0.0086	0.0131	0.0022	0.0330	70- 80	0.0812	367.4	100,100
90	0.0129	0.0109	0.0110	0.0110	0.0086	0.0066	0.0022	0.0088	80- 90	0.0135	367.4	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): 361.54 lm

%lum = 98.4%

%lamp = 98.4%

Conical surface Flux(120deg): 366.69 lm

%lum = 99.8%

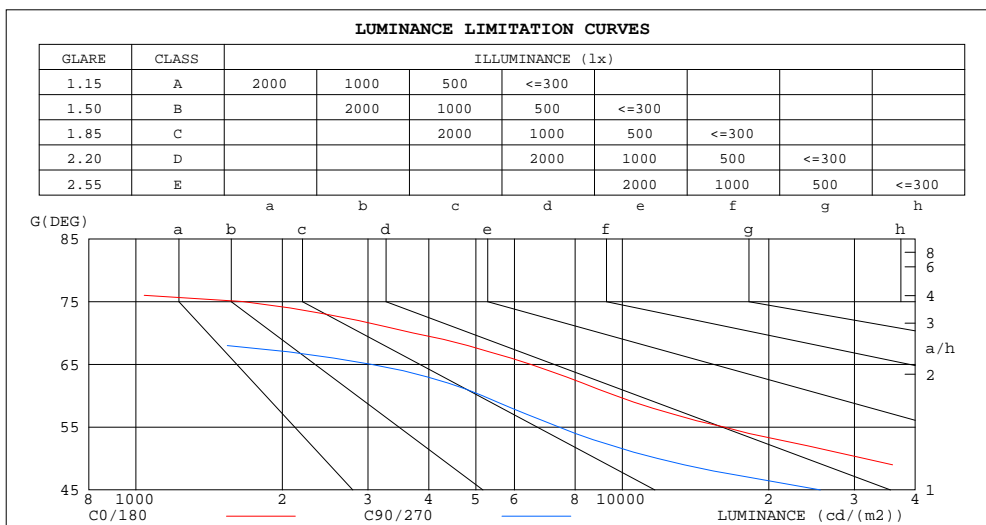
%lamp = 99.8%

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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	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	614	358
80	616	257
75	1660	328
70	3709	575
65	6474	3044
60	9691	5157
55	16196	7406
50	31397	11803
45	55716	25529

