

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



Light Output Ratio:	100.0%	
Luminaire Power:	9.931 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

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

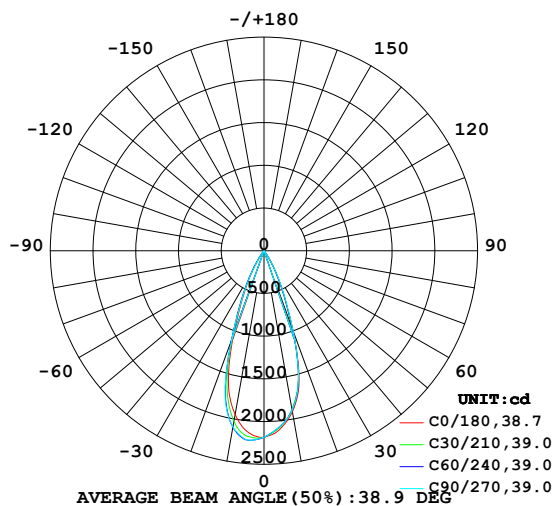
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

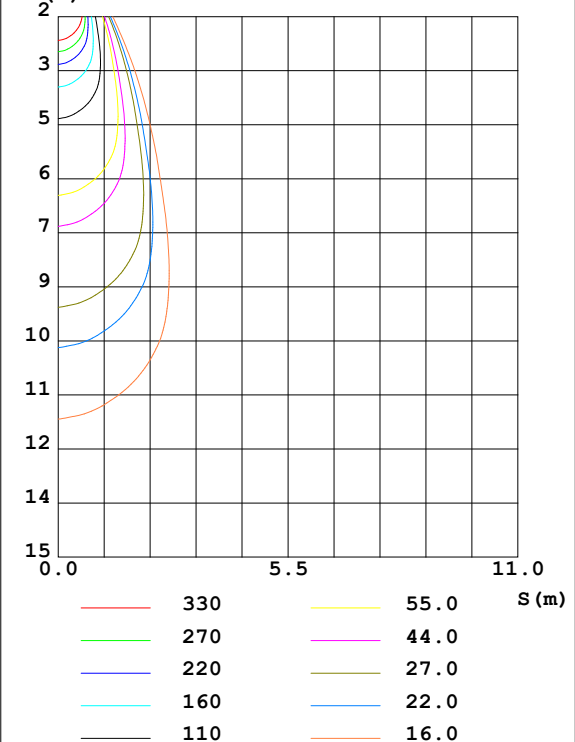
Test:U:48.00V I:0.2069A P:9.931W PF:1.000 Freq:0Hz Lamp Flux:944.875x1 lm		
NAME: ML26-RT55-10W-940-20-40#40	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: ϕ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.15 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	2229	S/MH (C0/180)	0.61
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.62
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	944.87	η UP,DN (C0-180)	0.0,48.4
NOMINAL FLUX (lm)	944.875	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,51.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	48	η down (%)	100.0	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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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	1915	1889	1896	1897	1946	2061	2096	1994	0- 10	198.1	198.1	21,21
20	989.1	996.5	992.8	1018	1033	1098	1109	1014	10- 20	432.8	630.9	66.8,66.8
30	218.0	229.3	242.3	249.2	267.0	289.4	276.3	221.5	20- 30	255.3	886.2	93.8,93.8
40	11.73	11.56	8.730	12.11	16.95	15.68	9.182	10.08	30- 40	53.89	940.1	99.5,99.5
50	1.637	1.694	1.782	1.565	1.470	1.564	1.928	1.687	40- 50	3.773	943.8	99.9,99.9
60	0.5319	0.4844	0.5631	0.5326	0.4275	0.4728	0.5521	0.5888	50- 60	0.7887	944.6	100,100
70	0.0657	0.0393	0.0656	0.0393	0.0349	0.0634	0.0393	0.0635	60- 70	0.1725	944.8	100,100
80	0.0415	0.0372	0.0372	0.0372	0.0262	0.0328	0.0219	0.0350	70- 80	0.0418	944.8	100,100
90	0.0394	0.0393	0.0372	0.0372	0.0262	0.0262	0.0219	0.0262	80- 90	0.0358	944.9	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): 942.75 lm

