

Low Voltage Track System Module ML26-RS40-8W-940-45



Light Output Ratio:	100.0%	
Luminaire Power:	7.983 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: 2020-05-18

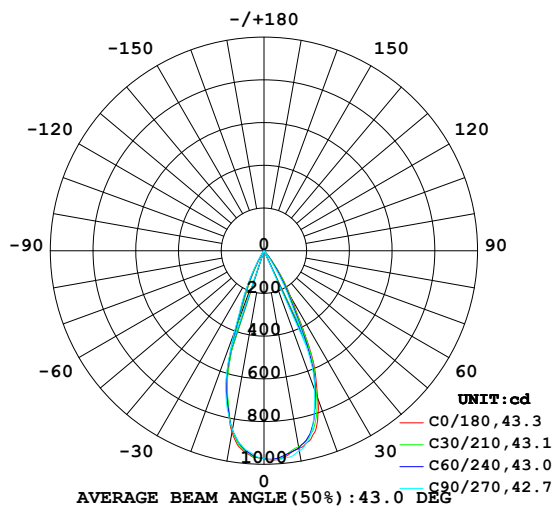
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

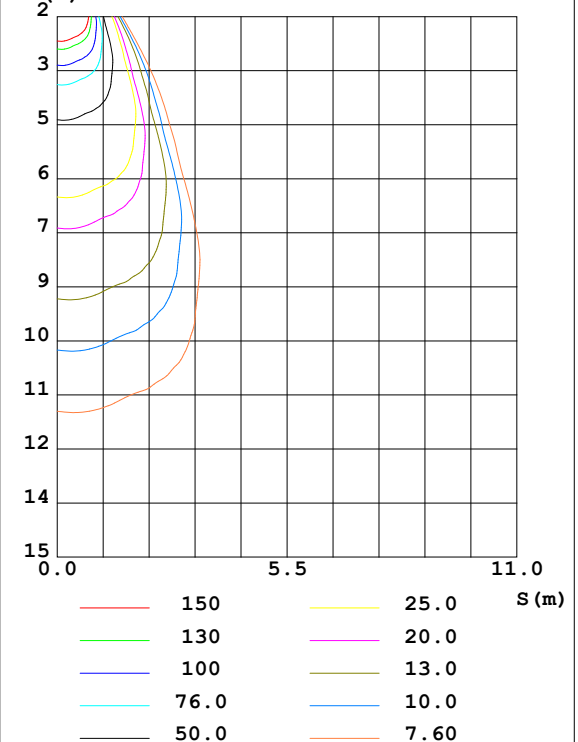
Test:U:48.00V I:0.1663A P:7.983W PF:1.000 Freq:0Hz Lamp Flux:467.545x1 lm		
NAME: ML26-RS40-8W-940-45	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: ϕ 40mm*H70mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 58.56 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	1008	S/MH (C0/180)	0.55
NOMINAL POWER (W)	8	LOR (%)	100.0	S/MH (C90/270)	0.57
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	467.55	η UP,DN (C0-180)	0.0,61.8
NOMINAL FLUX (lm)	467.545	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,38.2
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)



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	938.6	933.6	952.1	962.5	862.3	847.8	850.4	799.8	0- 10	89.13	89.13	19.1,19.1
20	734.9	714.5	694.9	667.0	357.0	366.2	407.6	328.1	10- 20	203.1	292.3	62.5,62.5
30	253.8	233.1	194.0	169.9	39.92	46.65	63.36	54.47	20- 30	137.6	429.9	91.9,91.9
40	31.19	24.99	13.43	11.14	3.251	3.382	3.996	4.305	30- 40	33.13	463.0	99,99
50	3.111	2.863	2.300	2.066	0.6239	0.6669	0.8741	0.9391	40- 50	3.552	466.6	99.8,99.8
60	0.6415	0.5860	0.4143	0.3278	0.0846	0.1065	0.1240	0.1644	50- 60	0.7503	467.3	100,100
70	0.1211	0.0871	0.0836	0.0524	0.0254	0.0383	0.0257	0.0525	60- 70	0.1448	467.5	100,100
80	0.0403	0.0255	0.0365	0.0274	0.0212	0.0234	0.0193	0.0319	70- 80	0.0418	467.5	100,100
90	0.0276	0.0255	0.0278	0.0274	0.0212	0.0213	0.0193	0.0228	80- 90	0.0284	467.5	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): 465.56 lm

