

Low Voltage Track System Module ML26-RT55-10W-927-20-40#20



Light Output Ratio:	100.0%	
Luminaire Power:	10.01 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

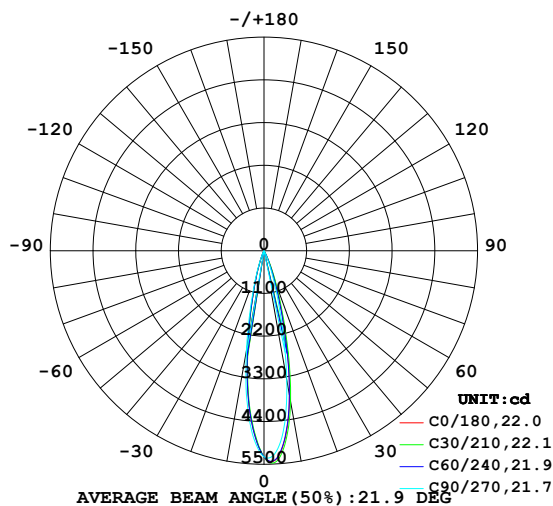
$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

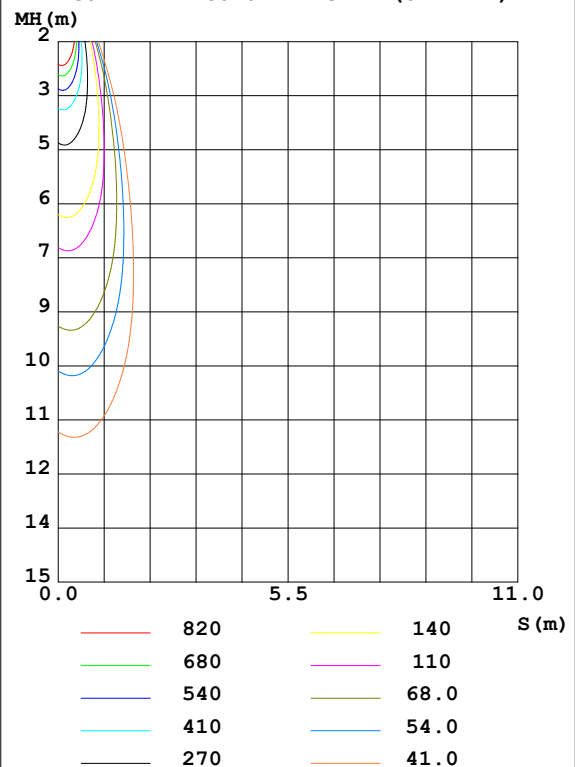
Test:U:48.00V I:0.2085A P:10.01W PF:1.000 Freq:0Hz Lamp Flux:898.454x1 lm		
NAME: ML26-RT55-10W-927-20-40#20	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: $\phi$ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.76 lm/W			
MODEL	CITIZEN-2700K	I <sub>max</sub> (cd)	5482	S/MH (C0/180)	0.32
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.34
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	898.45	$\eta$ UP,DN (C0-180)	0.0,55.5
NOMINAL FLUX (lm)	898.454	CIE CLASS	DIRECT	$\eta$ UP,DN (C180-360)	0.0,44.5
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	48	$\eta$ 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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Remarks:

### ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	3805	3936	3390	2756	2384	2298	2615	3196	0- 10	391.7	391.7	43.6,43.6
20	834.5	874.5	569.9	367.3	322.6	321.6	372.9	555.4	10- 20	400.7	792.5	88.2,88.2
30	59.68	64.52	44.05	38.48	34.05	36.54	37.88	43.46	20- 30	85.21	877.7	97.7,97.7
40	13.16	15.06	12.64	10.02	8.918	10.02	10.97	9.941	30- 40	14.35	892.0	99.3,99.3
50	3.632	4.076	3.437	2.576	2.165	2.303	2.678	2.739	40- 50	4.769	896.8	99.8,99.8
60	0.6422	0.6509	0.6530	0.4527	0.4077	0.6364	0.4272	0.5741	50- 60	1.243	898.0	100,100
70	0.1575	0.1550	0.1030	0.0635	0.0479	0.0722	0.0654	0.0987	60- 70	0.3116	898.4	100,100
80	0.0524	0.0350	0.0502	0.0350	0.0305	0.0393	0.0284	0.0438	70- 80	0.0570	898.4	100,100
90	0.0371	0.0350	0.0371	0.0372	0.0305	0.0284	0.0284	0.0285	80- 90	0.0380	898.5	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): 895.09 lm