%lum = 99.8%

%lamp = 99.8%

Conical surface Flux(120deg): 944.62 lm

%lum = 100.0%

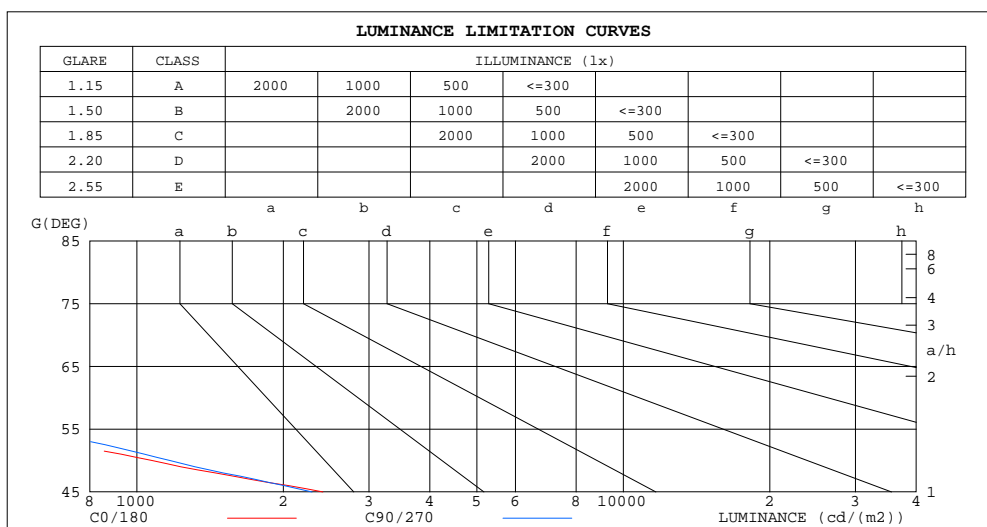
%lamp = 100.0%

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Humidity:58%
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Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:4000K	DIM.: ϕ 55mm*H150mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	190	180
80	101	90
75	78	71
70	81	81
65	118	132
60	448	474
55	567	633
50	1072	1167
45	2411	2292

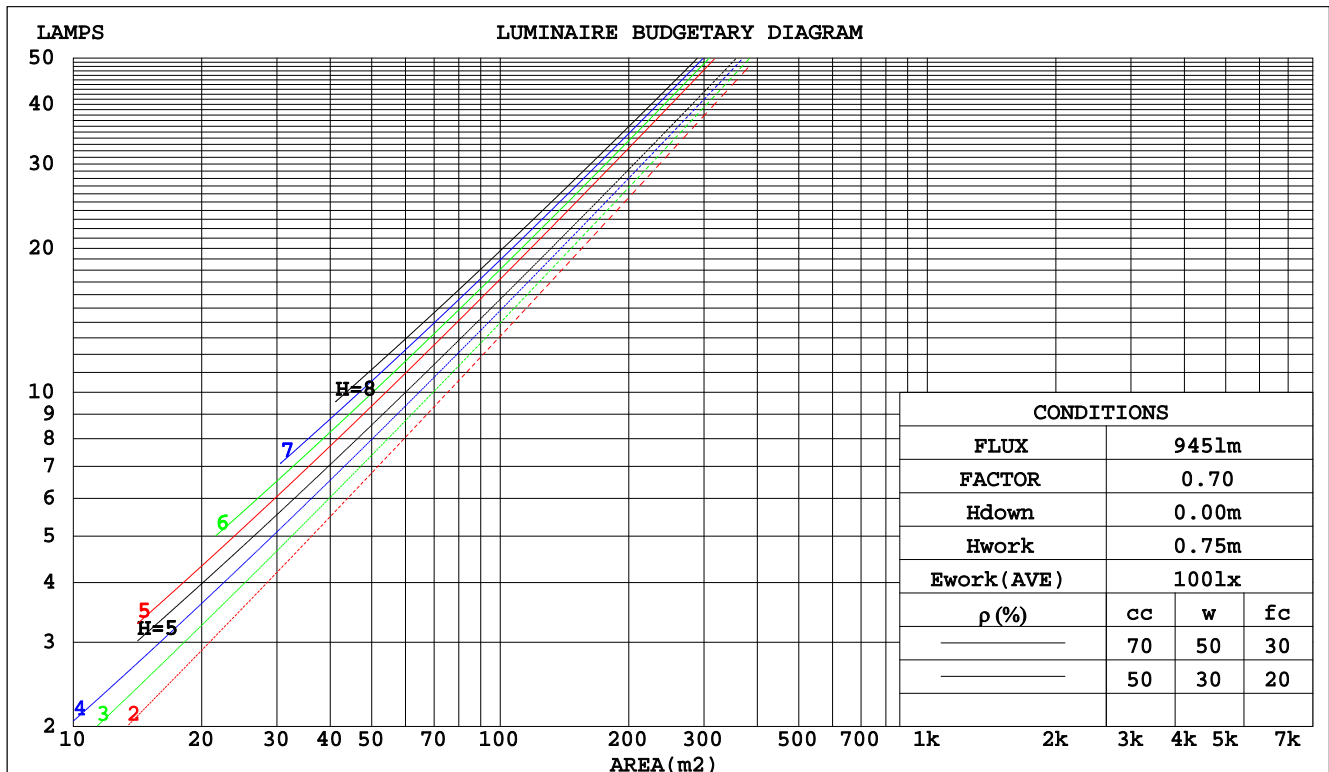
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.12	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	1.05	1.02	.99	1.02	.99	.97	.99	.97	.95	.96	.94	.93	.92
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.88
4.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.91	.88	.86	.90	.87	.85	.84
5.0	.92	.87	.84	.91	.87	.84	.89	.86	.83	.88	.85	.82	.86	.84	.82	.80
6.0	.88	.83	.80	.87	.83	.80	.86	.82	.79	.85	.81	.79	.83	.81	.78	.77
7.0	.84	.80	.76	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.77	.75	.74
8.0	.81	.76	.73	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.71
9.0	.78	.73	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.69	.68
10.0	.75	.70	.67	.75	.70	.67	.74	.70	.67	.73	.70	.67	.73	.69	.67	.66



