

Low Voltage Track System Module ML26-RT55-10W-940-20-40#20



Light Output Ratio:	100.0%	
Luminaire Power:	9.729 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: 2020-05-14

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:

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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
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## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	3075	3204	3366	3506	3455	3395	3307	3071	0- 10	434.1	434.1	44.9,44.9
20	452.4	417.3	431.0	466.1	593.4	706.8	731.0	537.0	10- 20	424.4	858.5	88.9,88.9
30	53.13	50.51	45.44	45.82	56.15	62.57	55.00	52.46	20- 30	85.06	943.6	97.7,97.7
40	10.28	11.04	11.70	10.87	10.61	11.49	11.82	10.35	30- 40	16.24	959.9	99.3,99.3
50	2.709	2.702	3.026	2.983	2.755	2.913	3.106	2.925	40- 50	4.585	964.4	99.8,99.8
60	0.9108	0.5504	0.6635	0.6791	0.5816	0.6347	0.6380	0.6975	50- 60	1.286	965.7	100,100
70	0.0987	0.0743	0.0986	0.0720	0.0634	0.0941	0.0742	0.0897	60- 70	0.3555	966.1	100,100
80	0.0460	0.0328	0.0459	0.0350	0.0263	0.0394	0.0262	0.0372	70- 80	0.0541	966.1	100,100
90	0.0350	0.0328	0.0350	0.0350	0.0263	0.0262	0.0262	0.0262	80- 90	0.0350	966.2	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): 962.79 lm

%lum = 99.7%

%lamp = 99.7%

Conical surface Flux(120deg): 965.72 lm

%lum = 100.0%

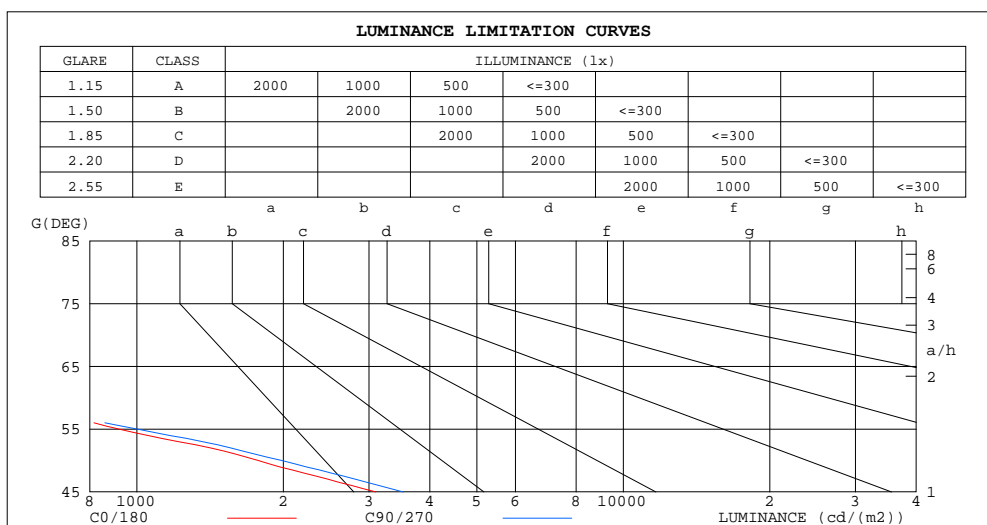
%lamp = 100.0%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-05-14

$\gamma$  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:0.2027A P:9.729W PF:1.000 Freq:0Hz Lamp Flux:966.168x1 lm		
NAME: ML26-RT55-10W-940-20-40#20	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: $\phi 55\text{mm} \times \text{H}150\text{mm}$	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	200	190
80	111	111
75	107	96
70	121	121
65	481	358
60	766	559
55	918	1001
50	1773	1982
45	3099	3525