%lum = 99.6%

%lamp = 99.6%

Conical surface Flux(120deg): 467.33 lm

%lum = 100.0%

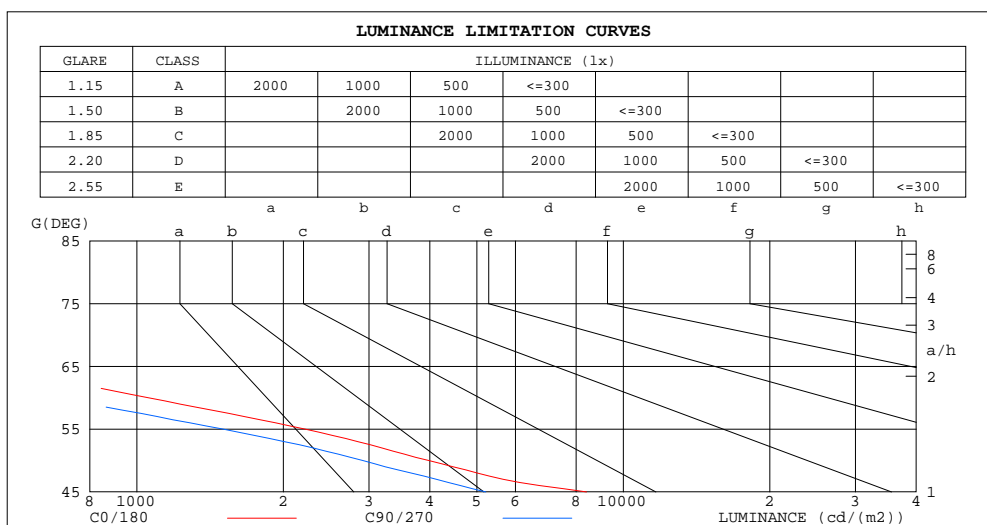
%lamp = 100.0%

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Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
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Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:4000K	DIM.: $\phi 40\text{mm} \times \text{H}70\text{mm}$	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	300	280
80	190	171
75	216	155
70	291	199
65	516	322
60	1054	673
55	2214	1502
50	3975	2908
45	8401	5218