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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	.149	.085	.027	.142	.081	.026	.130	.074	.024	.118	.068	.022	.108	.062	.020		
2.0	.139	.076	.023	.134	.074	.023	.123	.069	.021	.114	.064	.020	.105	.059	.019		
3.0	.131	.070	.021	.126	.068	.020	.118	.064	.019	.110	.060	.018	.102	.057	.018		
4.0	.124	.064	.019	.120	.063	.019	.113	.060	.018	.106	.057	.017	.099	.054	.016		
5.0	.117	.060	.017	.114	.059	.017	.108	.056	.017	.102	.054	.016	.096	.052	.015		
6.0	.112	.056	.016	.109	.055	.016	.103	.053	.015	.098	.051	.015	.094	.049	.015		
7.0	.107	.053	.015	.104	.052	.015	.100	.050	.014	.095	.049	.014	.091	.047	.014		
8.0	.102	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013		
9.0	.098	.048	.013	.096	.047	.013	.093	.046	.013	.089	.045	.013	.086	.043	.013		
10.0	.095	.045	.013	.093	.045	.012	.089	.044	.012	.086	.043	.012	.083	.042	.012		

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	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016		
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.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	.074	.059	.047	.043	.035	.028	.014	.011	.009		
5.0	.116	.086	.064	.100	.074	.056	.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	.007		
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006		
8.0	.095	.062	.039	.081	.054	.034	.056	.038	.024	.033	.022	.014	.011	.007	.005		
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004		
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.019	.030	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG
C Interval: 15.0DEG
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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]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.2069A P:9.931W PF:1.000 Freq:0Hz Lamp Flux:944.875x1 lm										
NAME: ML26-RT55-10W-940-20-40#40					TYPE:Low Voltage Track System Module					
SPEC.:4000K					DIM.: ϕ 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	11.3	12.0	11.5	12.1	12.3	12.0	12.7	12.2	12.9	13.0
3H	11.1	11.8	11.3	12.0	12.2	11.8	12.5	12.0	12.7	12.9
4H	11.0	11.7	11.3	11.9	12.1	11.7	12.4	12.0	12.6	12.8
6H	10.9	11.5	11.2	11.8	12.0	11.6	12.3	11.9	12.5	12.7
8H	10.9	11.5	11.2	11.7	12.0	11.6	12.2	11.9	12.4	12.7
12H	10.8	11.4	11.2	11.7	11.9	11.5	12.1	11.9	12.4	12.6
4H 2H	11.0	11.7	11.3	11.9	12.1	11.7	12.4	12.0	12.6	12.8
3H	10.8	11.4	11.2	11.7	11.9	11.5	12.1	11.9	12.4	12.6
4H	10.7	11.3	11.1	11.6	11.9	11.5	12.0	11.8	12.3	12.6
6H	10.6	11.1	11.0	11.4	11.8	11.4	11.8	11.7	12.1	12.5
8H	10.6	11.0	11.0	11.4	11.7	11.3	11.7	11.7	12.1	12.4
12H	10.5	10.9	10.9	11.3	11.7	11.2	11.6	11.7	12.0	12.4
8H 4H	10.6	11.0	11.0	11.4	11.7	11.3	11.7	11.7	12.1	12.4
6H	10.5	10.8	10.9	11.2	11.6	11.2	11.5	11.6	11.9	12.3
8H	10.4	10.7	10.9	11.2	11.6	11.1	11.4	11.6	11.9	12.3
12H	10.4	10.6	10.8	11.1	11.5	11.1	11.3	11.5	11.8	12.2
12H 4H	10.5	10.9	10.9	11.3	11.7	11.2	11.6	11.7	12.0	12.4
6H	10.4	10.7	10.9	11.2	11.6	11.1	11.4	11.6	11.9	12.3
8H	10.4	10.6	10.8	11.1	11.5	11.1	11.3	11.5	11.8	12.2
Variations with the observer position at spacings:										
S = 1.0H	+ 4.8 / -14.0					+ 4.8 / -12.4				
1.5H	+ 7.4 / -11.8					+ 7.3 / -10.3				
2.0H	+ 6.1 / - 8.4					+ 5.8 / - 7.7				

CIE Pub.117, 944.9 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.2$)