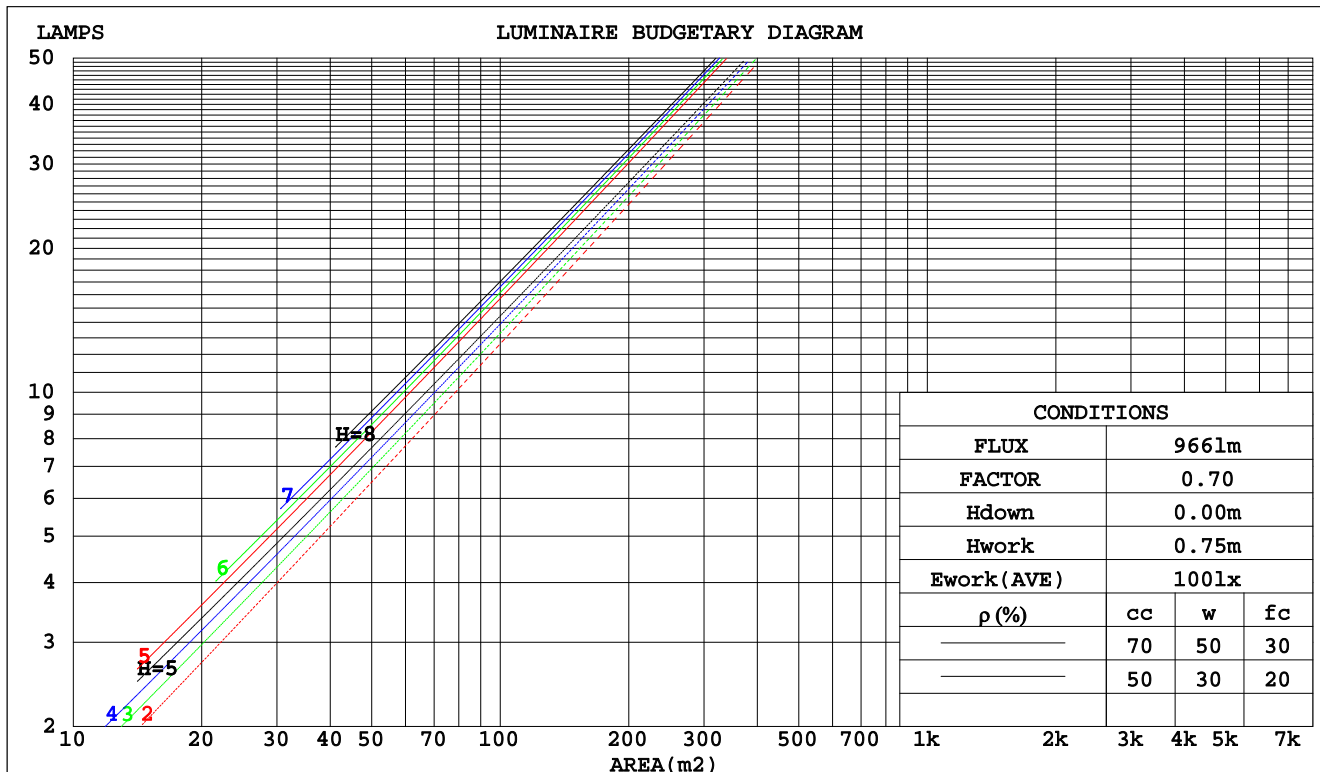
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:48.00V I:0.2027A P:9.729W PF:1.000 Freq:0Hz Lamp Flux:966.168x1 lm		
NAME: ML26-RT55-10W-940-20-40#20	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: $\phi 55\text{mm} \times \text{H}150\text{mm}$	
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	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	1.13	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	1.00	1.01	.00	.98	.99	.97	.96	.95
3.0	1.05	1.01	.99	1.03	1.00	.98	1.01	.99	.97	.99	.97	.95	.97	.95	.94	.92
4.0	1.01	.98	.95	1.00	.97	.94	.98	.96	.93	.96	.94	.92	.95	.93	.91	.90
5.0	.98	.94	.92	.97	.94	.91	.96	.93	.91	.94	.92	.90	.93	.91	.89	.88
6.0	.95	.92	.89	.95	.91	.89	.93	.90	.88	.92	.90	.88	.91	.89	.87	.86
7.0	.93	.89	.87	.92	.89	.86	.91	.88	.86	.90	.88	.86	.89	.87	.85	.84
8.0	.91	.87	.84	.90	.87	.84	.89	.86	.84	.88	.86	.84	.88	.85	.83	.82
9.0	.88	.85	.82	.88	.85	.82	.87	.84	.82	.87	.84	.82	.86	.83	.82	.81
10.0	.86	.83	.81	.86	.83	.80	.85	.82	.80	.85	.82	.80	.84	.82	.80	.79