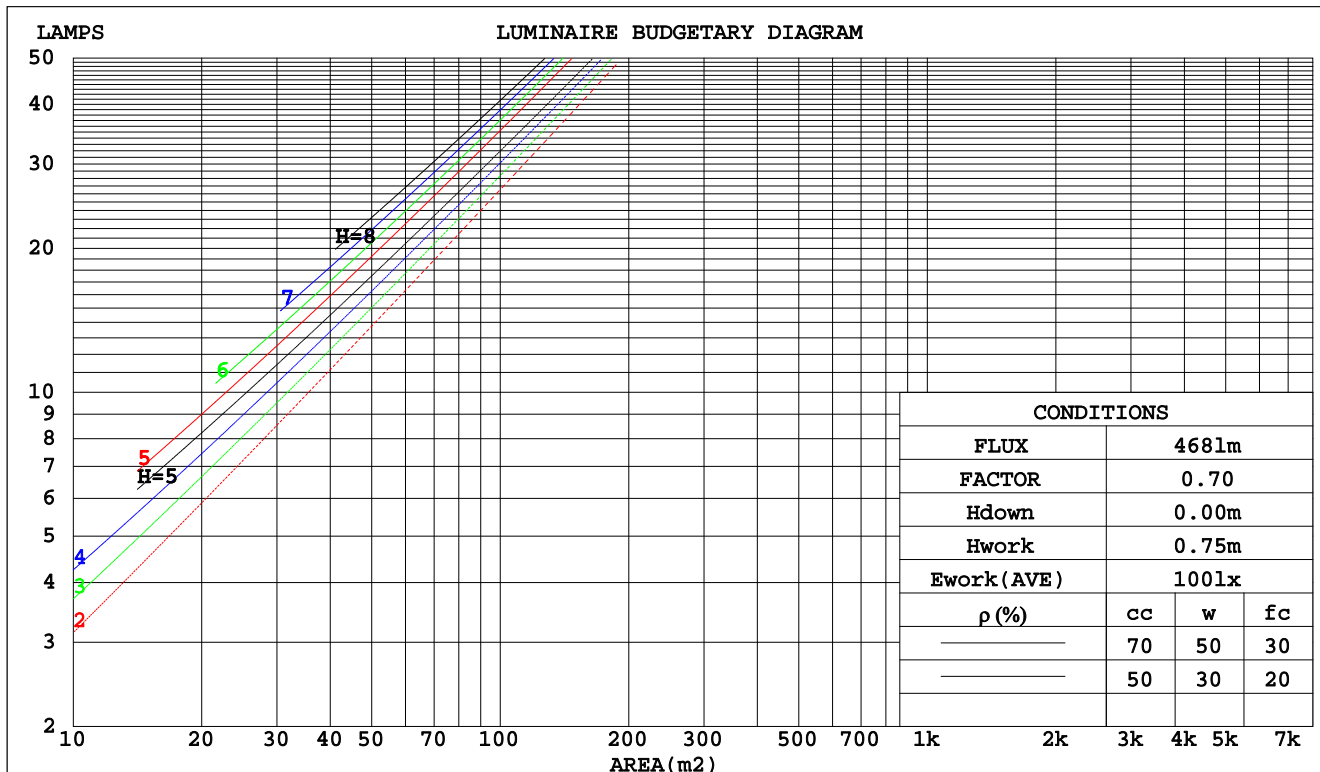
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	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	1.00	.99	.98	.97	.95
2.0	1.06	1.03	.90	1.04	1.01	.99	1.01	.99	.96	.98	.96	.94	.96	.94	.93	.91
3.0	1.00	.96	.93	.99	.95	.92	.97	.93	.91	.94	.92	.89	.92	.90	.88	.87
4.0	.96	.91	.88	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.82	.88	.85	.82	.87	.84	.81	.85	.83	.80	.79
6.0	.87	.82	.79	.86	.82	.78	.85	.81	.78	.83	.80	.77	.82	.79	.77	.76
7.0	.83	.78	.75	.83	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.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	.66
10.0	.73	.69	.65	.73	.68	.65	.72	.68	.65	.72	.68	.65	.71	.67	.65	.64



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WEC AND CCEC

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SPEC.:4000K	DIM.: φ40mm*H70mm	
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	.152	.087	.027	.146	.083	.026	.133	.076	.024	.122	.070	.023	.111	.064	.021		
2.0	.143	.078	.024	.138	.076	.023	.127	.071	.022	.118	.066	.021	.109	.062	.019		
3.0	.135	.072	.021	.130	.070	.021	.122	.066	.020	.113	.062	.019	.106	.059	.018		
4.0	.128	.066	.020	.124	.065	.019	.116	.062	.018	.109	.059	.018	.103	.056	.017		
5.0	.121	.062	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017	.100	.053	.016		
6.0	.116	.058	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015		
7.0	.111	.055	.015	.108	.054	.015	.103	.052	.015	.098	.050	.015	.094	.049	.014		
8.0	.106	.052	.015	.104	.051	.014	.099	.050	.014	.095	.048	.014	.091	.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	.093	.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	.152	.133	.116	.131	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013		
3.0	.138	.113	.093	.119	.098	.081	.081	.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	.020	.012	.009	.006		