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UTILIZATION FACTORS TABLE

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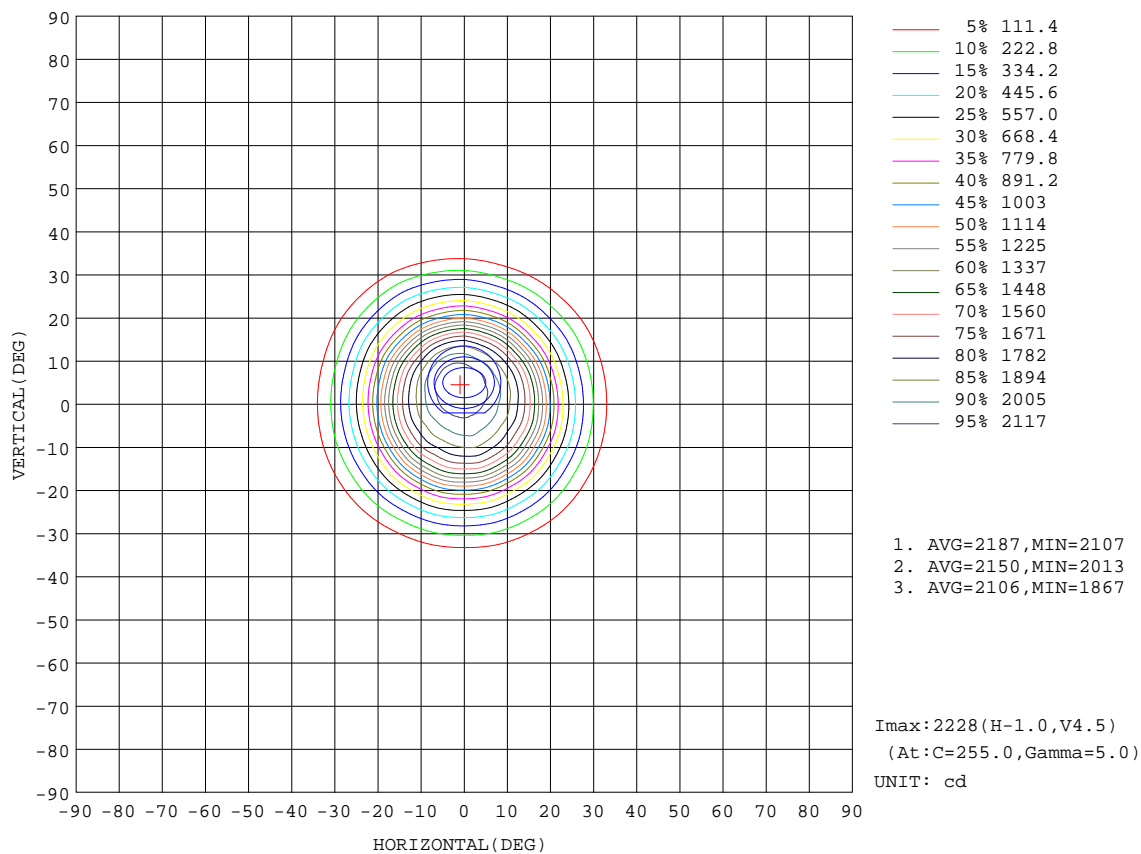
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	86	82	91	85	82	90	85	82	79
0.80	98	93	90	98	93	90	96	92	89	86
1.00	102	97	94	101	96	93	100	96	93	89
