

Low Voltage Track System Module ML26-RT55-10W-940-35-60#35



Light Output Ratio:	100.0%	
Luminaire Power:	9.711 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-05-13

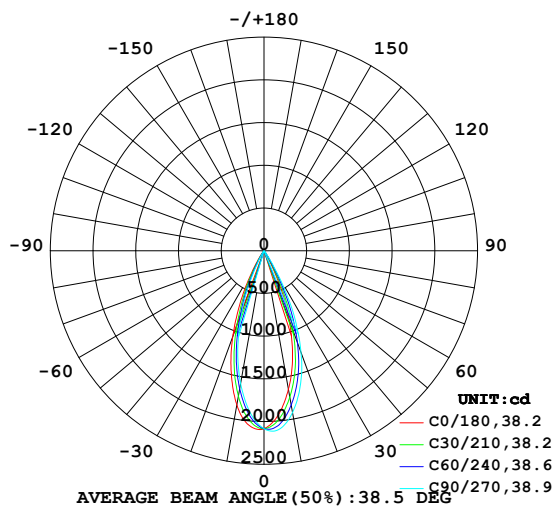
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

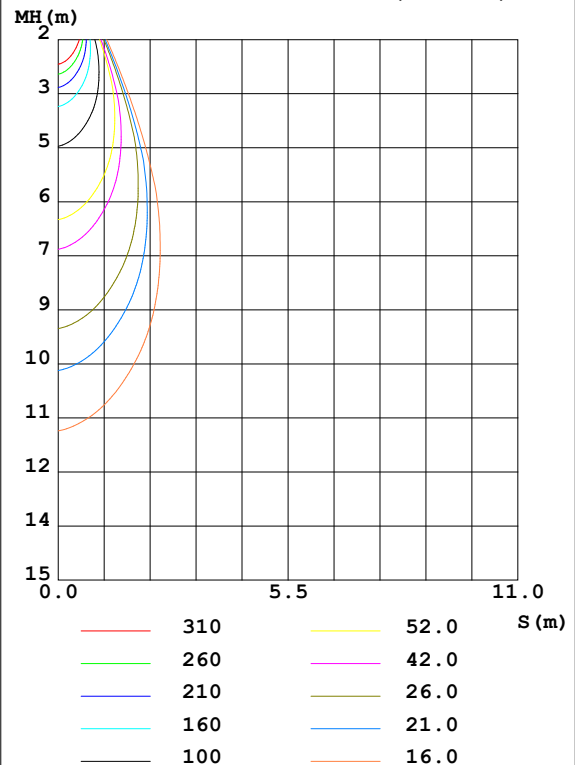
Test:U:48.00V I:0.2023A P:9.711W PF:1.000 Freq:0Hz Lamp Flux:870.822x1 lm		
NAME: ML26-RT55-10W-940-35-60#35	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: ϕ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.67 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	2132	S/MH (C0/180)	0.64
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.55
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	870.82	η UP,DN (C0-180)	0.0,57.4
NOMINAL FLUX (lm)	870.822	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,42.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	48	η down (%)	100.0	CIBSE SHR MAX	0.65

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
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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	1648	1796	1923	1972	1833	1673	1579	1551	0- 10	182.3	182.3	20.9,20.9
20	863.9	1082	1270	1283	1070	860.9	752.4	728.6	10- 20	382.2	564.5	64.8,64.8
30	103.5	201.5	352.7	403.9	262.8	156.3	90.17	68.59	20- 30	251.3	815.8	93.7,93.7
40	18.38	23.66	28.84	29.20	19.33	13.92	12.48	12.44	30- 40	44.04	859.8	98.7,98.7
50	3.341	5.562	6.370	6.573	5.057	3.550	2.695	2.622	40- 50	7.949	867.8	99.7,99.7
60	1.107	1.427	1.584	1.732	1.390	1.105	0.9783	0.9136	50- 60	2.087	869.9	99.9,99.9
70	0.1773	0.2511	0.4317	0.5831	0.3664	0.2496	0.1528	0.1489	60- 70	0.7203	870.6	100,100
80	0.0722	0.0743	0.1335	0.1290	0.0960	0.0897	0.0502	0.0634	70- 80	0.1670	870.8	100,100
90	0.0415	0.0394	0.0437	0.0482	0.0372	0.0306	0.0262	0.0263	80- 90	0.0602	870.8	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): 865.03 lm

