

Low Voltage Track System Module ML26-RT55-10W-927-35-60#35



Light Output Ratio:	100.0%	
Luminaire Power:	9.71 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: 2020-05-09

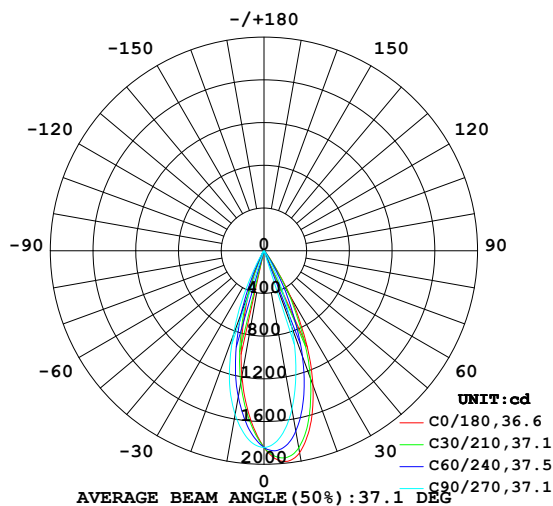
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

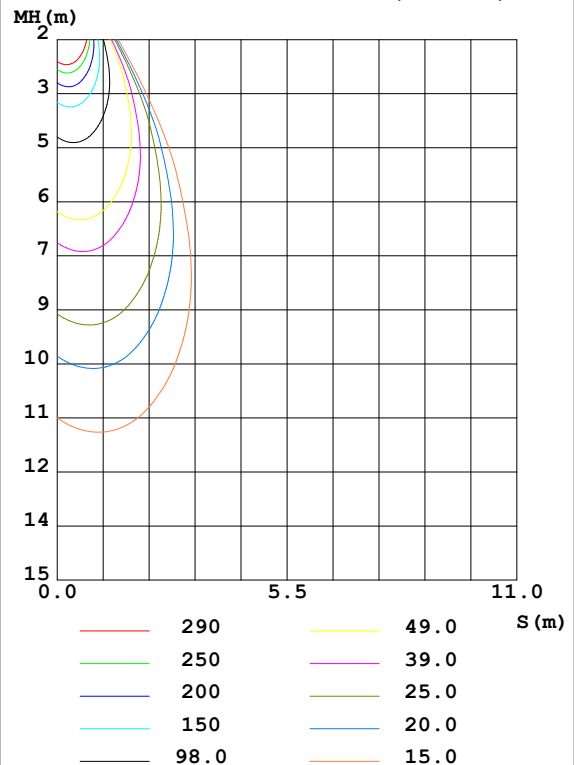
Test:U:48.00V I:0.2023A P:9.710W PF:1.000 Freq:0Hz Lamp Flux:765.075x1 lm		
NAME: ML26-RT55-10W-927-35-60#35	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: ϕ 55mm*H150mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.79 lm/W			
MODEL	CITIZEN-2700K	I _{max} (cd)	1984	S/MH (C0/180)	0.45
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.60
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	765.08	η UP, DN (C0-180)	0.0, 52.0
NOMINAL FLUX (lm)	765.075	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.0
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	1920	1817	1505	1267	1194	1303	1556	1787	0- 10	161.3	161.3	21.1,21.1
20	1341	1195	754.4	471.4	394.5	519.1	841.6	1172	10- 20	331.9	493.2	64.5,64.5
30	500.6	394.0	131.4	48.10	35.82	46.00	111.5	309.7	20- 30	212.8	706.0	92.3,92.3
40	45.83	34.84	14.52	8.645	6.916	10.24	22.62	34.26	30- 40	45.98	752.0	98.3,98.3
50	11.92	7.780	4.450	2.236	1.732	1.998	4.278	11.68	40- 50	9.425	761.4	99.5,99.5
60	2.230	1.955	1.365	0.7827	0.6741	0.7615	1.202	1.849	50- 60	2.592	764.0	99.9,99.9
70	0.8224	0.7095	0.3397	0.1509	0.0979	0.1160	0.1591	0.5808	60- 70	0.7816	764.8	100,100
80	0.1853	0.1529	0.1181	0.0503	0.0305	0.0459	0.0415	0.1162	70- 80	0.1970	765.0	100,100
90	0.0653	0.0612	0.0437	0.0394	0.0240	0.0240	0.0218	0.0372	80- 90	0.0654	765.1	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): 758.03 lm

