

Low Voltage Track System Module LX26-RS25-5W-927-30



Light Output Ratio:	100.0%	
Luminaire Power:	5.098 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  
Test Date: 2020-05-11

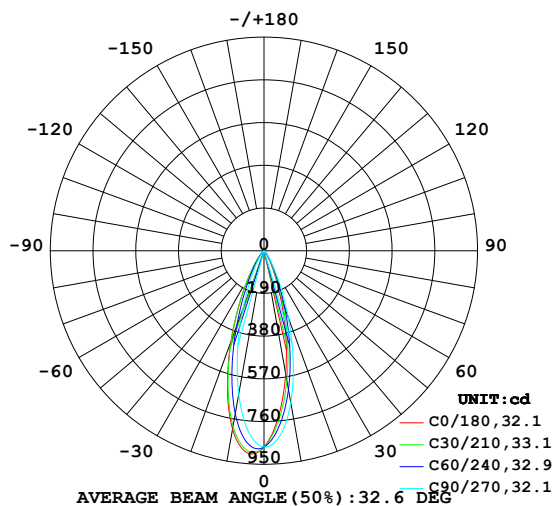
γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

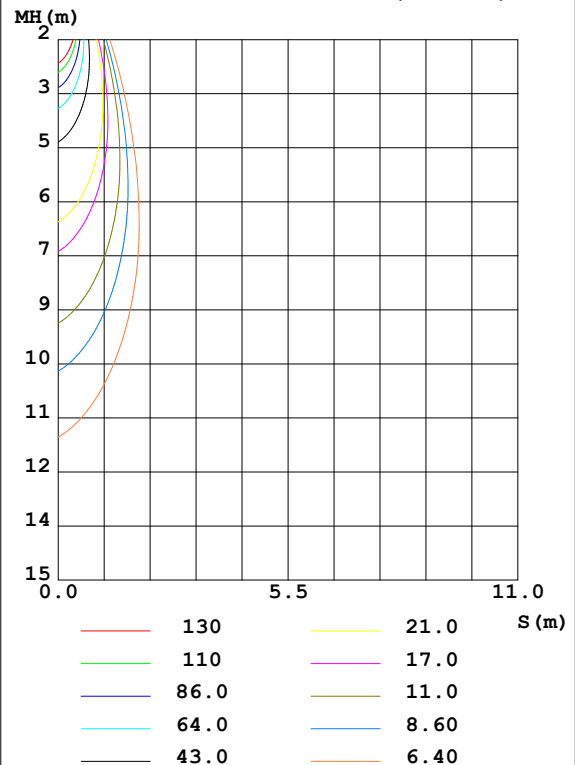
Test:U:48.00V I:0.1062A P:5.098W PF:1.000 Freq:0Hz Lamp Flux:326.92x1 lm		
NAME: ML26-RS25-5W-927-30	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: $\varnothing 25\text{mm} \times \text{H}40\text{mm}$	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 64.13 lm/W			
MODEL	OSRAM-2700K	I <sub>max</sub> (cd)	913.1	S/MH (C0/180)	0.63
NOMINAL POWER (W)	5	LOR (%)	100.0	S/MH (C90/270)	0.51
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	326.92	$\eta$ UP, DN (C0-180)	0.0, 50.1
NOMINAL FLUX (lm)	326.92	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 49.9
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	48	$\eta$ down (%)	100.0	CIBSE SHR MAX	0.55