%lum = 99.6%

%lamp = 99.6%

Conical surface Flux(120deg): 898.05 lm

%lum = 100.0%

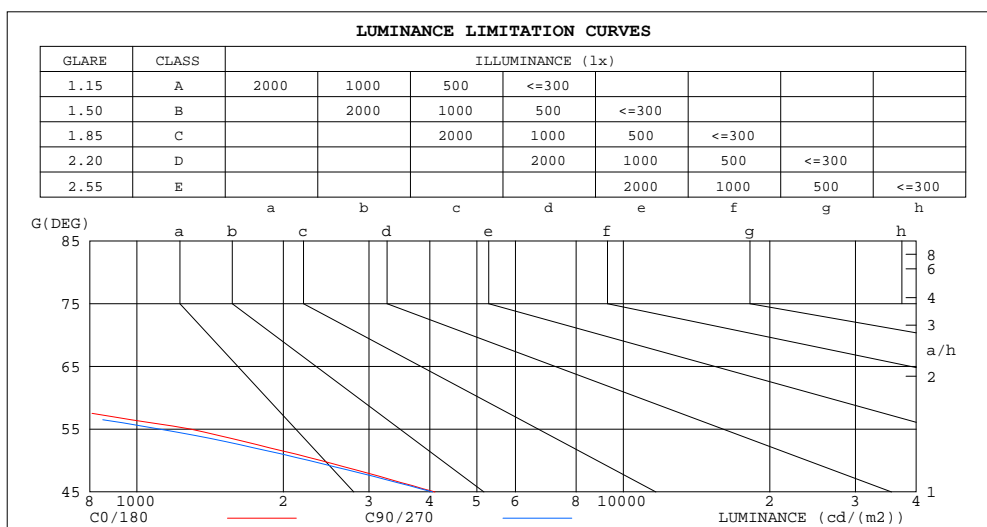
%lamp = 100.0%

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Operators:Jason  
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 $\gamma$  Interval: 0.5DEG  
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Test Distance:5.850m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

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SPEC.:2700K	DIM.: $\phi$ 55mm*H150mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	190	201
80	127	122
75	110	110
70	194	127
65	390	423
60	542	551
55	1288	1112
50	2385	2256
45	4100	4053