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.006		
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	.052	.032	.018	.030	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG
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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.1663A P:7.983W PF:1.000 Freq:0Hz Lamp Flux:467.545x1 lm										
NAME: ML26-RS40-8W-940-45					TYPE:Low Voltage Track System Module					
SPEC.:4000K					DIM.: ϕ 40mm*H70mm					
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	21.7	22.4	21.9	22.6	22.7	19.1	19.9	19.3	20.1	20.2
3H	21.5	22.2	21.7	22.4	22.6	19.0	19.7	19.2	19.9	20.1
4H	21.4	22.1	21.7	22.3	22.5	18.9	19.6	19.2	19.8	20.0
6H	21.3	22.0	21.6	22.2	22.4	18.8	19.4	19.1	19.7	19.9
8H	21.3	21.9	21.6	22.1	22.4	18.8	19.4	19.1	19.6	19.9
12H	21.2	21.8	21.6	22.1	22.4	18.7	19.3	19.0	19.6	19.8
4H 2H	21.4	22.1	21.7	22.3	22.5	18.9	19.6	19.2	19.8	20.0
3H	21.2	21.8	21.6	22.1	22.4	18.7	19.3	19.0	19.6	19.8
4H	21.2	21.7	21.5	22.0	22.3	18.6	19.2	19.0	19.4	19.7
6H	21.1	21.5	21.4	21.8	22.2	18.5	19.0	18.9	19.3	19.7
8H	21.0	21.4	21.4	21.8	22.1	18.5	18.9	18.9	19.3	19.6
12H	20.9	21.3	21.3	21.7	22.1	18.4	18.8	18.8	19.2	19.6
8H 4H	21.0	21.4	21.4	21.8	22.1	18.5	18.9	18.9	19.3	19.6
6H	20.9	21.2	21.3	21.6	22.1	18.4	18.7	18.8	19.1	19.5
8H	20.8	21.1	21.3	21.6	22.0	18.3	18.6	18.7	19.0	19.5
12H	20.8	21.0	21.2	21.5	22.0	18.2	18.5	18.7	19.0	19.4
12H 4H	20.9	21.3	21.3	21.7	22.1	18.4	18.8	18.8	19.2	19.6
6H	20.8	21.1	21.3	21.6	22.0	18.3	18.6	18.7	19.0	19.5
8H	20.8	21.0	21.2	21.5	22.0	18.2	18.5	18.7	19.0	19.4
Variations with the observer position at spacings:										
S = 1.0H	+ 4.5 / -17.2					+ 3.6 / -14.7				
1.5H	+ 7.1 / -13.7					+ 6.1 / -10.4				
2.0H	+ 6.1 / - 9.0					+ 5.0 / - 8.5				