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 58%  
 Test Distance: 5.850m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	557.7	605.9	686.8	778.3	806.1	766.6	648.1	550.8	0- 10	73.47	73.47	22.5,22.5
20	209.8	251.9	317.7	395.8	430.4	392.1	272.2	200.3	10- 20	133.2	206.7	63.2,63.2
30	52.73	65.97	80.42	112.1	139.9	122.6	74.86	53.92	20- 30	80.42	287.1	87.8,87.8
40	12.85	16.61	20.27	25.62	34.20	30.14	18.28	11.68	30- 40	28.98	316.1	96.7,96.7
50	2.858	3.351	4.392	5.522	7.285	5.621	3.683	2.722	40- 50	8.161	324.3	99.2,99.2
60	0.4051	0.6448	1.112	1.729	2.096	1.583	0.9066	0.3792	50- 60	2.213	326.5	99.9,99.9
70	0.0246	0.0175	0.0414	0.0452	0.1393	0.0949	0.0236	0.0237	60- 70	0.4058	326.9	100,100
80	0.0178	0.0175	0.0195	0.0173	0.0134	0.0219	0.0130	0.0151	70- 80	0.0244	326.9	100,100
90	0.0178	0.0175	0.0174	0.0173	0.0134	0.0153	0.0130	0.0130	80- 90	0.0174	326.9	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): 321.56 lm

%lum = 98.4%

%lamp = 98.4%

Conical surface Flux(120deg): 326.47 lm

%lum = 99.9%

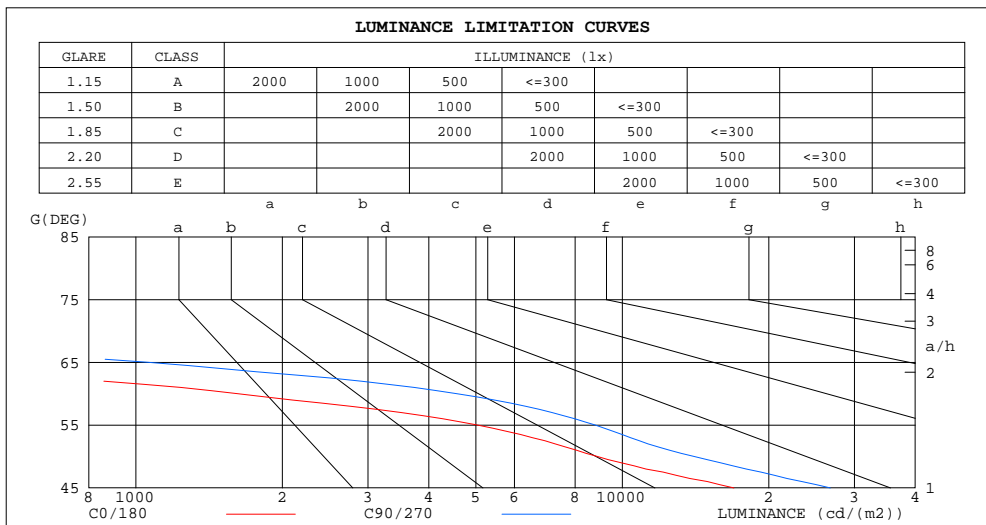
%lamp = 99.9%

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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**

Test:U:48.00V I:0.1062A P:5.098W PF:1.000 Freq:0Hz Lamp Flux:326.92x1 lm		
NAME: ML26-RS25-5W-927-30	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: $\phi$ 25mm*H40mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	409	409
80	205	231
75	155	172
70	144	248
65	265	1060
60	1618	4565
55	5037	8799
50	8881	14031
45	16956	26767