%lum = 99.3%

%lamp = 99.3%

Conical surface Flux(120deg): 869.87 lm

%lum = 99.9%

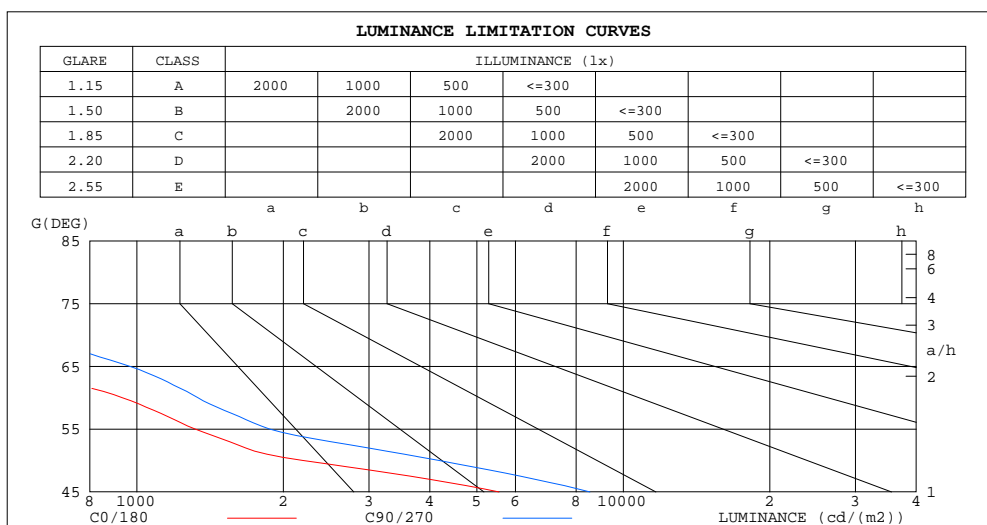
%lamp = 99.9%

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Remarks:

LUMINANCE LIMITATION CURVES

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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	254	391
80	175	324
75	185	346
70	218	532
65	446	967
60	933	1334
55	1318	1875
50	2190	4174
45	5550	8536

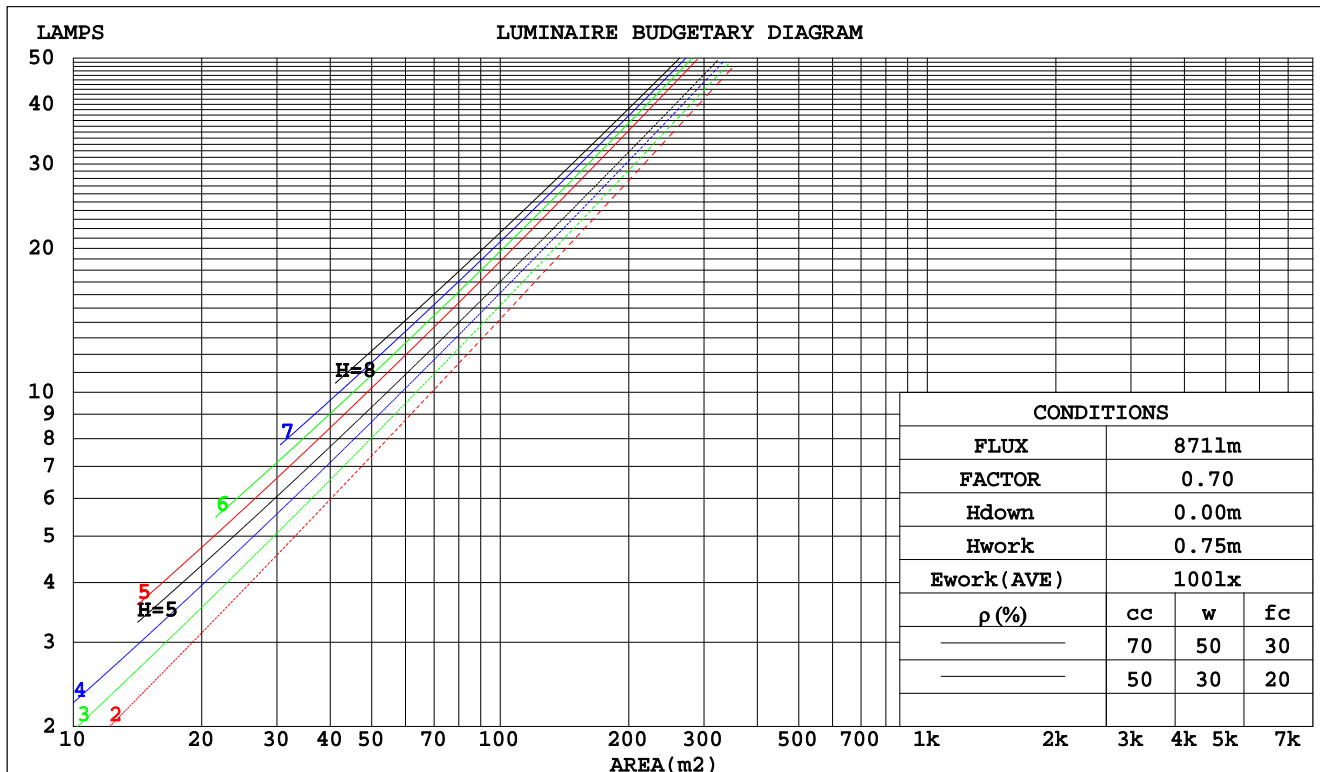
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	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	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.04	1.02	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.99	.96	.93	.97	.94	.91	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.86	.83	.89	.85	.82	.88	.84	.82	.86	.83	.81	.80
6.0	.88	.83	.79	.87	.82	.79	.86	.82	.79	.84	.81	.78	.83	.80	.78	.77
7.0	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.75	.73
8.0	.81	.76	.73	.80	.76	.72	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
9.0	.78	.73	.70	.77	.73	.69	.76	.72	.69	.75	.72	.69	.75	.71	.69	.68
10.0	.75	.70	.67	.74	.70	.67	.73	.69	.67	.73	.69	.66	.72	.69	.66	.65