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Remarks:

## WEC AND CCEC

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NAME: ML26-RT55-10W-940-20-40#20	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: $\phi$ 55mm*H150mm	
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	.127	.072	.023	.120	.068	.022	.108	.062	.020	.096	.056	.018	.086	.050	.016		
2.0	.116	.064	.020	.111	.061	.019	.101	.056	.017	.091	.051	.016	.083	.047	.015		
3.0	.107	.057	.017	.103	.055	.017	.095	.051	.016	.087	.048	.015	.080	.044	.014		
4.0	.100	.052	.015	.096	.050	.015	.089	.047	.014	.083	.044	.013	.077	.042	.013		
5.0	.094	.048	.014	.091	.047	.014	.085	.044	.013	.079	.042	.012	.074	.040	.012		
6.0	.088	.044	.013	.086	.043	.012	.081	.041	.012	.076	.039	.012	.071	.038	.011		
7.0	.084	.041	.012	.081	.041	.012	.077	.039	.011	.073	.037	.011	.069	.036	.011		
8.0	.079	.039	.011	.077	.038	.011	.074	.037	.011	.070	.035	.010	.067	.034	.010		
9.0	.076	.037	.010	.074	.036	.010	.071	.035	.010	.067	.034	.010	.064	.033	.009		
10.0	.072	.035	.010	.071	.034	.010	.068	.033	.009	.065	.032	.009	.062	.031	.009		

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	.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	.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	.040	.030	.032	.024	.018	.010	.008	.006	
8.0	.085	.060	.042	.073	.052	.037	.051	.036	.026	.030	.021	.016	.010	.007	.005	
9.0	.079	.054	.037	.068	.047	.032	.047	.033	.023	.028	.019	.014	.009	.006	.005	
10.0	.074	.049	.032	.064	.043	.028	.044	.030	.020	.026	.018	.012	.008	.006	.004	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
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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:0.2027A P:9.729W PF:1.000 Freq:0Hz Lamp Flux:966.168x1 lm										
NAME: ML26-RT55-10W-940-20-40#20					TYPE:Low Voltage Track System Module					
SPEC.:4000K					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	4.0	4.5	4.2	4.7	4.8	4.2	4.8	4.4	4.9	5.1
3H	3.8	4.4	4.1	4.6	4.7	4.1	4.6	4.3	4.8	5.0
4H	3.8	4.3	4.0	4.5	4.7	4.0	4.5	4.3	4.7	4.9
6H	3.7	4.2	4.0	4.4	4.6	3.9	4.4	4.2	4.7	4.9
8H	3.6	4.1	3.9	4.4	4.6	3.9	4.4	4.2	4.6	4.9
12H	3.6	4.1	3.9	4.3	4.6	3.9	4.3	4.2	4.6	4.8
4H 2H	3.8	4.3	4.0	4.5	4.7	4.0	4.5	4.3	4.7	5.0
3H	3.6	4.1	3.9	4.3	4.6	3.9	4.3	4.2	4.6	4.8
4H	3.5	3.9	3.9	4.2	4.5	3.8	4.2	4.1	4.5	4.8
6H	3.4	3.8	3.8	4.1	4.5	3.7	4.0	4.0	4.4	4.7
8H	3.4	3.7	3.8	4.1	4.4	3.6	4.0	4.0	4.3	4.7
12H	3.3	3.6	3.7	4.0	4.4	3.6	3.9	4.0	4.3	4.6
8H 4H	3.4	3.7	3.7	4.1	4.4	3.6	4.0	4.0	4.3	4.7
6H	3.3	3.5	3.7	3.9	4.3	3.5	3.8	3.9	4.2	4.6
8H	3.2	3.5	3.6	3.9	4.3	3.4	3.7	3.9	4.1	4.6
12H	3.1	3.4	3.6	3.8	4.3	3.4	3.6	3.8	4.0	4.5
12H 4H	3.3	3.6	3.7	4.0	4.4	3.6	3.9	4.0	4.2	4.6
6H	3.2	3.5	3.6	3.9	4.3	3.4	3.7	3.9	4.1	4.6
8H	3.1	3.4	3.6	3.8	4.3	3.4	3.6	3.8	4.0	4.5
Variations with the observer position at spacings:										
S = 1.0H	+ 3.2 / - 9.6					+ 3.1 / - 9.8				
1.5H	+ 4.9 / - 7.2					+ 4.8 / - 7.7				
2.0H	+ 5.4 / - 6.9					+ 5.6 / - 7.2				