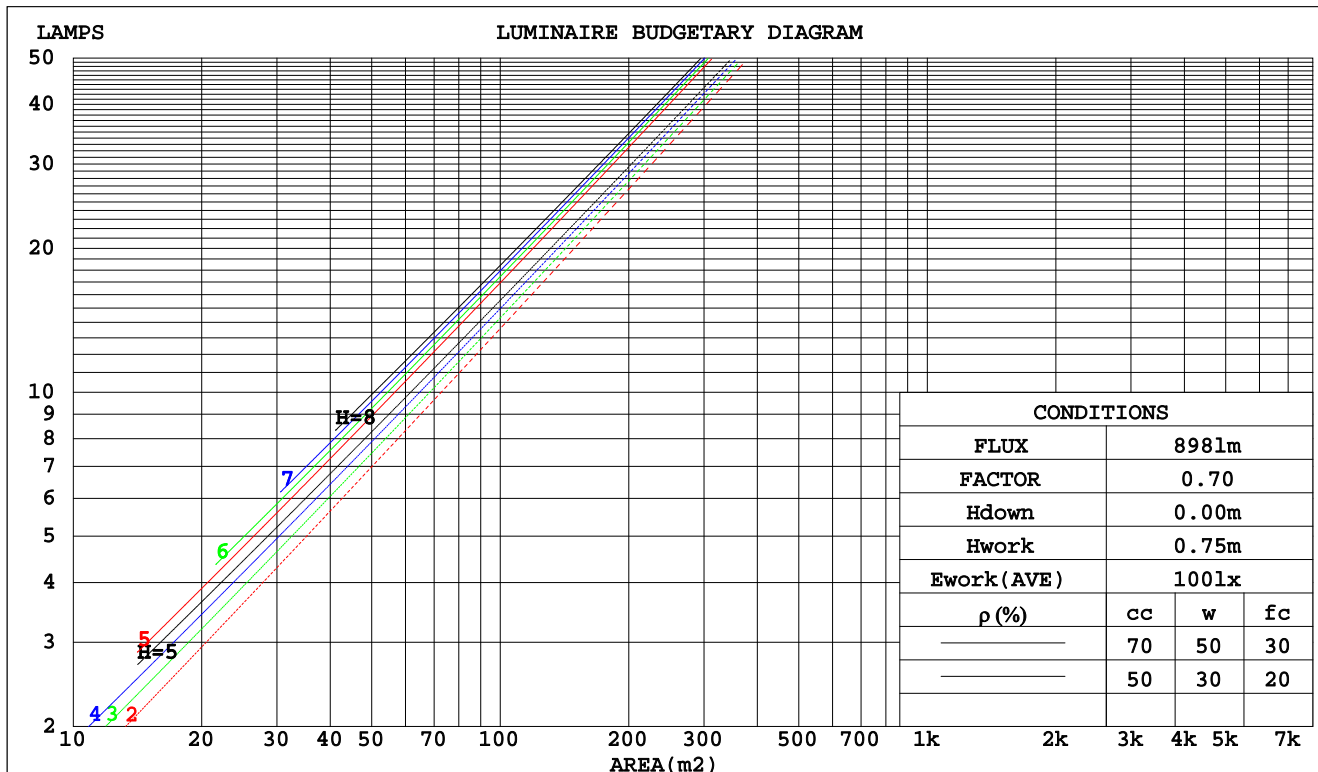
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.12	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	1.02	1.04	1.02	1.00	1.01	.00	.98	.98	.97	.96	.95
3.0	1.05	1.01	.99	1.03	1.00	.98	1.01	.98	.96	.99	.97	.95	.97	.95	.94	.92
4.0	1.01	.97	.95	.00	.97	.94	.98	.95	.93	.96	.94	.92	.95	.93	.91	.90
5.0	.98	.94	.91	.97	.94	.91	.95	.93	.90	.94	.92	.90	.93	.91	.89	.88
6.0	.95	.91	.89	.94	.91	.88	.93	.90	.88	.92	.89	.87	.91	.88	.87	.86
7.0	.92	.89	.86	.92	.88	.86	.91	.88	.86	.90	.87	.85	.89	.87	.85	.84
8.0	.90	.86	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.87	.85	.83	.82
9.0	.88	.84	.82	.88	.84	.82	.87	.84	.82	.86	.83	.81	.85	.83	.81	.80
10.0	.86	.82	.80	.86	.82	.80	.85	.82	.80	.84	.82	.80	.84	.81	.79	.79