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WEC AND CCEC

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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	.150	.085	.027	.143	.082	.026	.131	.075	.024	.120	.069	.022	.109	.063	.020		
2.0	.141	.077	.024	.135	.074	.023	.125	.069	.022	.115	.065	.020	.107	.060	.019		
3.0	.132	.070	.021	.128	.068	.021	.119	.065	.020	.111	.061	.019	.104	.057	.018		
4.0	.125	.065	.019	.121	.063	.019	.114	.060	.018	.107	.057	.017	.101	.055	.017		
5.0	.119	.061	.018	.115	.059	.017	.109	.057	.017	.103	.054	.016	.098	.052	.016		
6.0	.113	.057	.016	.110	.056	.016	.105	.054	.016	.100	.052	.015	.095	.050	.015		
7.0	.108	.053	.015	.106	.053	.015	.101	.051	.015	.096	.049	.014	.092	.048	.014		
8.0	.103	.051	.014	.101	.050	.014	.097	.048	.014	.093	.047	.014	.089	.046	.013		
9.0	.099	.048	.013	.097	.047	.013	.094	.046	.013	.090	.045	.013	.087	.044	.013		
10.0	.096	.046	.013	.094	.045	.013	.090	.044	.012	.087	.043	.012	.084	.042	.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	.127	.099	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.046	.041	.017	.015	.013		
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011		
4.0	.126	.098	.077	.108	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009		
5.0	.116	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008		
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006		
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006		
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005		
9.0	.090	.056	.034	.077	.049	.030	.054	.034	.021	.031	.020	.013	.010	.007	.004		
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004		