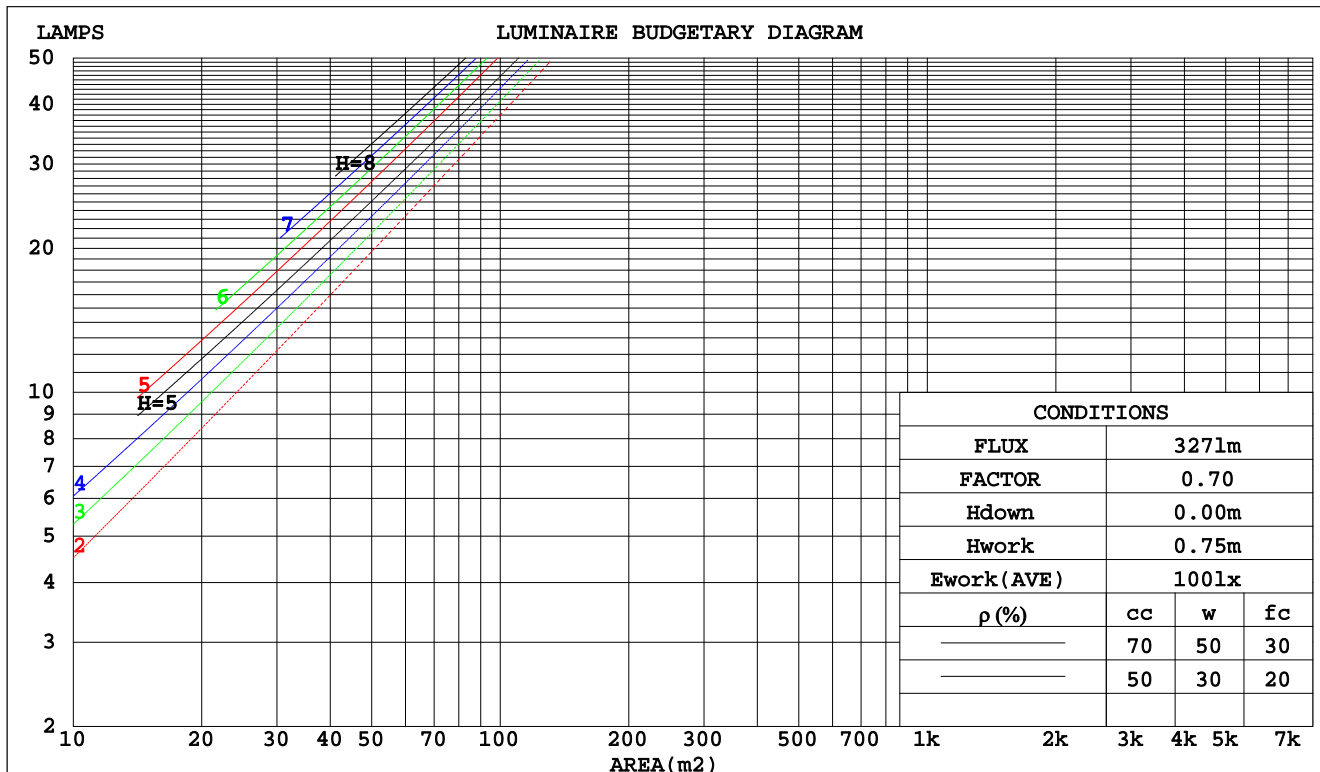
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Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
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Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:48.00V I:0.1062A P:5.098W PF:1.000 Freq:0Hz Lamp Flux:326.92x1 lm		
NAME: ML26-RS25-5W-927-30	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: $\phi$ 25mm*H40mm	
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	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	1.12	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	1.06	1.02	.00	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.91	.89	.92	.90	.88	.86
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.88	.86	.84	.82
5.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.87	.83	.81	.85	.82	.80	.79
6.0	.87	.82	.78	.86	.81	.78	.85	.81	.78	.83	.80	.77	.82	.79	.77	.75
7.0	.83	.78	.75	.82	.78	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.72
8.0	.80	.75	.71	.79	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.69
9.0	.76	.72	.68	.76	.71	.68	.75	.71	.68	.74	.71	.68	.74	.70	.68	.67
10.0	.74	.69	.66	.73	.69	.66	.72	.68	.65	.72	.68	.65	.71	.68	.65	.64