%lum = 99.1%

%lamp = 99.1%

Conical surface Flux(120deg): 764.03 lm

%lum = 99.9%

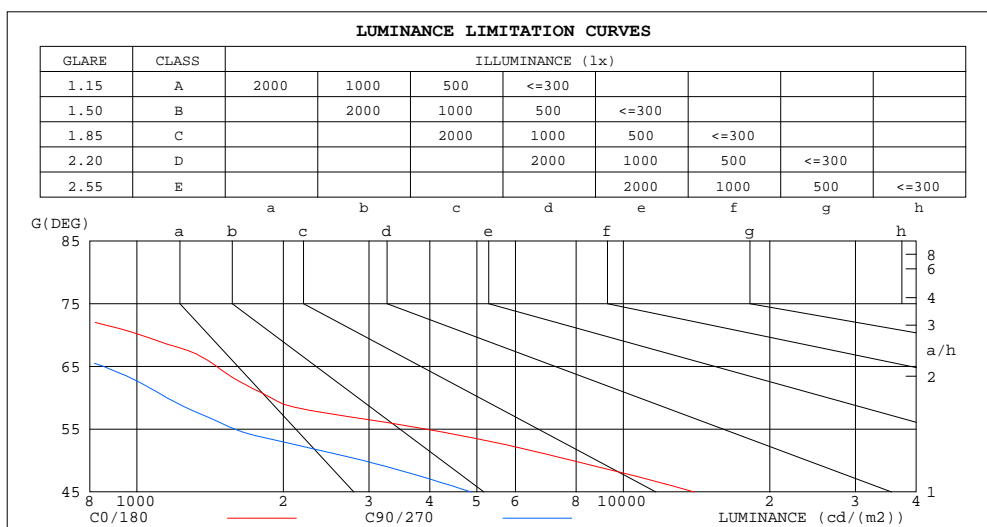
%lamp = 99.9%

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Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:2700K	DIM.: ϕ 55mm*H150mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	560	349
80	451	287
75	534	299
70	1016	419
65	1459	853
60	1886	1150
55	3921	1588
50	7840	2917
45	13980	4860

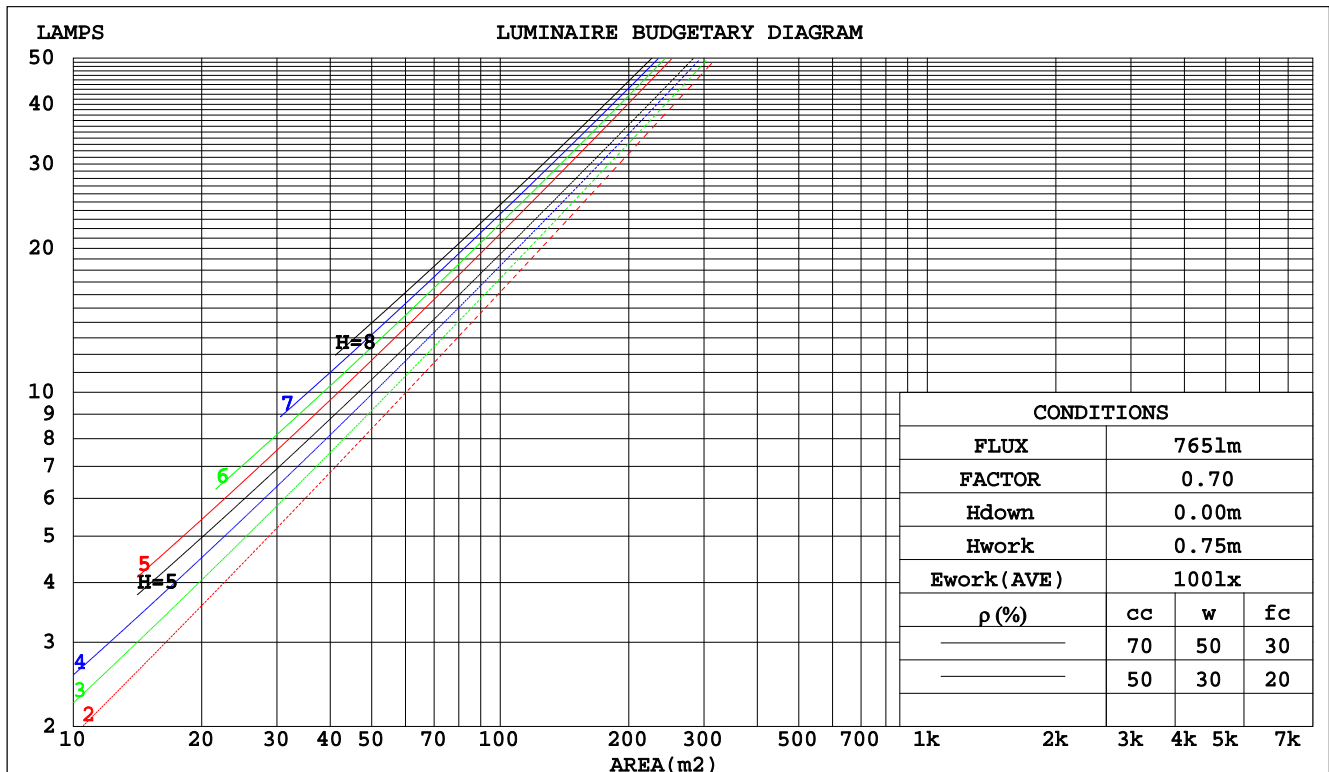
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:2700K	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	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	1.00
1.0	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	.90	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.91	.88	.95	.91	.87	.93	.89	.86	.91	.88	.85	.89	.87	.84	.83
5.0	.91	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.81	.86	.83	.81	.80
6.0	.87	.83	.79	.87	.82	.79	.85	.81	.78	.84	.81	.78	.83	.80	.77	.76
7.0	.84	.79	.76	.83	.79	.75	.82	.78	.75	.81	.77	.75	.80	.77	.74	.73
8.0	.80	.76	.72	.80	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.69	.67
10.0	.74	.70	.67	.74	.69	.66	.73	.69	.66	.72	.69	.66	.72	.68	.66	.65