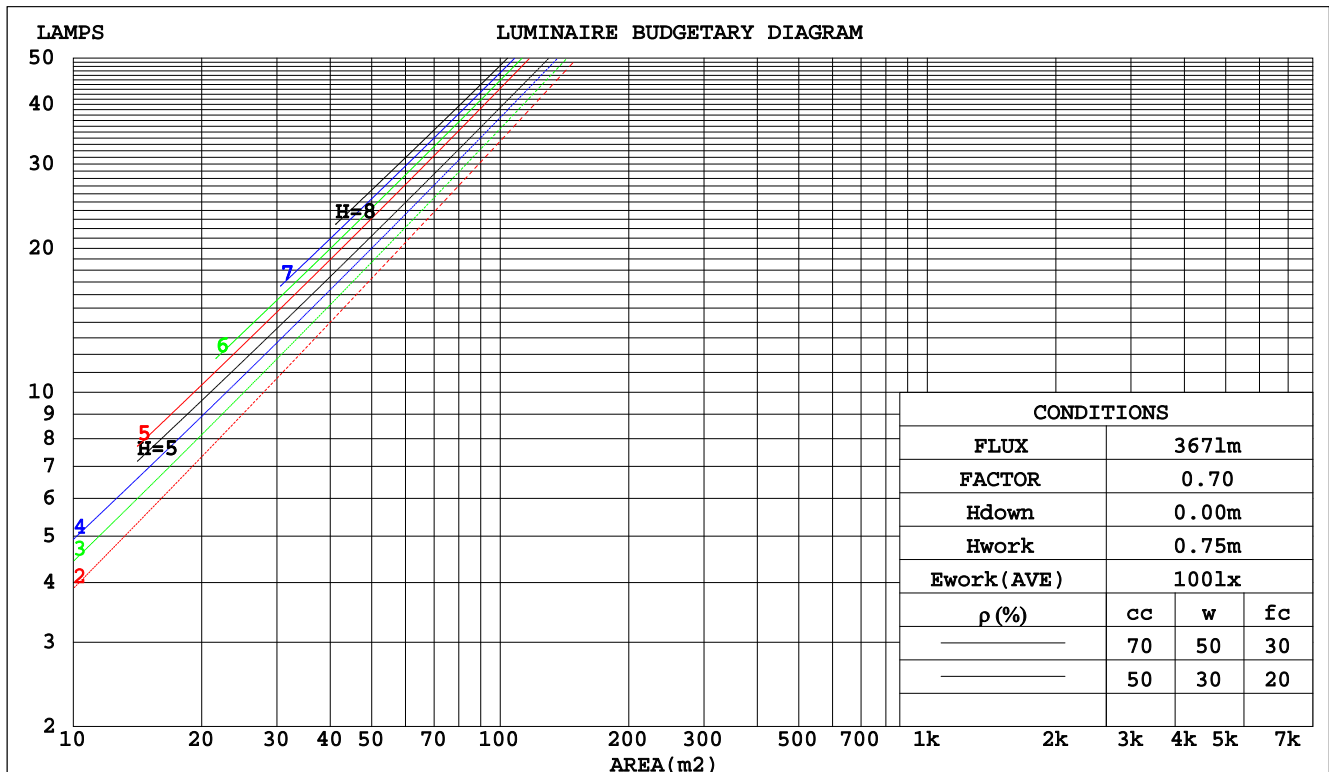
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.: $\phi 25\text{mm} \times \text{H}40\text{mm}$	
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	.00
1.0	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.07	1.04	1.01	1.06	1.03	1.00	1.02	1.00	.98	.00	.98	.96	.97	.95	.94	.93
3.0	1.02	.99	.96	1.01	.98	.95	.99	.96	.93	.96	.94	.92	.94	.92	.91	.89
4.0	.98	.94	.91	.97	.93	.90	.95	.92	.89	.93	.90	.88	.91	.89	.87	.86
5.0	.94	.90	.87	.93	.89	.86	.92	.88	.86	.90	.87	.85	.89	.86	.84	.83
6.0	.91	.87	.83	.90	.86	.83	.89	.85	.83	.88	.84	.82	.86	.84	.82	.80
7.0	.88	.83	.80	.87	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.78
8.0	.85	.81	.78	.84	.80	.77	.83	.80	.77	.83	.79	.77	.82	.79	.77	.76
9.0	.82	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.75	.80	.77	.74	.73
10.0	.80	.76	.73	.80	.76	.73	.79	.75	.73	.78	.75	.73	.78	.75	.72	.71



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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	.141	.080	.025	.134	.076	.024	.122	.070	.022	.110	.064	.020	.100	.058	.019		
2.0	.131	.072	.022	.126	.069	.021	.115	.064	.020	.106	.059	.019	.097	.055	.017		
3.0	.123	.065	.020	.118	.063	.019	.110	.059	.018	.102	.056	.017	.094	.052	.016		
4.0	.115	.060	.018	.111	.058	.017	.104	.055	.016	.097	.052	.016	.091	.050	.015		
5.0	.109	.055	.016	.105	.054	.016	.099	.052	.015	.093	.049	.015	.088	.047	.014		
6.0	.103	.052	.015	.100	.051	.015	.095	.049	.014	.090	.047	.014	.085	.045	.013		
7.0	.098	.048	.014	.095	.048	.014	.091	.046	.013	.086	.044	.013	.082	.043	.013		
8.0	.093	.046	.013	.091	.045	.013	.087	.043	.012	.083	.042	.012	.080	.041	.012		
9.0	.089	.043	.012	.087	.042	.012	.084	.041	.012	.080	.040	.011	.077	.039	.011		
10.0	.085	.041	.011	.084	.040	.011	.080	.039	.011	.077	.038	.011	.074	.037	.011		

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	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.151	.133	.117	.129	.114	.102	.089	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.136	.113	.095	.117	.098	.082	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.124	.098	.078	.106	.085	.068	.073	.059	.048	.042	.035	.028	.014	.011	.009	
5.0	.114	.086	.065	.097	.074	.057	.067	.052	.040	.039	.030	.024	.013	.010	.008	
6.0	.105	.076	.055	.090	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.097	.068	.047	.084	.059	.041	.058	.041	.029	.034	.024	.017	.011	.008	.006	
8.0	.091	.061	.040	.078	.053	.035	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.085	.055	.035	.073	.048	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
10.0	.080	.051	.031	.069	.044	.027	.048	.031	.019	.028	.018	.011	.009	.006	.004	