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Test Speed: HIGH  
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Operators:Jason  
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 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:5.850m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:48.00V I:0.1062A P:5.098W PF:1.000 Freq:0Hz Lamp Flux:326.92x1 lm		
NAME: ML26-RS25-5W-927-30	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: $\varnothing$ 25mm*H40mm	
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						Wall Exitance Coefficients(WEC)											
0.0																		
1.0	.153	.087	.028	.147	.084	.027	.134	.077	.025	.123	.071	.023	.112	.065	.021			
2.0	.144	.079	.024	.139	.076	.024	.128	.071	.022	.119	.067	.021	.110	.062	.020			
3.0	.136	.072	.022	.131	.070	.021	.123	.066	.020	.115	.063	.019	.107	.059	.018			
4.0	.129	.067	.020	.125	.065	.019	.117	.062	.019	.110	.059	.018	.104	.057	.017			
5.0	.122	.062	.018	.119	.061	.018	.112	.059	.017	.106	.056	.017	.101	.054	.016			
6.0	.116	.058	.017	.113	.057	.016	.108	.055	.016	.103	.053	.016	.098	.051	.015			
7.0	.111	.055	.016	.108	.054	.015	.103	.052	.015	.099	.051	.015	.095	.049	.014			
8.0	.106	.052	.015	.104	.051	.014	.099	.050	.014	.095	.048	.014	.092	.047	.014			
9.0	.102	.049	.014	.100	.049	.014	.096	.047	.013	.092	.046	.013	.089	.045	.013			
10.0	.098	.047	.013	.096	.046	.013	.092	.045	.013	.089	.044	.013	.086	.043	.012			

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						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	.147	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.153	.133	.116	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013		
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011		
4.0	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009		
5.0	.117	.086	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008		
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.038	.027	.019	.012	.009	.006		
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.005		
8.0	.096	.062	.039	.083	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005		
9.0	.091	.057	.034	.078	.049	.029	.054	.035	.021	.032	.020	.012	.010	.007	.004		
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004		

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:0.1062A P:5.098W PF:1.000 Freq:0Hz Lamp Flux:326.92x1 lm										
NAME: ML26-RS25-5W-927-30					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	18.2	19.0	18.4	19.1	19.3	20.1	20.8	20.3	21.0	21.2
3H	18.1	18.8	18.3	19.0	19.2	19.9	20.6	20.2	20.8	21.0
4H	18.0	18.6	18.2	18.9	19.1	19.8	20.5	20.1	20.7	20.9
6H	17.9	18.5	18.2	18.8	19.0	19.7	20.4	20.0	20.6	20.9
8H	17.8	18.5	18.1	18.7	19.0	19.7	20.3	20.0	20.6	20.8
12H	17.8	18.4	18.1	18.6	18.9	19.7	20.2	20.0	20.5	20.8
4H 2H	18.0	18.7	18.3	18.9	19.1	19.8	20.5	20.1	20.7	20.9
3H	17.8	18.4	18.1	18.7	18.9	19.7	20.3	20.0	20.5	20.8
4H	17.7	18.3	18.1	18.6	18.9	19.6	20.1	19.9	20.4	20.7
6H	17.6	18.1	18.0	18.4	18.8	19.5	19.9	19.8	20.3	20.6
8H	17.6	18.0	18.0	18.4	18.7	19.4	19.9	19.8	20.2	20.6
12H	17.5	17.9	17.9	18.3	18.7	19.4	19.8	19.8	20.1	20.5
8H 4H	17.6	18.0	18.0	18.4	18.7	19.4	19.9	19.8	20.2	20.6
6H	17.5	17.8	17.9	18.2	18.6	19.3	19.7	19.7	20.1	20.5
8H	17.4	17.7	17.8	18.1	18.6	19.3	19.6	19.7	20.0	20.4
12H	17.3	17.6	17.8	18.1	18.5	19.2	19.5	19.7	19.9	20.4
12H 4H	17.5	17.9	17.9	18.3	18.7	19.4	19.8	19.8	20.1	20.5
6H	17.4	17.7	17.8	18.1	18.6	19.3	19.6	19.7	20.0	20.4
8H	17.3	17.6	17.8	18.1	18.5	19.2	19.5	19.7	19.9	20.4
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / -11.0					+ 3.6 / - 9.4				
1.5H	+ 4.5 / - 7.0					+ 5.6 / - 7.6				
2.0H	+ 5.4 / -13.6					+ 6.2 / -12.4				

CIE Pub.117, 326.9 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  
Operators:Jason  
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$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