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WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.151	.086	.027	.144	.082	.026	.132	.076	.024	.120	.069	.022	.110	.064	.021		
2.0	.142	.078	.024	.136	.075	.023	.126	.070	.022	.116	.065	.020	.108	.061	.019		
3.0	.133	.071	.021	.129	.069	.021	.120	.065	.020	.112	.061	.019	.105	.058	.018		
4.0	.126	.066	.019	.122	.064	.019	.115	.061	.018	.108	.058	.017	.102	.055	.017		
5.0	.120	.061	.018	.116	.060	.017	.110	.057	.017	.104	.055	.016	.099	.053	.016		
6.0	.114	.057	.016	.111	.056	.016	.106	.054	.016	.100	.052	.015	.096	.050	.015		
7.0	.109	.054	.015	.106	.053	.015	.101	.051	.015	.097	.050	.014	.093	.048	.014		
8.0	.104	.051	.014	.102	.050	.014	.098	.049	.014	.094	.047	.014	.090	.046	.013		
9.0	.100	.048	.014	.098	.048	.013	.094	.047	.013	.091	.045	.013	.087	.044	.013		
10.0	.096	.046	.013	.094	.046	.013	.091	.045	.013	.088	.044	.012	.085	.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	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.127	.098	.077	.109	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.109	.076	.053	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.069	.045	.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	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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Operators:Jason
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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:0.2023A P:9.710W PF:1.000 Freq:0Hz Lamp Flux:765.075x1 lm										
NAME: ML26-RT55-10W-927-35-60#35					TYPE:Low Voltage Track System Module					
SPEC.:2700K					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	19.1	19.9	19.4	20.1	20.2	12.5	13.2	12.7	13.4	13.5
3H	19.0	19.7	19.2	19.9	20.1	12.3	13.0	12.6	13.2	13.4
4H	18.9	19.6	19.2	19.8	20.0	12.3	12.9	12.5	13.1	13.3
6H	18.8	19.5	19.1	19.7	19.9	12.2	12.8	12.5	13.0	13.3
8H	18.8	19.4	19.1	19.6	19.9	12.1	12.7	12.4	13.0	13.2
12H	18.7	19.3	19.1	19.6	19.9	12.1	12.7	12.4	12.9	13.2
4H 2H	18.9	19.6	19.2	19.8	20.0	12.3	12.9	12.5	13.1	13.4
3H	18.7	19.3	19.1	19.6	19.9	12.1	12.7	12.4	13.0	13.2
4H	18.7	19.2	19.0	19.5	19.8	12.0	12.6	12.4	12.9	13.2
6H	18.6	19.0	18.9	19.4	19.7	11.9	12.4	12.3	12.7	13.1
8H	18.5	18.9	18.9	19.3	19.6	11.9	12.3	12.3	12.7	13.0
12H	18.5	18.8	18.9	19.2	19.6	11.8	12.2	12.2	12.6	13.0
8H 4H	18.5	18.9	18.9	19.3	19.6	11.9	12.3	12.3	12.7	13.0
6H	18.4	18.8	18.8	19.1	19.6	11.8	12.2	12.2	12.5	13.0
8H	18.3	18.7	18.8	19.1	19.5	11.7	12.1	12.2	12.5	12.9
12H	18.3	18.6	18.7	19.0	19.5	11.7	12.0	12.1	12.4	12.9
12H 4H	18.5	18.8	18.9	19.2	19.6	11.8	12.2	12.2	12.6	13.0
6H	18.3	18.7	18.8	19.1	19.5	11.7	12.1	12.2	12.5	12.9
8H	18.3	18.6	18.7	19.0	19.5	11.7	12.0	12.1	12.4	12.9
Variations with the observer position at spacings:										
S = 1.0H	+ 4.1 / - 9.9					+ 2.7 / - 7.2				
1.5H	+ 6.2 / - 8.5					+ 4.1 / - 5.4				
2.0H	+ 6.1 / - 6.7					+ 4.1 / - 4.4				