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## WEC AND CCEC

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MFR.: NEKO LIGHTING AG		

$\rho_{cc}$	80%			70%			50%			30%			10%			0	
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
$\rho_{fc}$	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.128	.073	.023	.121	.069	.022	.109	.062	.020	.097	.056	.018	.087	.050	.016		
2.0	.117	.064	.020	.112	.062	.019	.102	.057	.018	.092	.052	.016	.084	.047	.015		
3.0	.108	.058	.017	.104	.056	.017	.096	.052	.016	.088	.048	.015	.081	.045	.014		
4.0	.101	.053	.015	.097	.051	.015	.090	.048	.014	.084	.045	.014	.078	.042	.013		
5.0	.095	.048	.014	.092	.047	.014	.086	.045	.013	.080	.042	.013	.075	.040	.012		
6.0	.089	.045	.013	.087	.044	.013	.082	.042	.012	.077	.040	.012	.072	.038	.011		
7.0	.085	.042	.012	.082	.041	.012	.078	.039	.011	.074	.038	.011	.070	.036	.011		
8.0	.080	.039	.011	.078	.039	.011	.075	.037	.011	.071	.036	.010	.068	.035	.010		
9.0	.077	.037	.010	.075	.037	.010	.072	.035	.010	.068	.034	.010	.065	.033	.010		
10.0	.073	.035	.010	.072	.035	.010	.069	.034	.010	.066	.033	.009	.063	.032	.009		

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	.128	.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	.080	.103	.084	.070	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.109	.085	.067	.094	.074	.059	.065	.051	.041	.037	.030	.025	.012	.010	.008	
6.0	.100	.075	.057	.086	.065	.050	.059	.045	.035	.034	.027	.021	.011	.009	.007	
7.0	.092	.067	.049	.079	.058	.043	.055	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.086	.060	.042	.074	.052	.037	.051	.036	.026	.030	.021	.016	.010	.007	.005	
9.0	.080	.054	.037	.069	.047	.032	.048	.033	.023	.028	.019	.014	.009	.006	.004	
10.0	.075	.049	.032	.064	.043	.028	.045	.030	.020	.026	.018	.012	.008	.006	.004	

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:

## UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.2085A P:10.01W PF:1.000 Freq:0Hz Lamp Flux:898.454x1 lm										
NAME: ML26-RT55-10W-927-20-40#20					TYPE:Low Voltage Track System Module					
SPEC.:2700K					DIM.: $\phi$ 55mm*H150mm					
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	5.8	6.3	6.0	6.5	6.6	4.9	5.5	5.1	5.6	5.8
3H	5.6	6.2	5.9	6.4	6.6	4.8	5.3	5.0	5.5	5.7
4H	5.6	6.1	5.8	6.3	6.5	4.7	5.2	5.0	5.4	5.7
6H	5.5	6.0	5.8	6.2	6.4	4.6	5.1	4.9	5.4	5.6
8H	5.4	5.9	5.7	6.2	6.4	4.6	5.1	4.9	5.3	5.6
12H	5.4	5.9	5.7	6.1	6.4	4.6	5.0	4.9	5.3	5.5
4H 2H	5.6	6.1	5.8	6.3	6.5	4.7	5.3	5.0	5.5	5.7
3H	5.4	5.9	5.7	6.1	6.4	4.6	5.1	4.9	5.3	5.6
4H	5.3	5.8	5.7	6.0	6.3	4.5	4.9	4.8	5.2	5.5
6H	5.2	5.6	5.6	5.9	6.3	4.4	4.8	4.8	5.1	5.4
8H	5.2	5.5	5.6	5.9	6.2	4.3	4.7	4.7	5.0	5.4
12H	5.1	5.4	5.5	5.8	6.2	4.3	4.6	4.7	5.0	5.4
8H 4H	5.2	5.5	5.6	5.9	6.2	4.3	4.7	4.7	5.0	5.4
6H	5.1	5.4	5.5	5.7	6.2	4.2	4.5	4.6	4.9	5.3
8H	5.0	5.3	5.4	5.7	6.1	4.2	4.4	4.6	4.8	5.3
12H	4.9	5.2	5.4	5.6	6.1	4.1	4.3	4.6	4.8	5.2
12H 4H	5.1	5.4	5.5	5.8	6.2	4.3	4.6	4.7	5.0	5.4
6H	5.0	5.3	5.4	5.7	6.1	4.2	4.4	4.6	4.8	5.3
8H	4.9	5.2	5.4	5.6	6.1	4.1	4.3	4.6	4.8	5.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.5 / - 9.2					+ 2.9 / - 8.9				
1.5H	+ 4.1 / - 6.2					+ 4.3 / - 6.0				
2.0H	+ 5.1 / - 7.4					+ 5.5 / - 7.3				