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γ Range: 0 - 90DEG
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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:0.2023A P:9.711W PF:1.000 Freq:0Hz Lamp Flux:870.822x1 lm										
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SPEC.:4000K					DIM.: \varnothing 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	8.9	9.6	9.1	9.8	9.9	14.0	14.7	14.2	14.9	15.0
3H	8.7	9.4	9.0	9.6	9.8	13.8	14.5	14.1	14.7	14.9
4H	8.6	9.3	8.9	9.5	9.7	13.8	14.4	14.0	14.6	14.8
6H	8.6	9.2	8.8	9.4	9.7	13.7	14.3	14.0	14.5	14.8
8H	8.5	9.1	8.8	9.4	9.6	13.6	14.2	13.9	14.5	14.7
12H	8.5	9.0	8.8	9.3	9.6	13.6	14.2	13.9	14.4	14.7
4H 2H	8.7	9.3	8.9	9.5	9.8	13.8	14.4	14.0	14.6	14.8
3H	8.5	9.1	8.8	9.3	9.6	13.6	14.2	13.9	14.4	14.7
4H	8.4	8.9	8.8	9.2	9.5	13.5	14.0	13.8	14.3	14.6
6H	8.3	8.8	8.7	9.1	9.5	13.4	13.9	13.8	14.2	14.5
8H	8.3	8.7	8.7	9.0	9.4	13.3	13.8	13.7	14.1	14.5
12H	8.2	8.6	8.6	9.0	9.4	13.3	13.7	13.7	14.1	14.4
8H 4H	8.3	8.7	8.7	9.0	9.4	13.3	13.8	13.7	14.1	14.5
6H	8.2	8.5	8.6	8.9	9.3	13.2	13.6	13.7	14.0	14.4
8H	8.1	8.4	8.5	8.8	9.3	13.2	13.5	13.6	13.9	14.3
12H	8.0	8.3	8.5	8.8	9.2	13.1	13.4	13.6	13.8	14.3
12H 4H	8.2	8.6	8.6	9.0	9.4	13.3	13.7	13.7	14.1	14.4
6H	8.1	8.4	8.5	8.8	9.3	13.2	13.5	13.6	13.9	14.3
8H	8.0	8.3	8.5	8.8	9.2	13.1	13.4	13.6	13.8	14.3
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / - 9.1					+ 3.9 / - 9.6				
1.5H	+ 4.0 / - 7.3					+ 5.8 / - 8.6				
2.0H	+ 5.8 / - 5.4					+ 6.2 / - 5.7				

CIE Pub.117, 870.8 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.5$)

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Remarks:

UTILIZATION FACTORS TABLE

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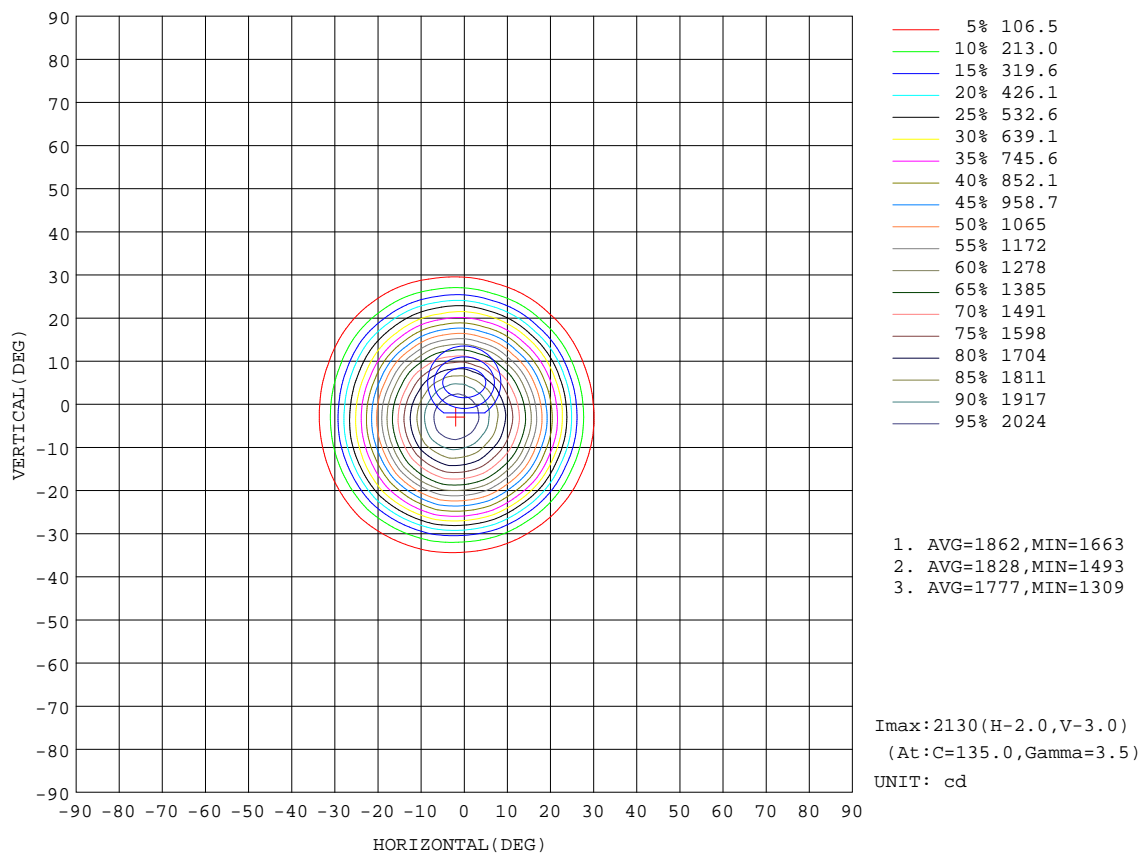
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	81	78
0.80	98	93	89	97	92	89	96	92	89	85
1.00	102	97	93	101	96	93	99	96	92	89
1.25	105	100	97	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	105	104	98
4.00	114	112	110	112	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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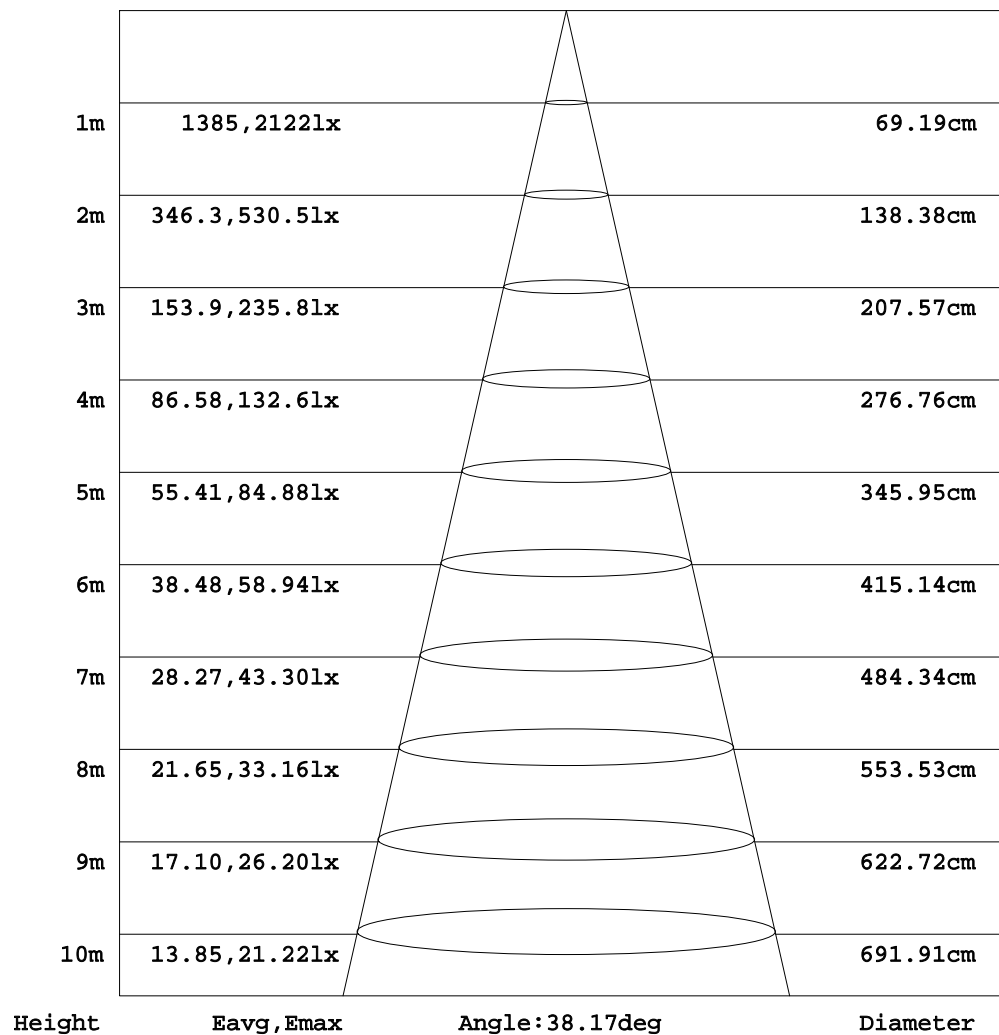
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AAI Figure