CIE Pub.117, 966.2 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -0.1$ )

C Range: 0 - 360DEG  
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Temperature:25.3DEG  
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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:0.2027A P:9.729W PF:1.000 Freq:0Hz Lamp Flux:966.168x1 lm		
NAME: ML26-RT55-10W-940-20-40#20	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: $\varnothing 55\text{mm} \times H150\text{mm}$	
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	90	96	92	89	86
1.00	102	97	94	101	96	93	100	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	109	105	103	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		

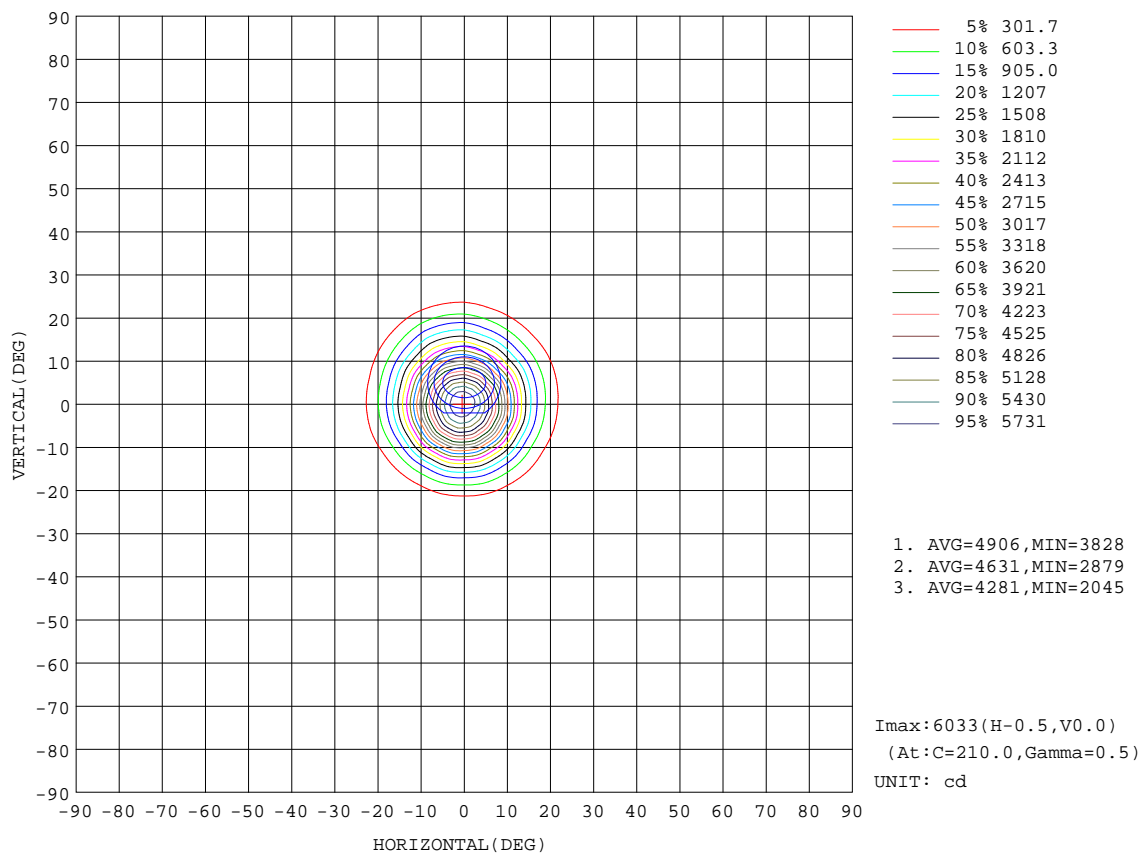
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ISOCANDELA DIAGRAM