CIE Pub.117, 467.5 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -2.6$)

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UTILIZATION FACTORS TABLE

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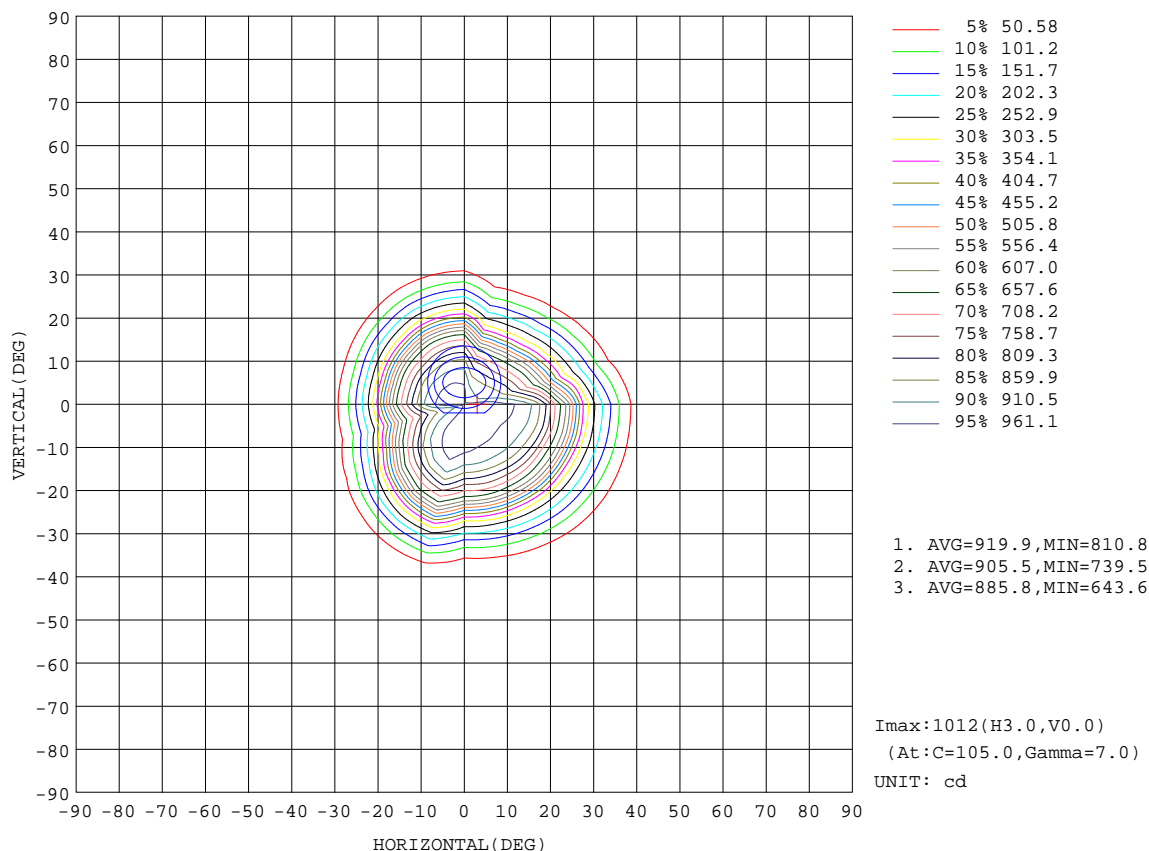
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	92	89	86
1.00	102	97	93	101	96	93	99	96	93	89
1.25	105	101	98	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	106	104	98
4.00	115	112	110	113	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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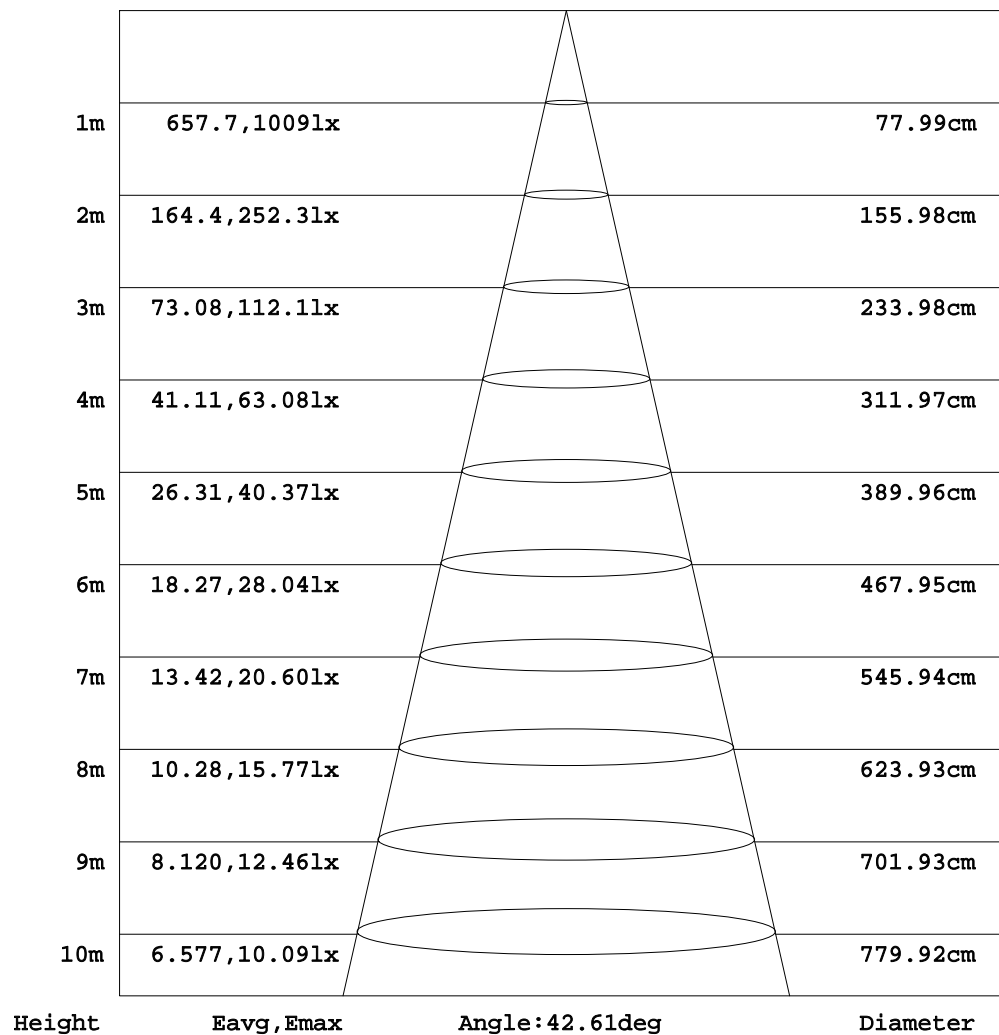
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AAI Figure