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

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.1106A P:5.310W PF:1.000 Freq:0Hz Lamp Flux:367.445x1 lm										
NAME: ML26-RS25-5W-930-18					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	25.0	25.6	25.2	25.8	25.9	20.8	21.5	21.0	21.6	21.8
3H	24.8	25.5	25.1	25.6	25.8	20.7	21.3	20.9	21.5	21.7
4H	24.8	25.4	25.0	25.6	25.8	20.6	21.2	20.9	21.4	21.6
6H	24.7	25.2	25.0	25.5	25.7	20.5	21.1	20.8	21.3	21.5
8H	24.6	25.2	24.9	25.4	25.7	20.5	21.0	20.8	21.3	21.5
12H	24.6	25.1	24.9	25.4	25.6	20.4	20.9	20.7	21.2	21.5
4H 2H	24.7	25.3	25.0	25.6	25.8	20.7	21.3	20.9	21.5	21.7
3H	24.6	25.1	24.9	25.4	25.7	20.5	21.0	20.8	21.3	21.6
4H	24.5	25.0	24.8	25.3	25.6	20.4	20.9	20.7	21.2	21.5
6H	24.4	24.8	24.8	25.2	25.5	20.3	20.7	20.7	21.1	21.4
8H	24.4	24.8	24.7	25.1	25.5	20.2	20.6	20.6	21.0	21.4
12H	24.3	24.7	24.7	25.0	25.4	20.2	20.6	20.6	20.9	21.3
8H 4H	24.4	24.8	24.7	25.1	25.5	20.3	20.7	20.6	21.0	21.4
6H	24.2	24.6	24.7	25.0	25.4	20.1	20.5	20.6	20.9	21.3
8H	24.2	24.5	24.6	24.9	25.3	20.1	20.4	20.5	20.8	21.2
12H	24.1	24.4	24.6	24.8	25.3	20.0	20.3	20.5	20.7	21.2
12H 4H	24.3	24.7	24.7	25.0	25.4	20.2	20.6	20.6	20.9	21.3
6H	24.2	24.5	24.6	24.9	25.3	20.1	20.4	20.5	20.8	21.2
8H	24.1	24.4	24.6	24.8	25.3	20.0	20.3	20.5	20.7	21.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / - 9.1					+ 3.4 / - 9.6				
1.5H	+ 3.9 / - 8.0					+ 3.6 / - 7.5				
2.0H	+ 6.0 / - 7.7					+ 5.3 / - 5.6				

CIE Pub.117, 367.4 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -3.5$)