CIE Pub.117, 898.5 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -0.4$ )

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Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
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### UTILIZATION FACTORS TABLE

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SPEC.:2700K	DIM.: $\varnothing 55\text{mm} \times \text{H}150\text{mm}$	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	91	85	82	90	85	82	79
0.80	98	93	90	97	93	89	96	92	89	86
1.00	102	97	94	101	96	93	99	96	93	89
1.25	105	101	98	104	100	97	102	99	96	93
1.50	108	104	101	107	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	111	110	109	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

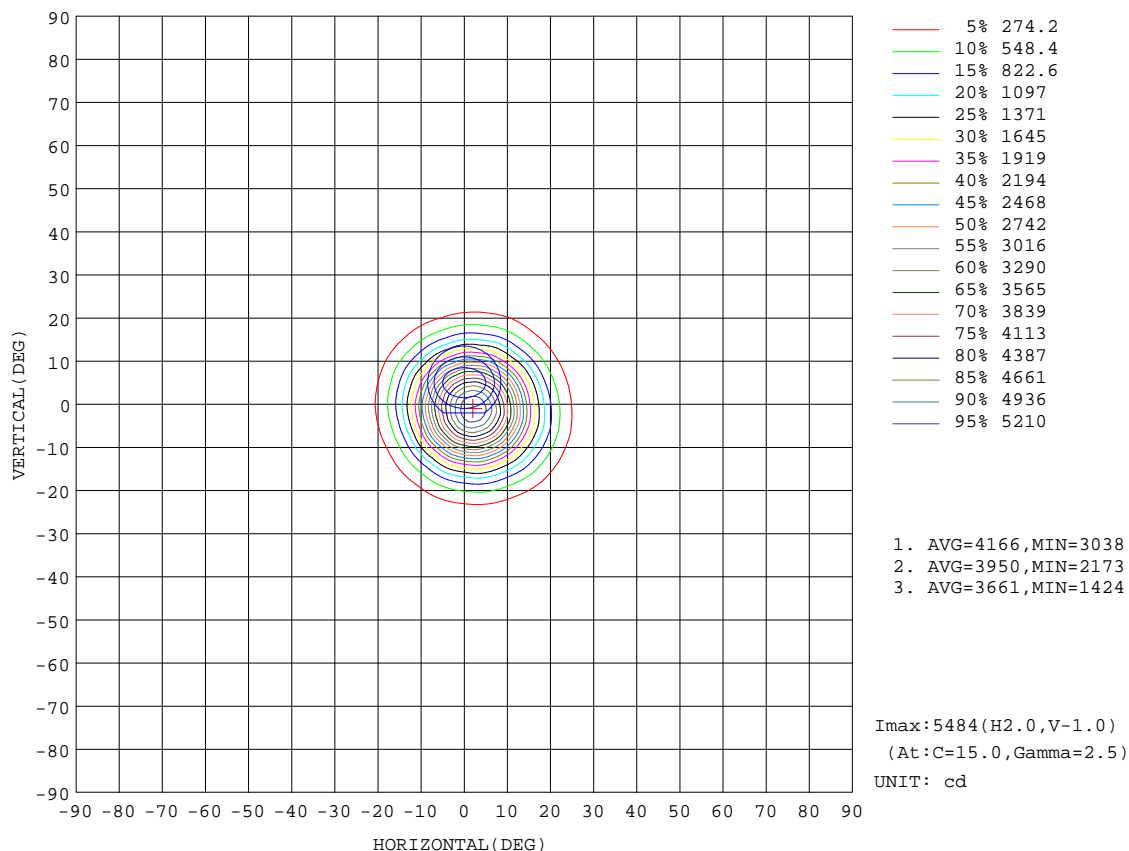
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ISOCANDELA DIAGRAM