1.25	105	101	98	104	100	97	103	99	97	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	103	97
3.00	113	110	107	111	108	106	108	106	104	98
4.00	115	112	110	113	111	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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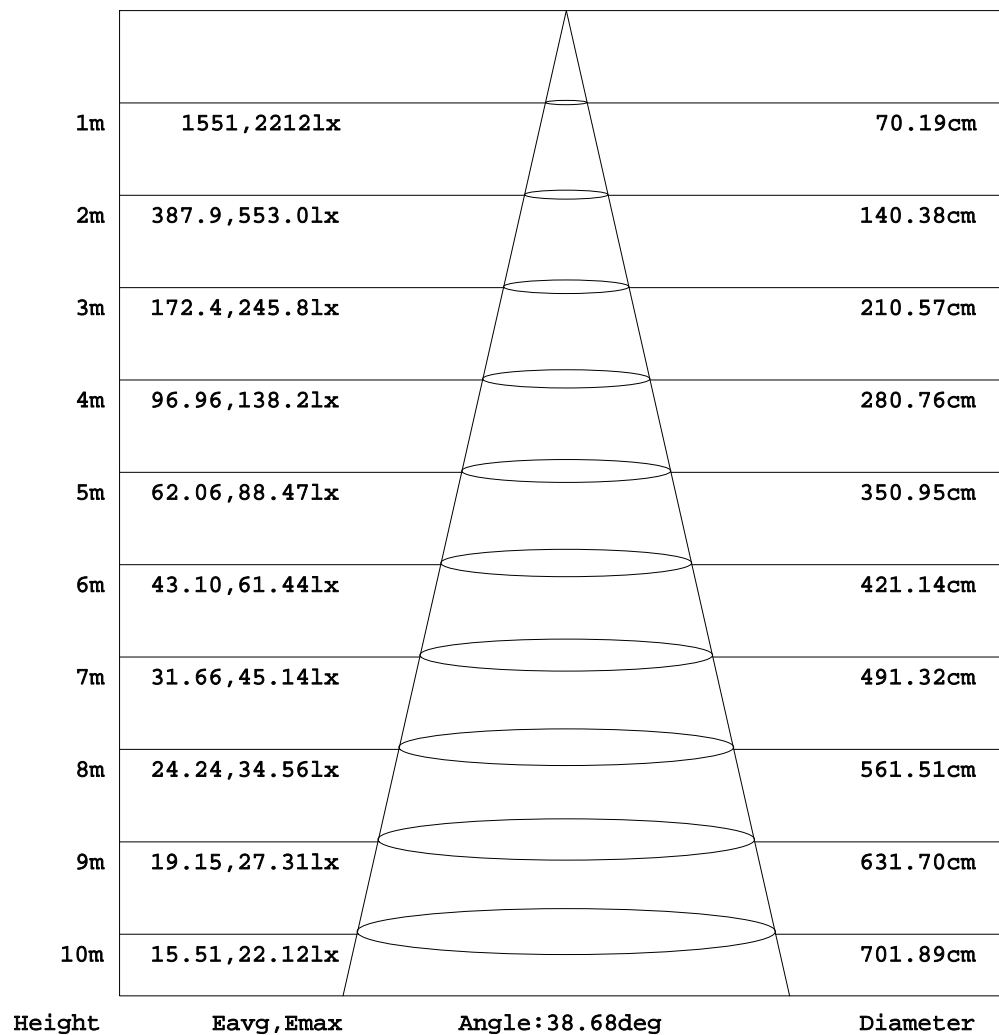
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AAI Figure