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C Interval: 15.0DEG
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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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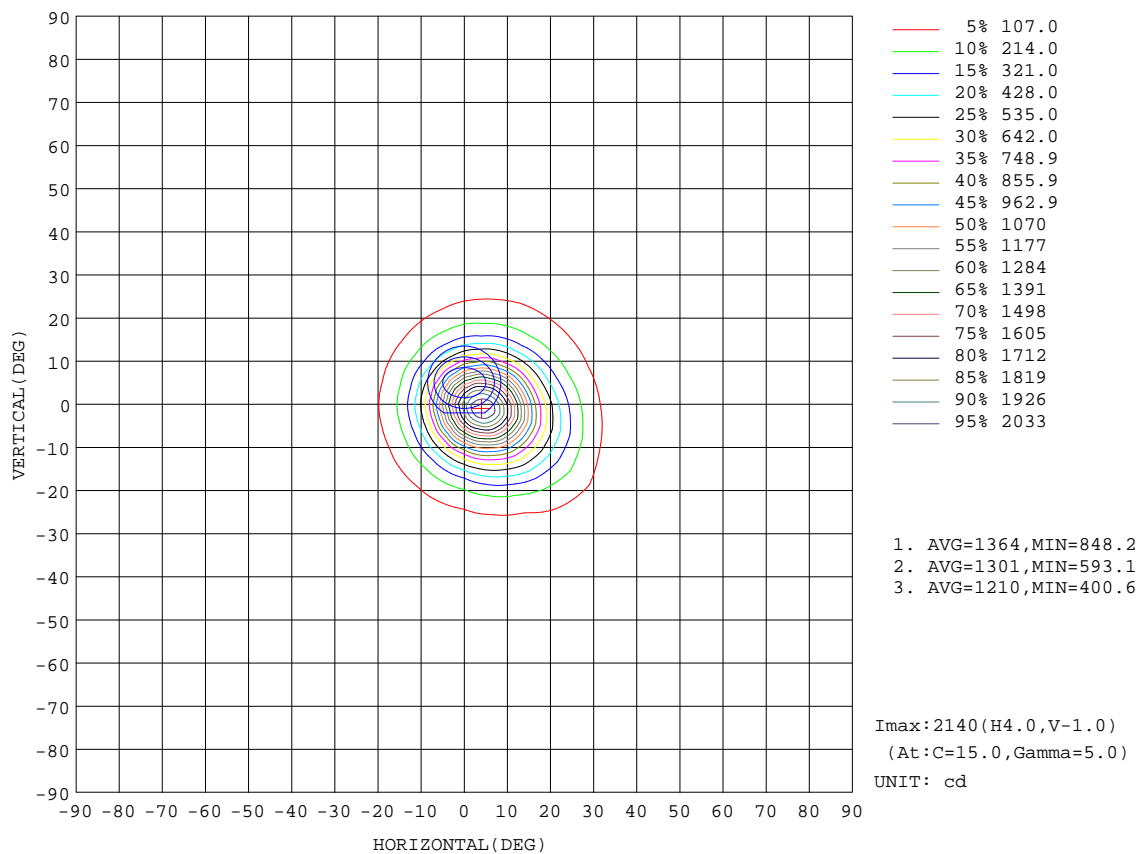
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	95	91	87	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	91
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	115	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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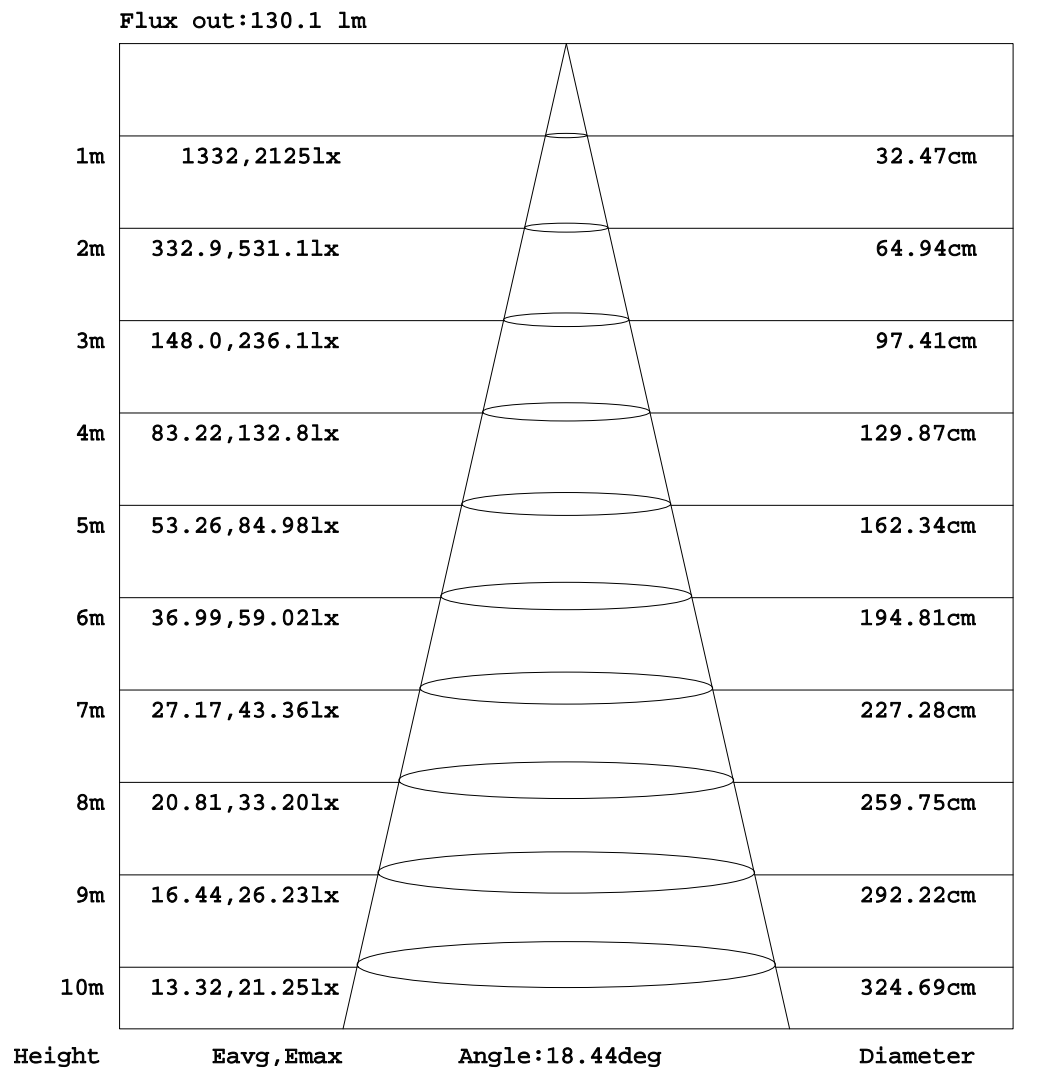