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Flux out:320.6 lm



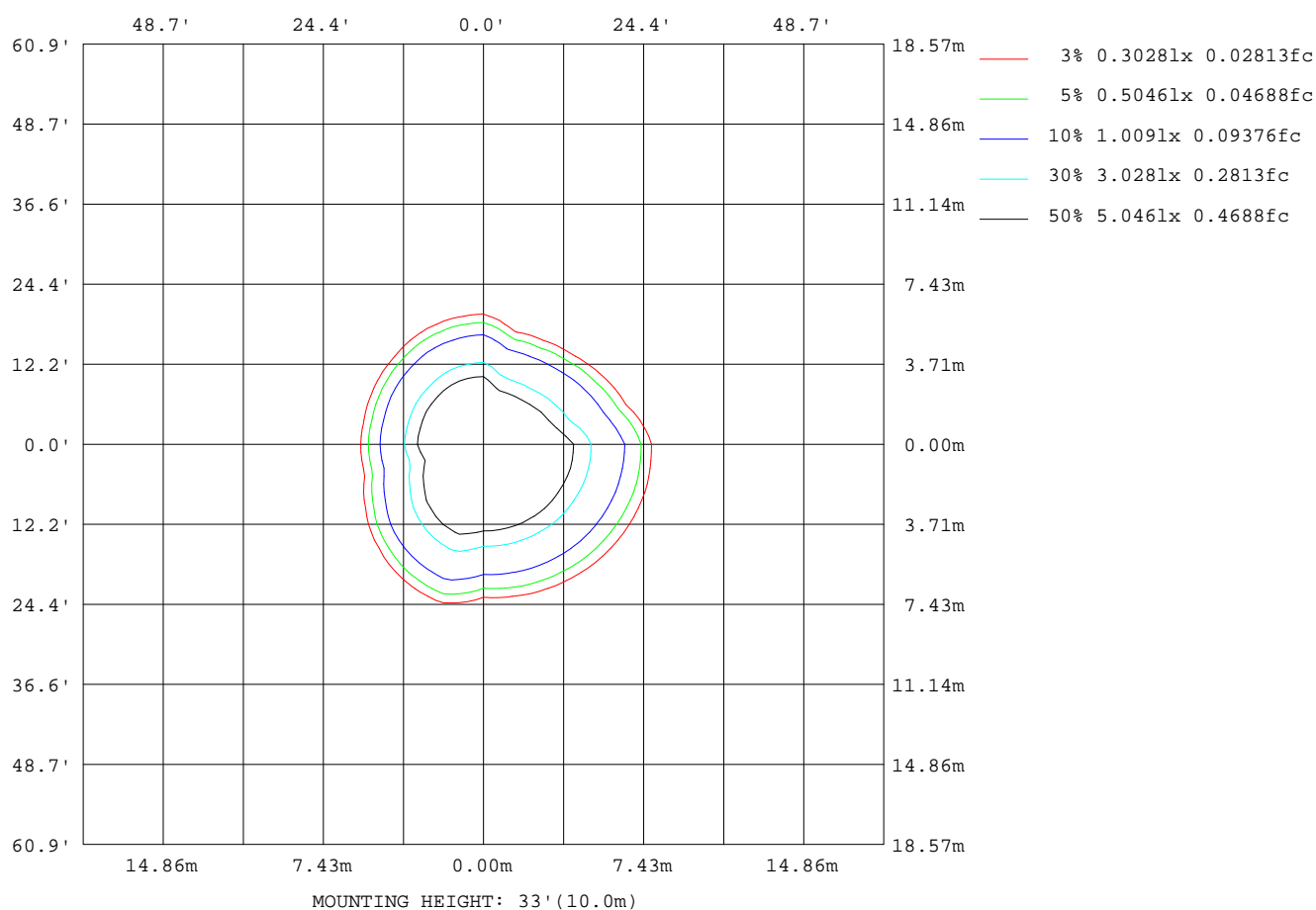
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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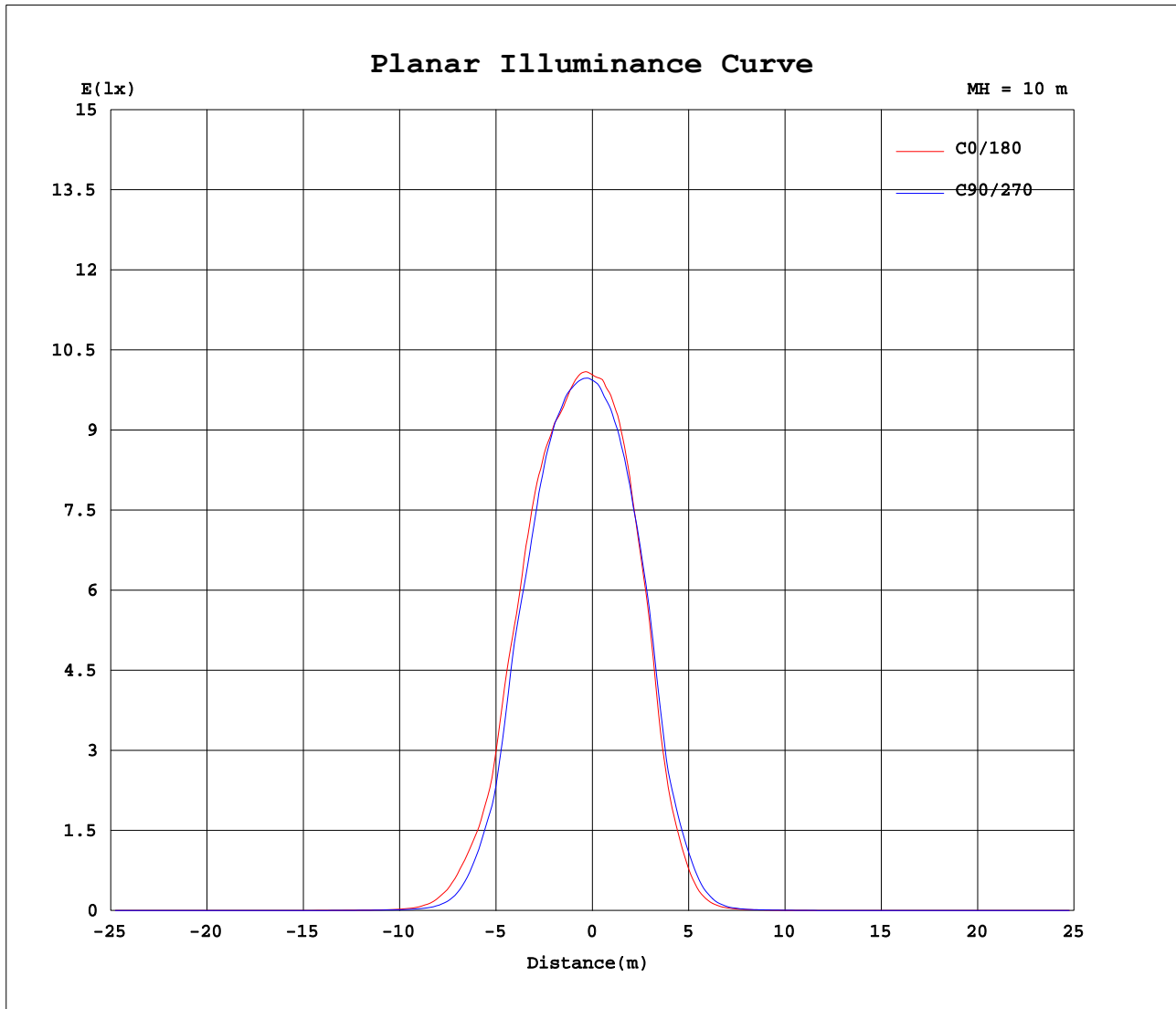
AvgL	cd/m2
L_0~180 (65) av	284
L_0~180 (75) av	137
L_0~180 (85) av	242
L_90~270 (65) av	208
L_90~270 (75) av	106
L_90~270 (85) av	225
L_45 (65) av	229
L_45 (75) av	101
L_45 (85) av	227

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-18

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



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-05-18

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:

```

```

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:

```