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SPEC.:4000K	DIM.: $\phi$ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		



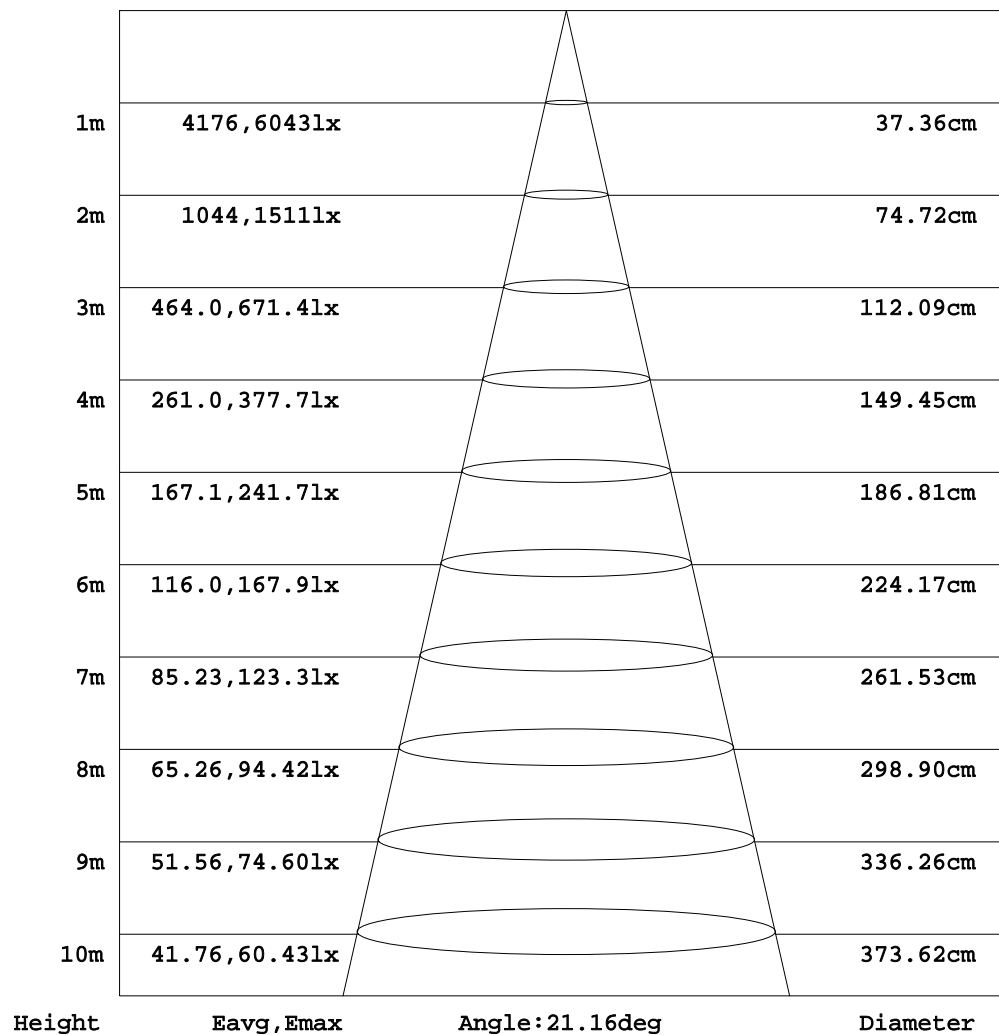
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**AAI Figure**

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NAME: ML26-RT55-10W-940-20-40#20	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: $\phi$ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