Test:U:48.00V I:0.1062A P:5.098W PF:1.000 Freq:0Hz Lamp Flux:326.92x1 lm		
NAME: ML26-RS25-5W-927-30	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: $\varnothing 25\text{mm} \times \text{H}40\text{mm}$	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	80	88	83	80	76
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	100	98	94
2.00	109	105	103	108	104	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		

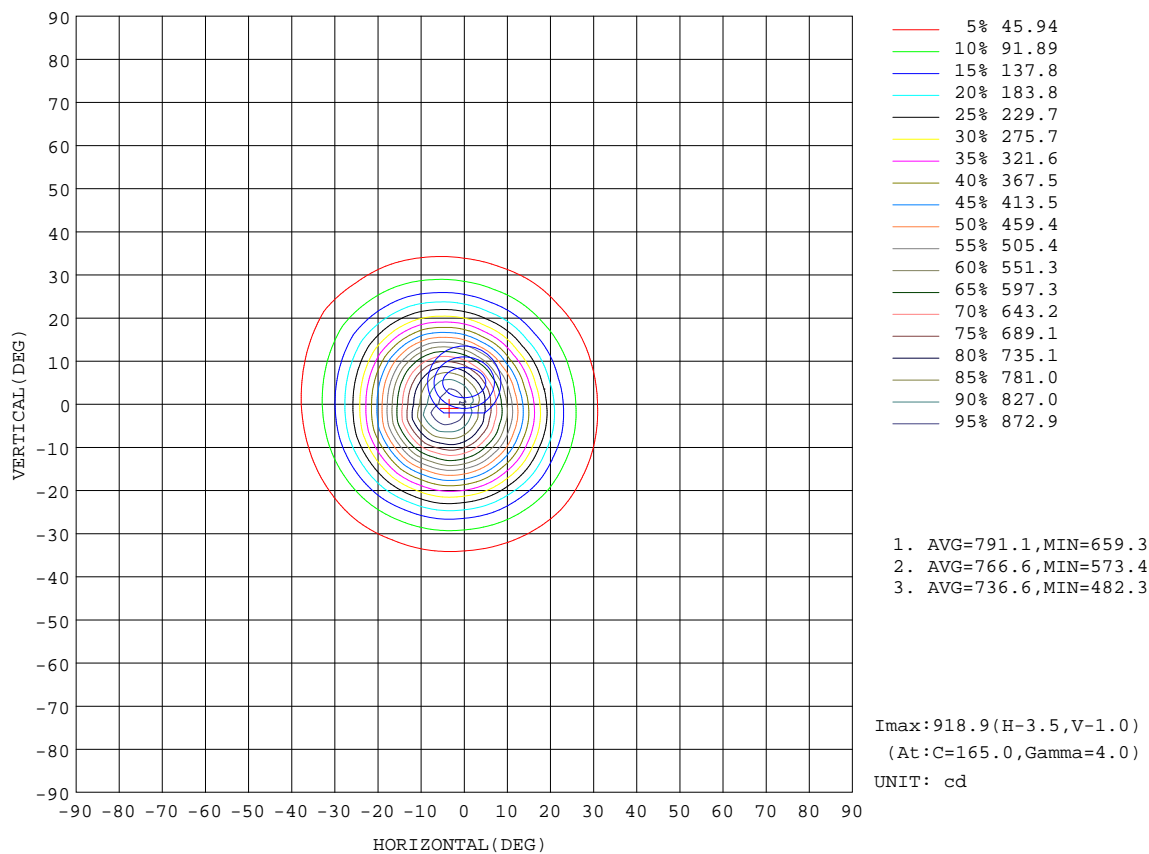
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ISOCANDELA DIAGRAM