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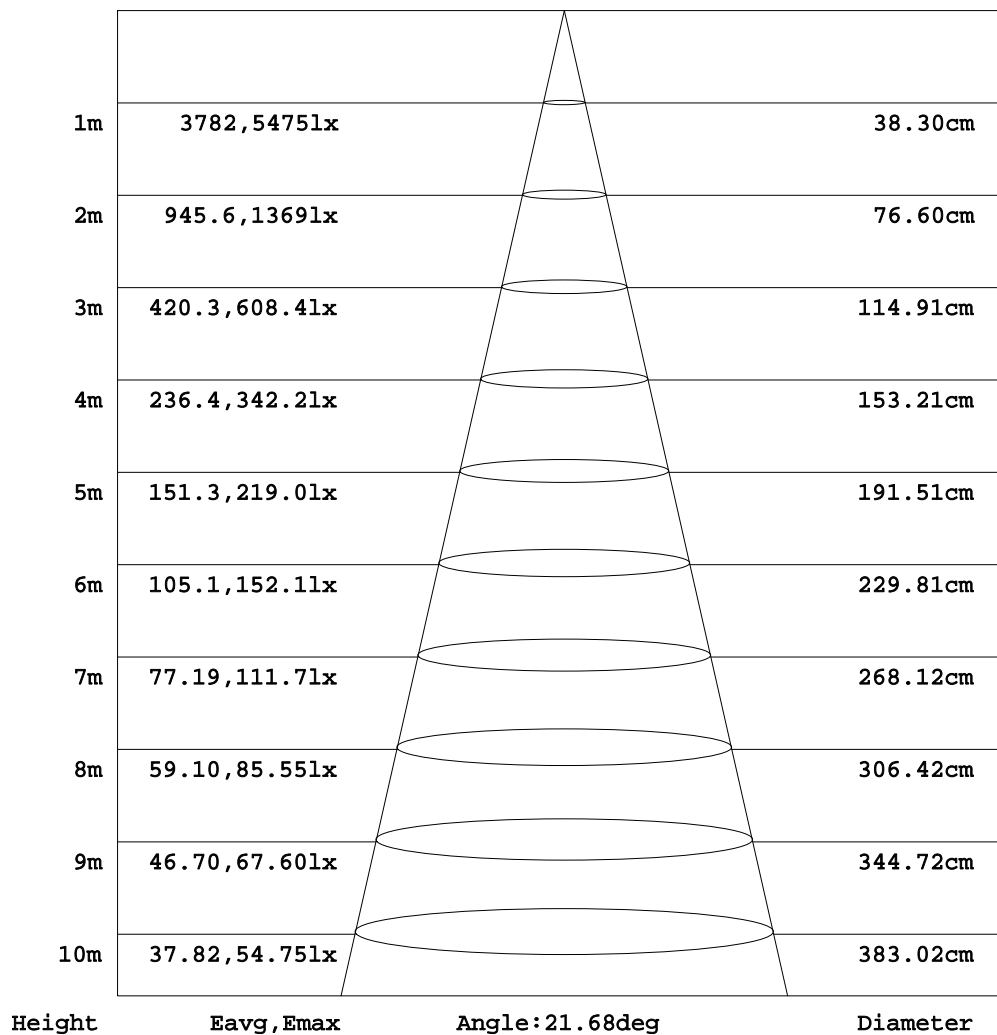
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**AAI Figure**