Flux out:495.7 lm



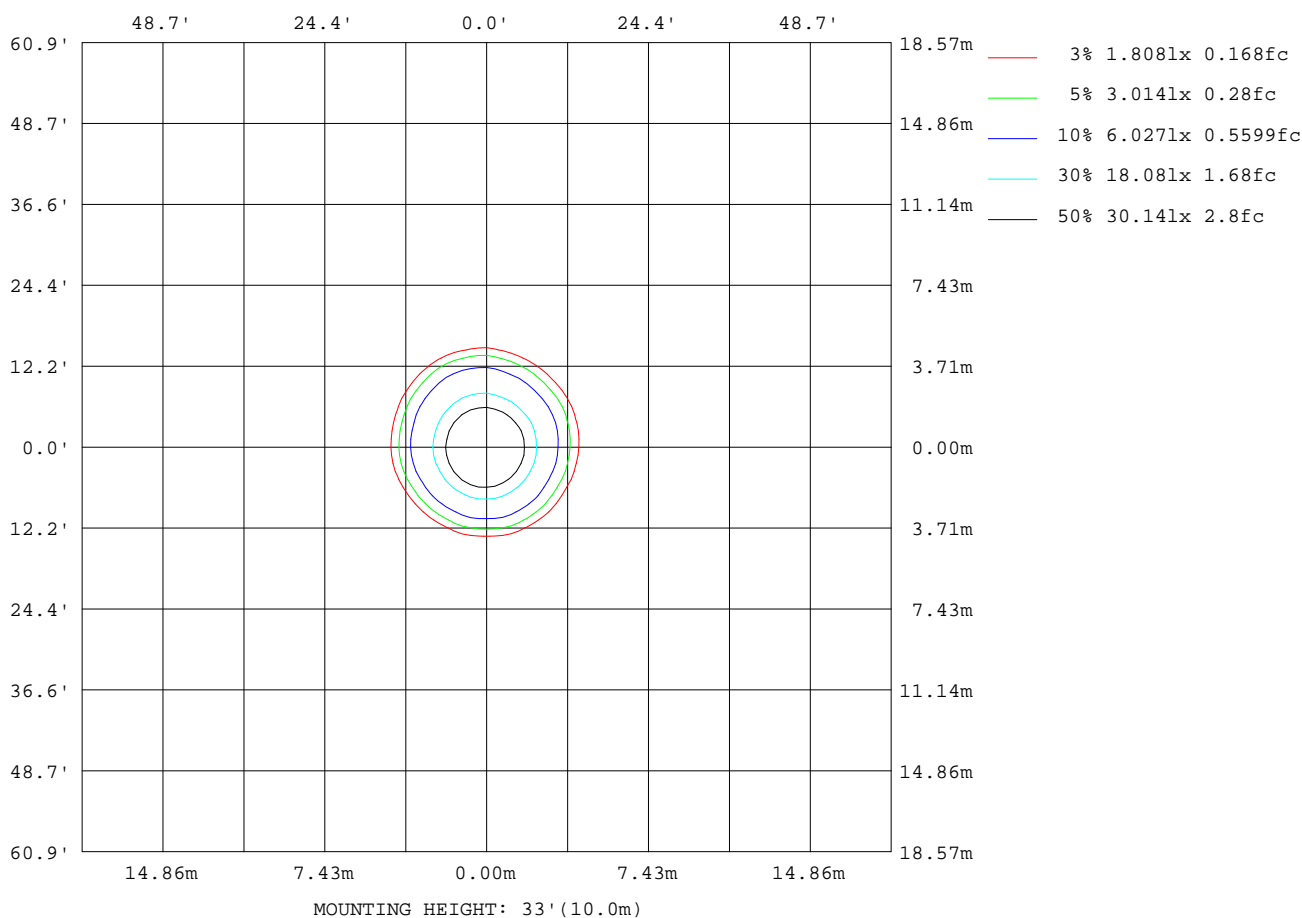
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

Test:U:48.00V I:0.2027A P:9.729W PF:1.000 Freq:0Hz Lamp Flux:966.168x1 lm		
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SPEC.:4000K	DIM.: $\phi$ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		