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AAI Figure

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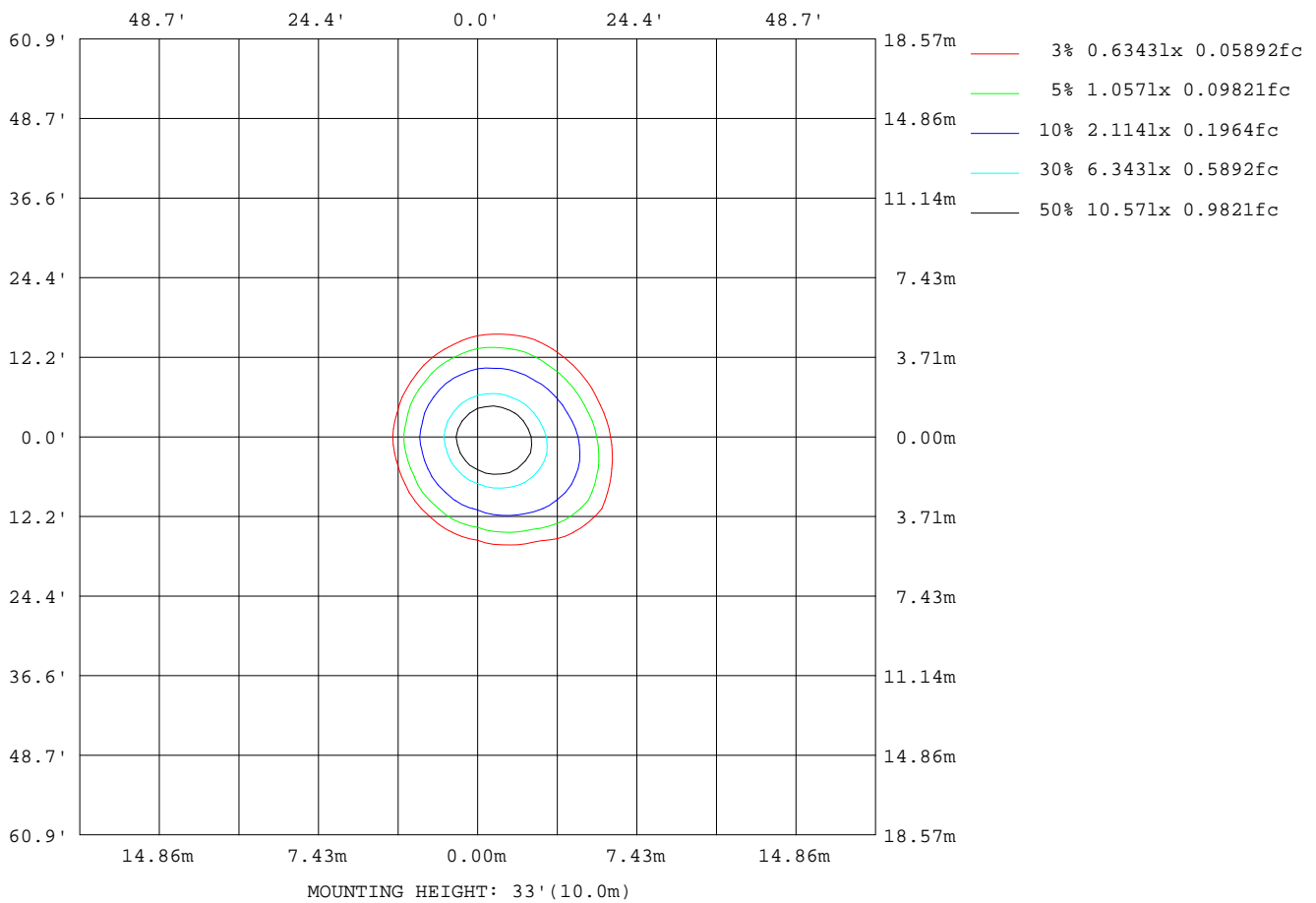
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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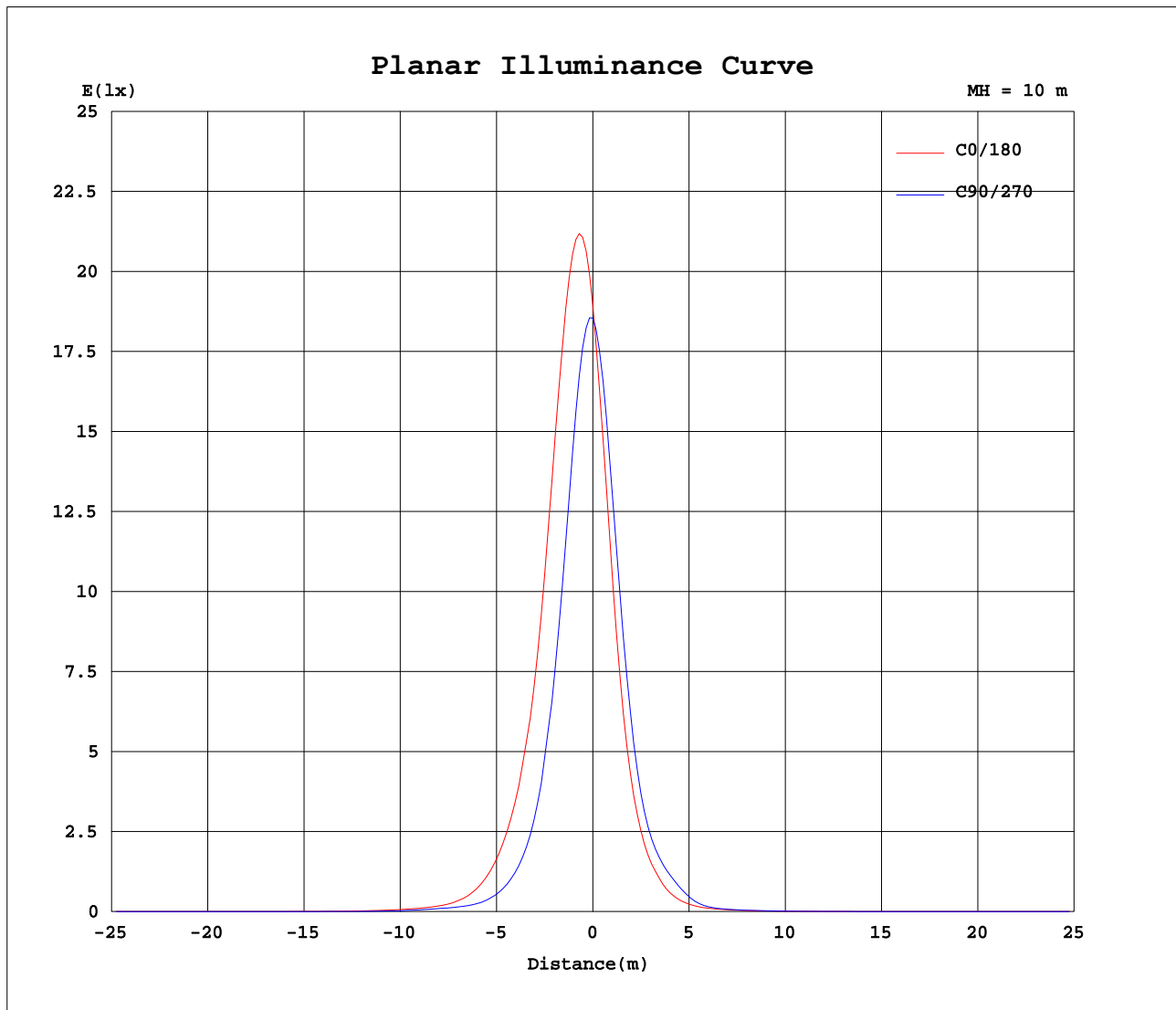
AvgL	cd/m2
L_0~180 (65) av	3652
L_0~180 (75) av	850
L_0~180 (85) av	402
L_90~270 (65) av	2604
L_90~270 (75) av	216
L_90~270 (85) av	205
L_45 (65) av	3059
L_45 (75) av	341
L_45 (85) av	282

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:

```