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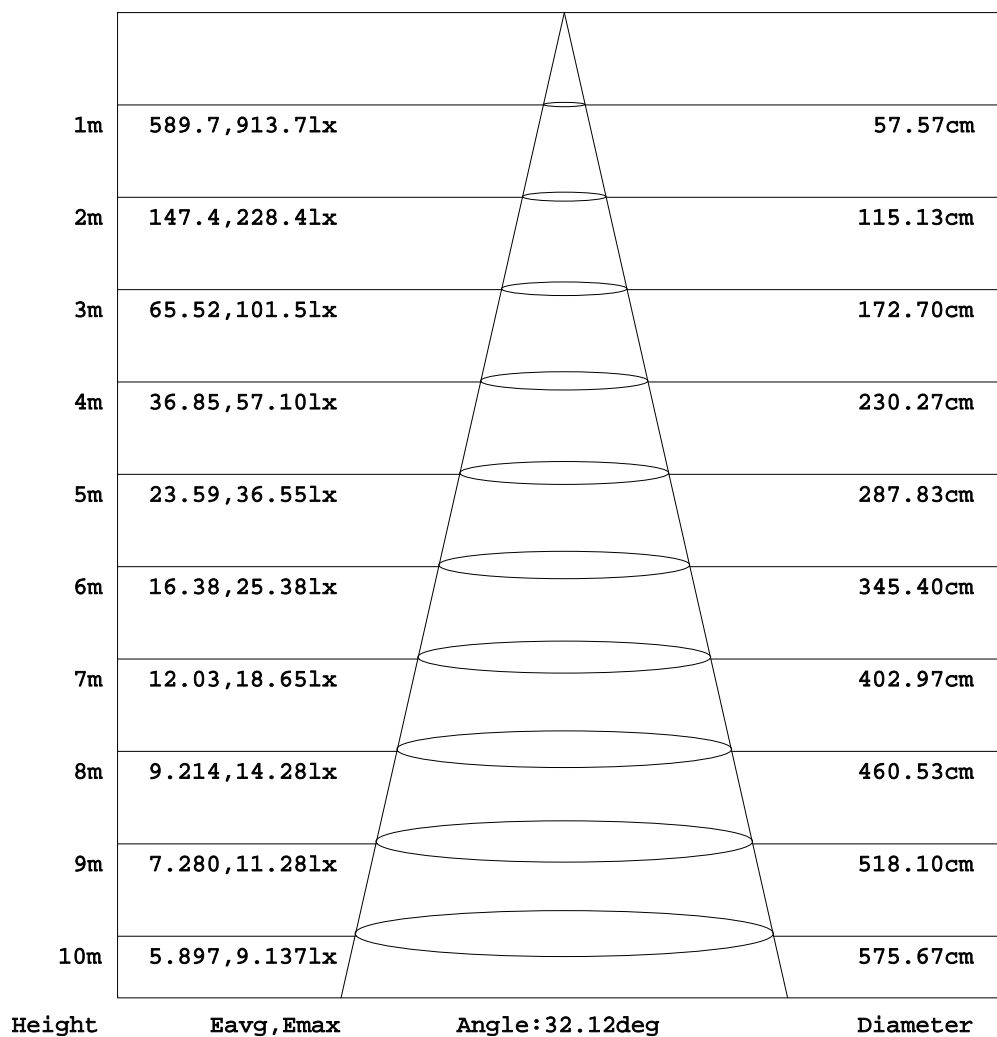
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**AAI Figure**

Test:U:48.00V I:0.1062A P:5.098W PF:1.000 Freq:0Hz Lamp Flux:326.92x1 lm		
NAME: ML26-RS25-5W-927-30	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: $\phi$ 25mm*H40mm	
MFR.: NEKO LIGHTING AG		