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Flux out:449.0 lm



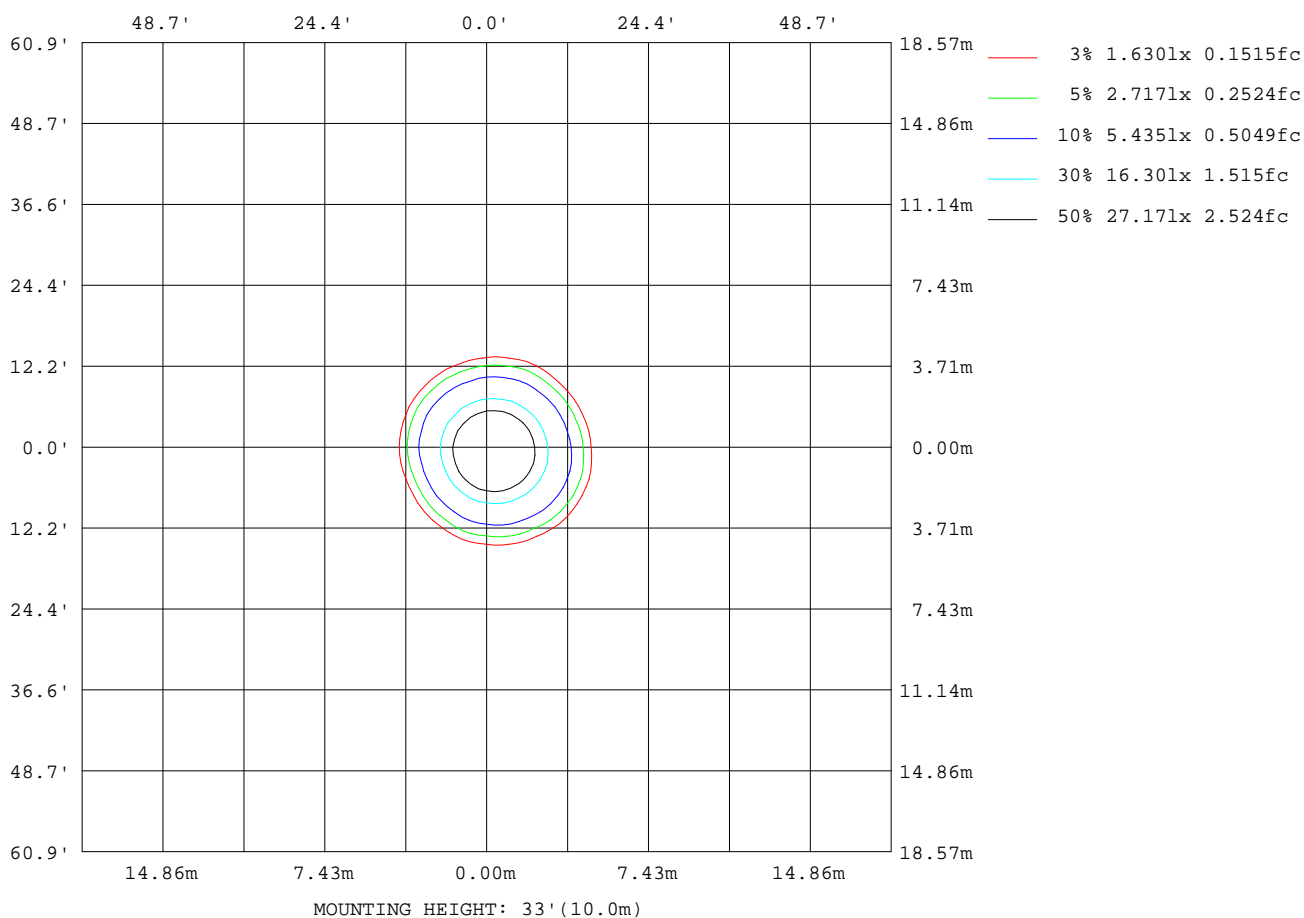
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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

### LED Avg.L Report

Test:U:48.00V I:0.2085A P:10.01W PF:1.000 Freq:0Hz Lamp Flux:898.454x1 lm		
NAME: ML26-RT55-10W-927-20-40#20	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: $\phi$ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