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Flux out:611.2 lm



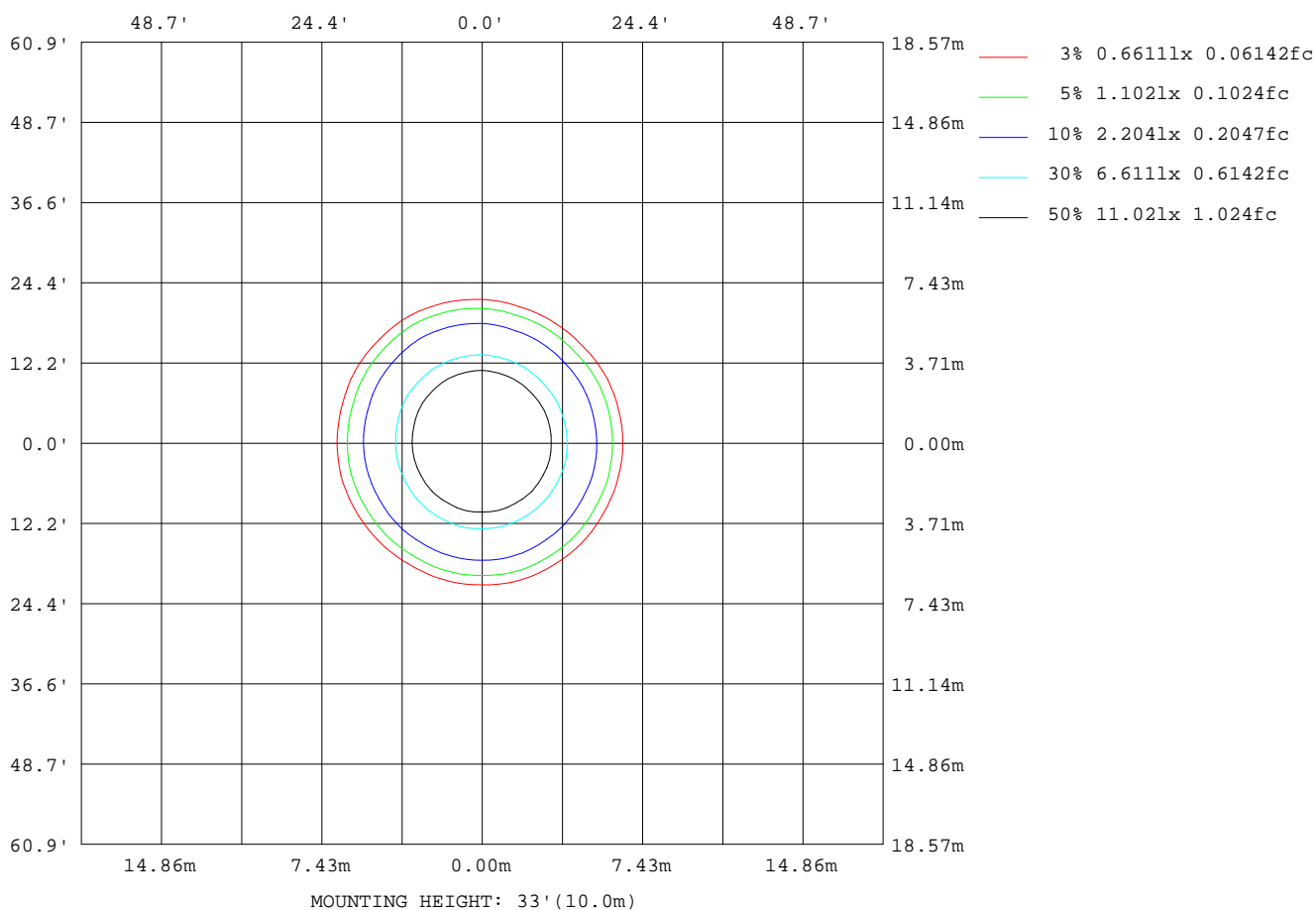
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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MFR.: NEKO LIGHTING AG		