Flux out:162.5 lm



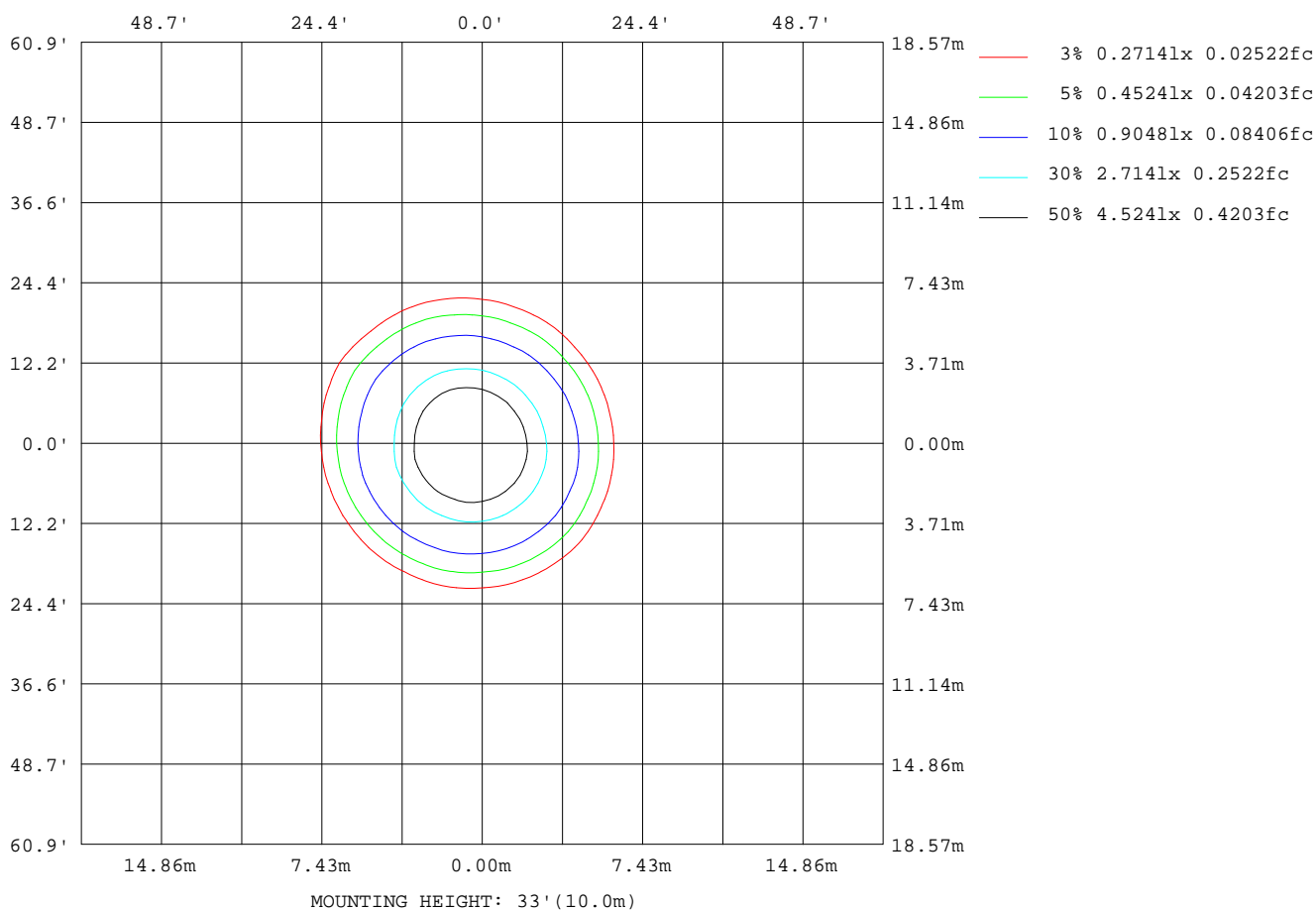
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

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SPEC.:2700K	DIM.: $\phi$ 25mm*H40mm	
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Remarks:

### LED Avg.L Report

Test:U:48.00V I:0.1062A P:5.098W PF:1.000 Freq:0Hz Lamp Flux:326.92x1 lm		
NAME: ML26-RS25-5W-927-30	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: $\phi$ 25mm*H40mm	
MFR.: NEKO LIGHTING AG		