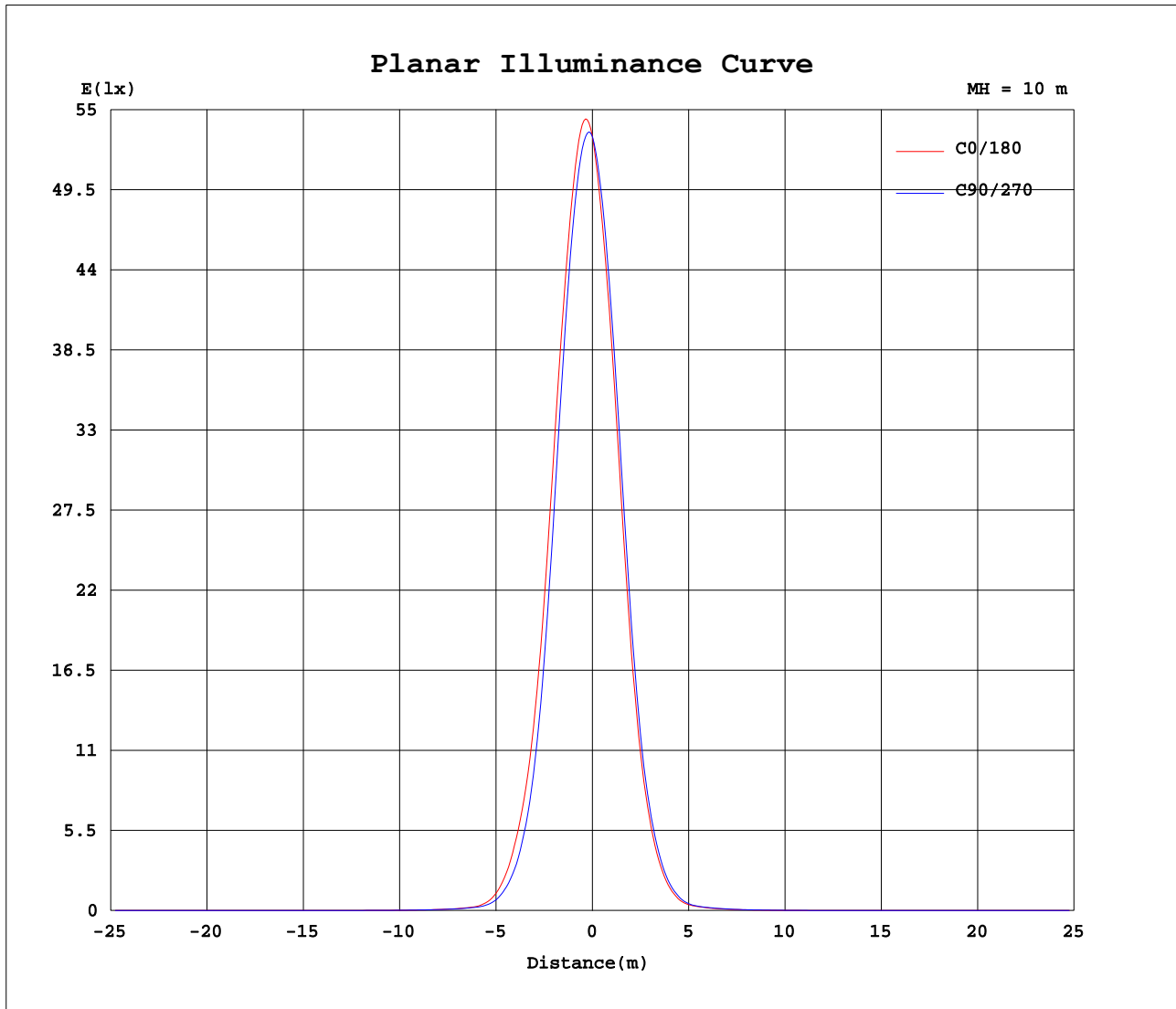
AvgL	cd/m2
L_0~180 (65) av	286
L_0~180 (75) av	82
L_0~180 (85) av	169
L_90~270 (65) av	326
L_90~270 (75) av	82
L_90~270 (85) av	169
L_45 (65) av	325
L_45 (75) av	80
L_45 (85) av	164

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:

```