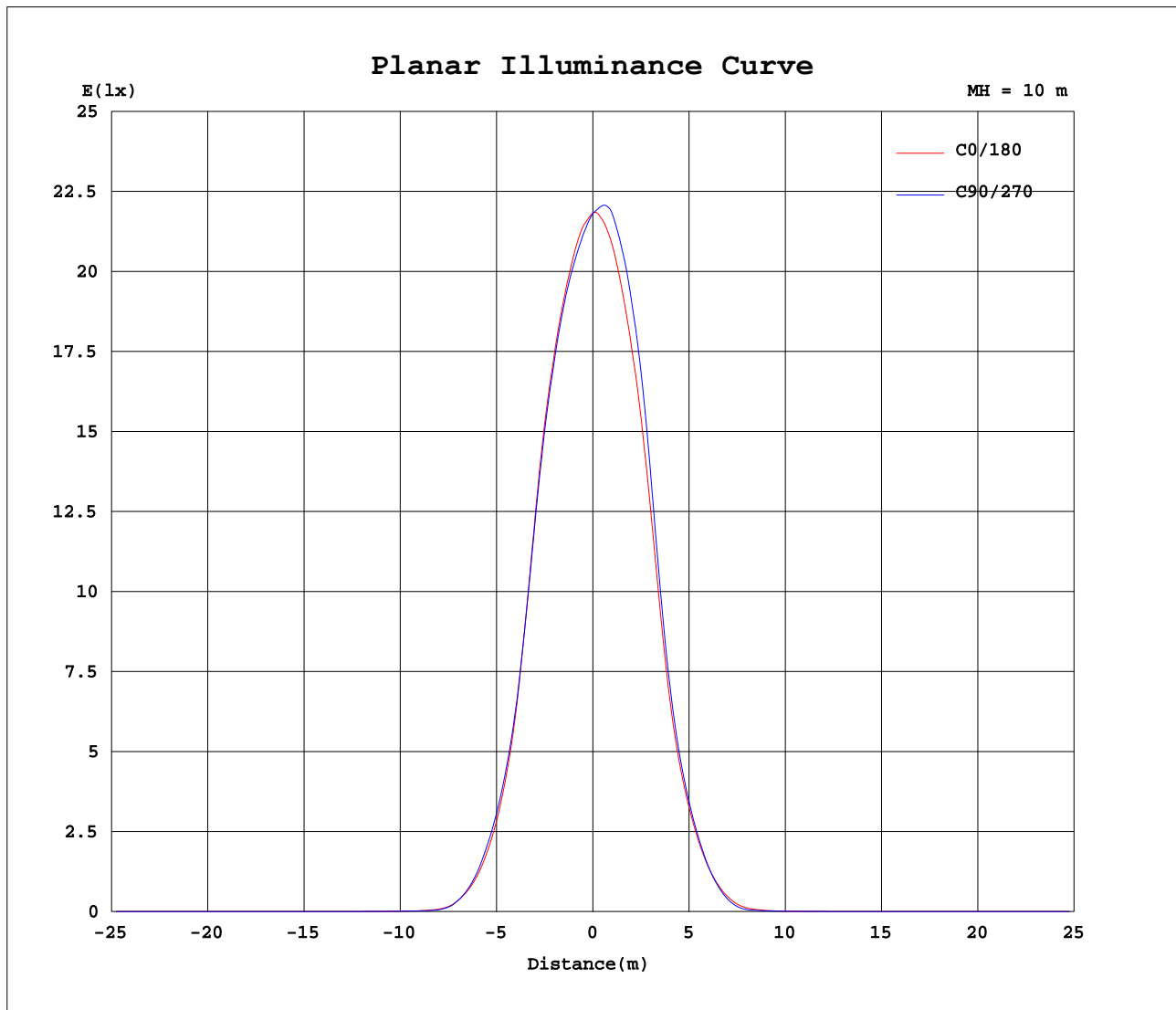
AvgL	cd/m2
L_0~180 (65) av	106
L_0~180 (75) av	66
L_0~180 (85) av	159
L_90~270 (65) av	112
L_90~270 (75) av	59
L_90~270 (85) av	143
L_45 (65) av	109
L_45 (75) av	66
L_45 (85) av	169

Standard: GB/T 29293-2012

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

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:

Planar Illuminance Curve



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

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