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Flux out:545.8 lm



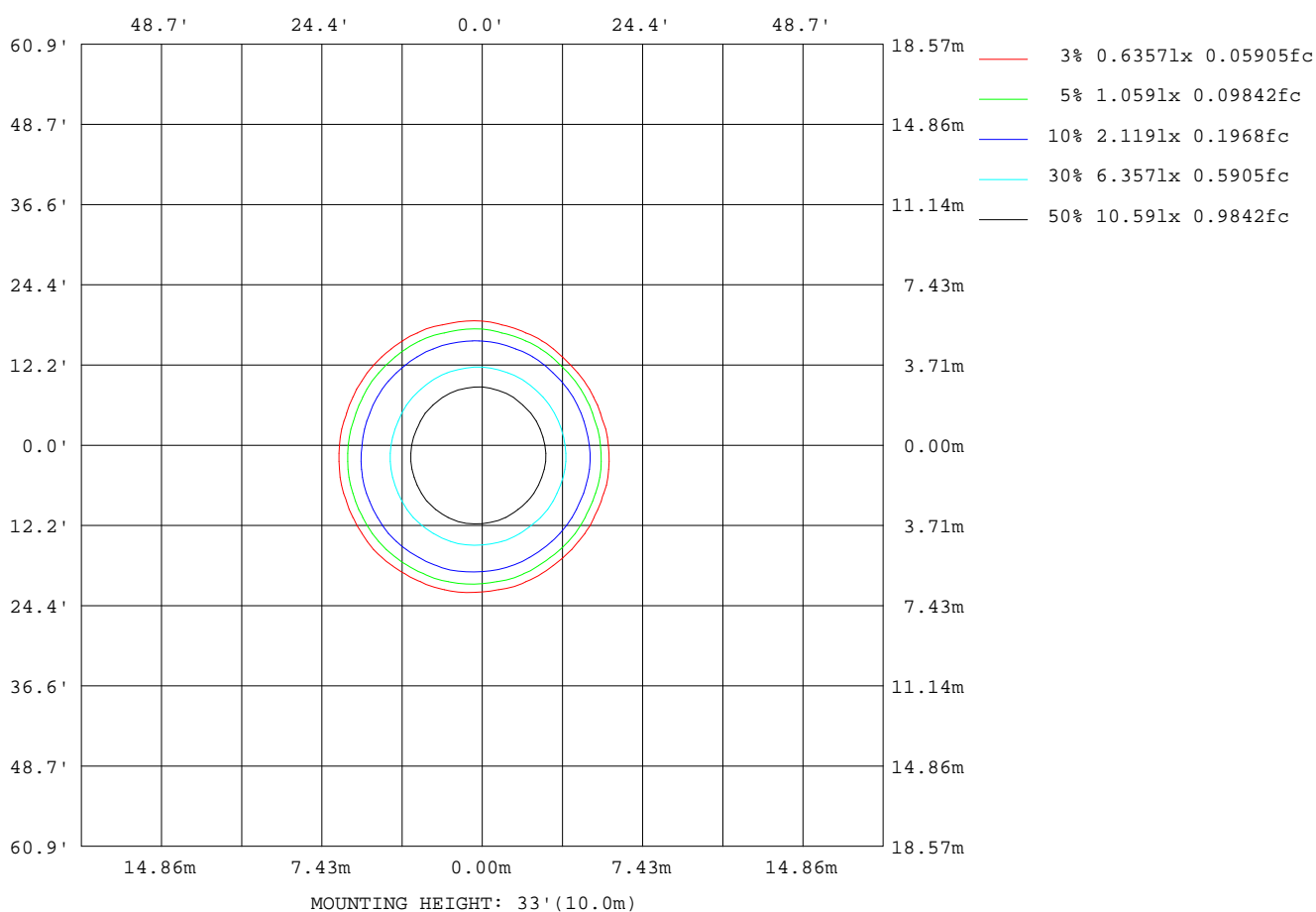
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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MFR.: NEKO LIGHTING AG		