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### LED Avg.L Report

Test:U:48.00V I:0.2027A P:9.729W PF:1.000 Freq:0Hz Lamp Flux:966.168x1 lm		
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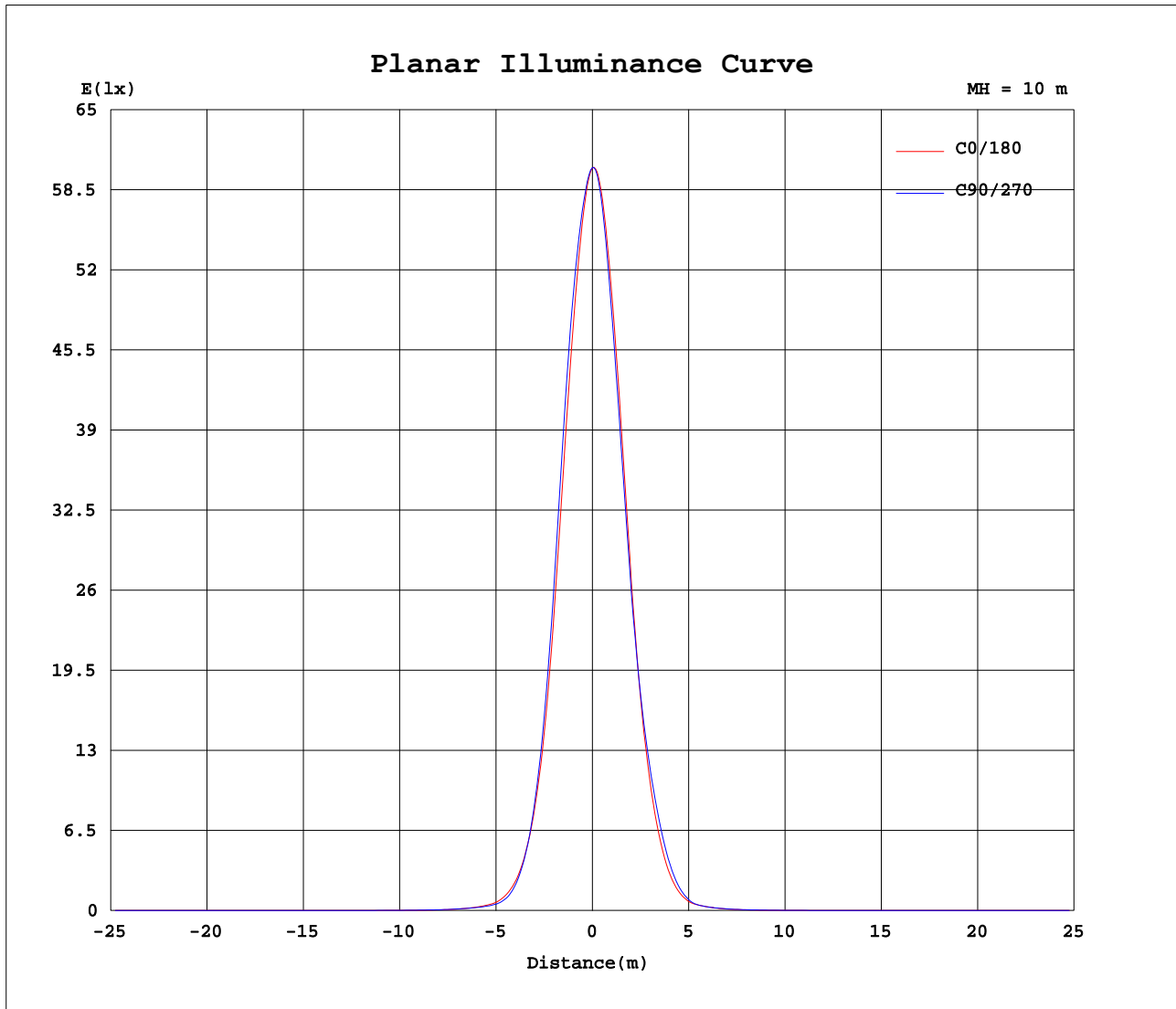
AvgL	cd/m2
L_0~180 (65) av	395
L_0~180 (75) av	80
L_0~180 (85) av	164
L_90~270 (65) av	373
L_90~270 (75) av	77
L_90~270 (85) av	159
L_45 (65) av	356
L_45 (75) av	76
L_45 (85) av	151

Standard: GB/T 29293-2012

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### Planar Illuminance Curve



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Test Date: 2020-05-14

$\gamma$  Range: 0 - 90DEG  
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Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
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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]
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