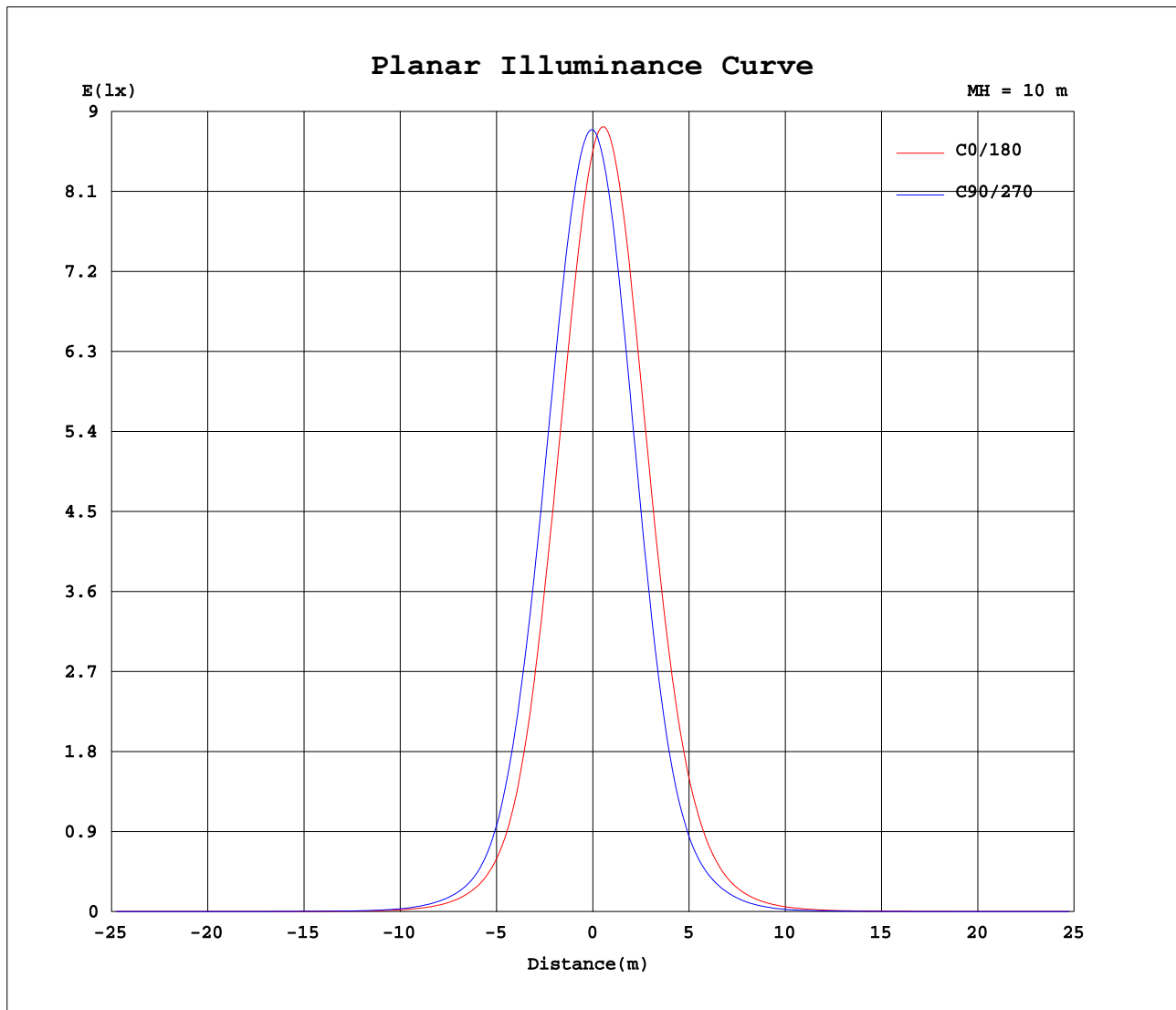
AvgL	cd/m2
L_0~180 (65) av	2084
L_0~180 (75) av	132
L_0~180 (85) av	365
L_90~270 (65) av	911
L_90~270 (75) av	137
L_90~270 (85) av	355
L_45 (65) av	1683
L_45 (75) av	171
L_45 (85) av	394

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:

```