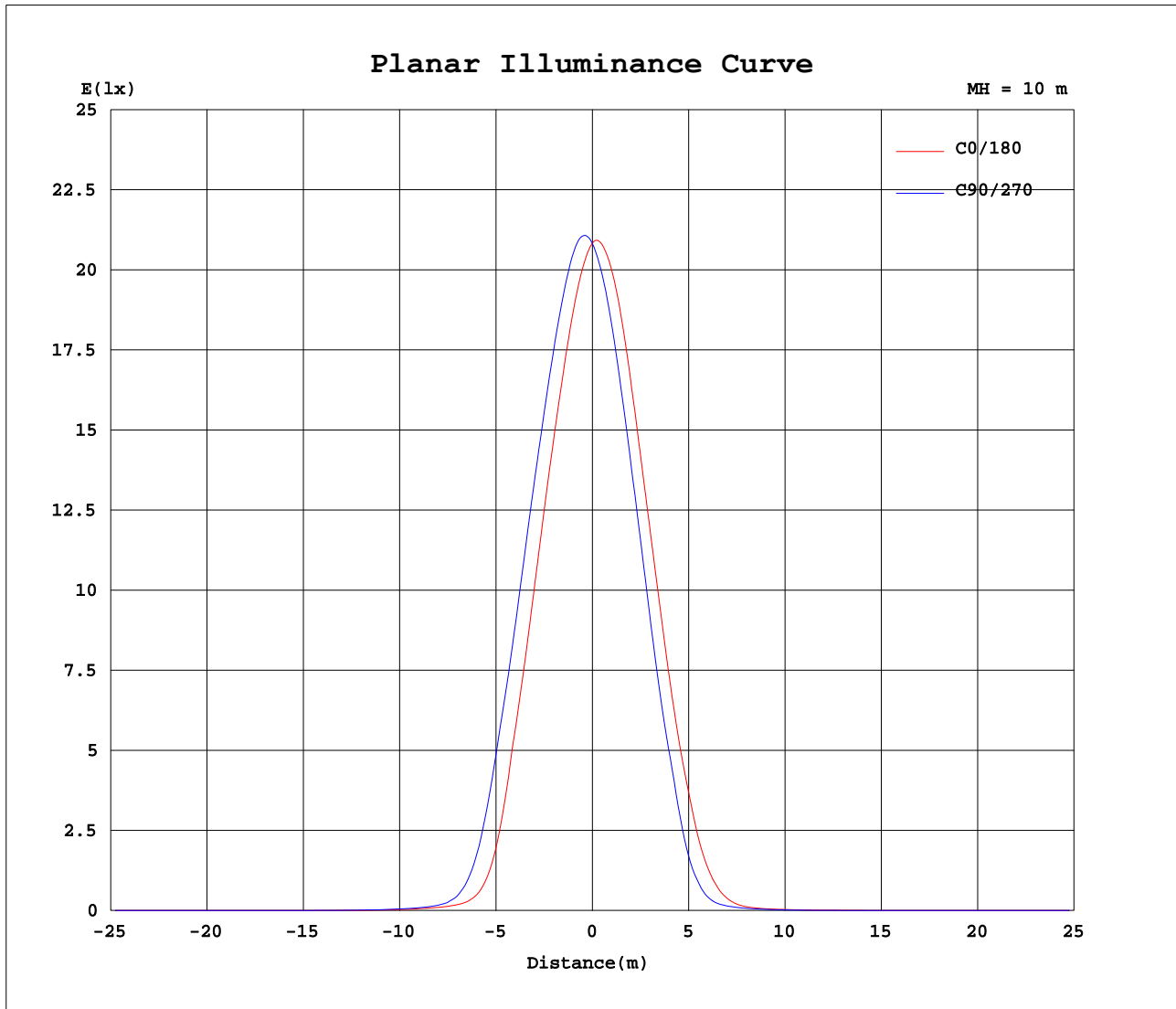
AvgL	cd/m2
L_0~180 (65) av	652
L_0~180 (75) av	224
L_0~180 (85) av	248
L_90~270 (65) av	744
L_90~270 (75) av	247
L_90~270 (85) av	275
L_45 (65) av	727
L_45 (75) av	237
L_45 (85) av	243

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-13

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



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