CIE Pub.117, 765.1 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -0.9$)

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 γ Interval: 0.5DEG
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Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

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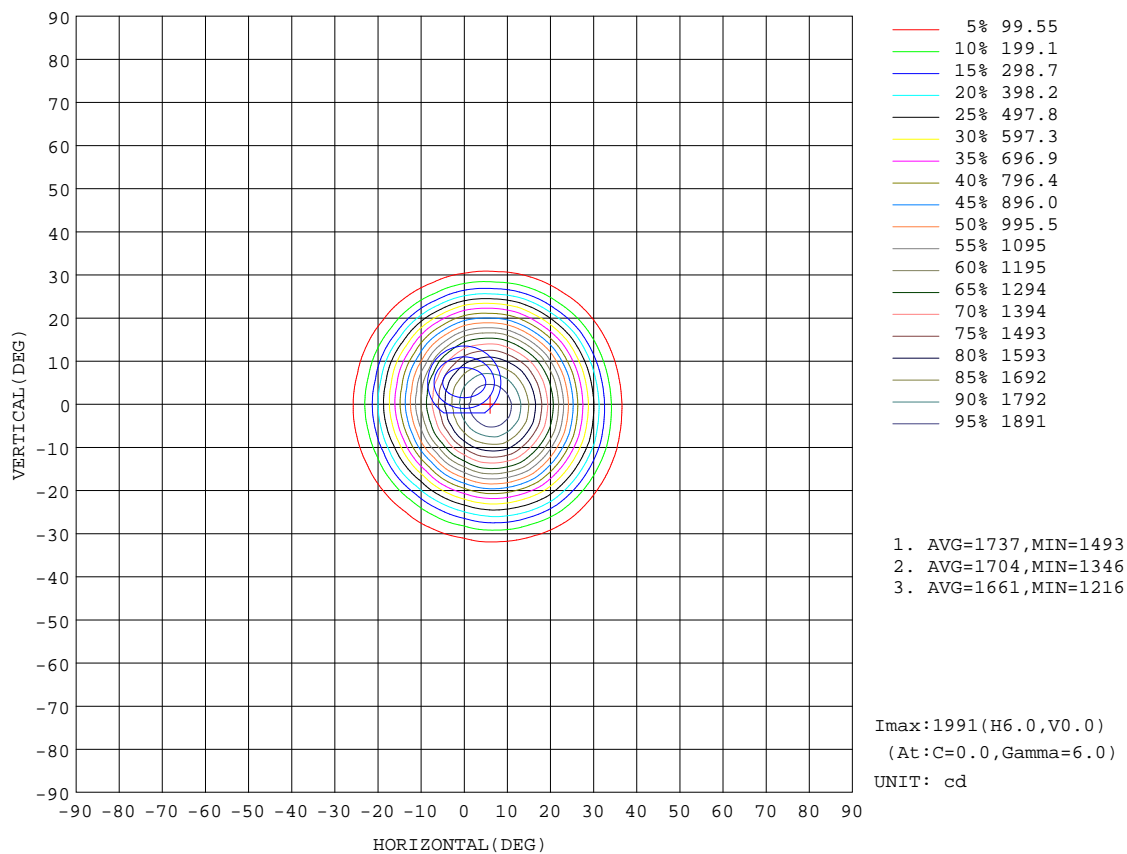
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	88	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	107	104	102	96
3.00	113	109	107	111	108	106	107	105	104	97
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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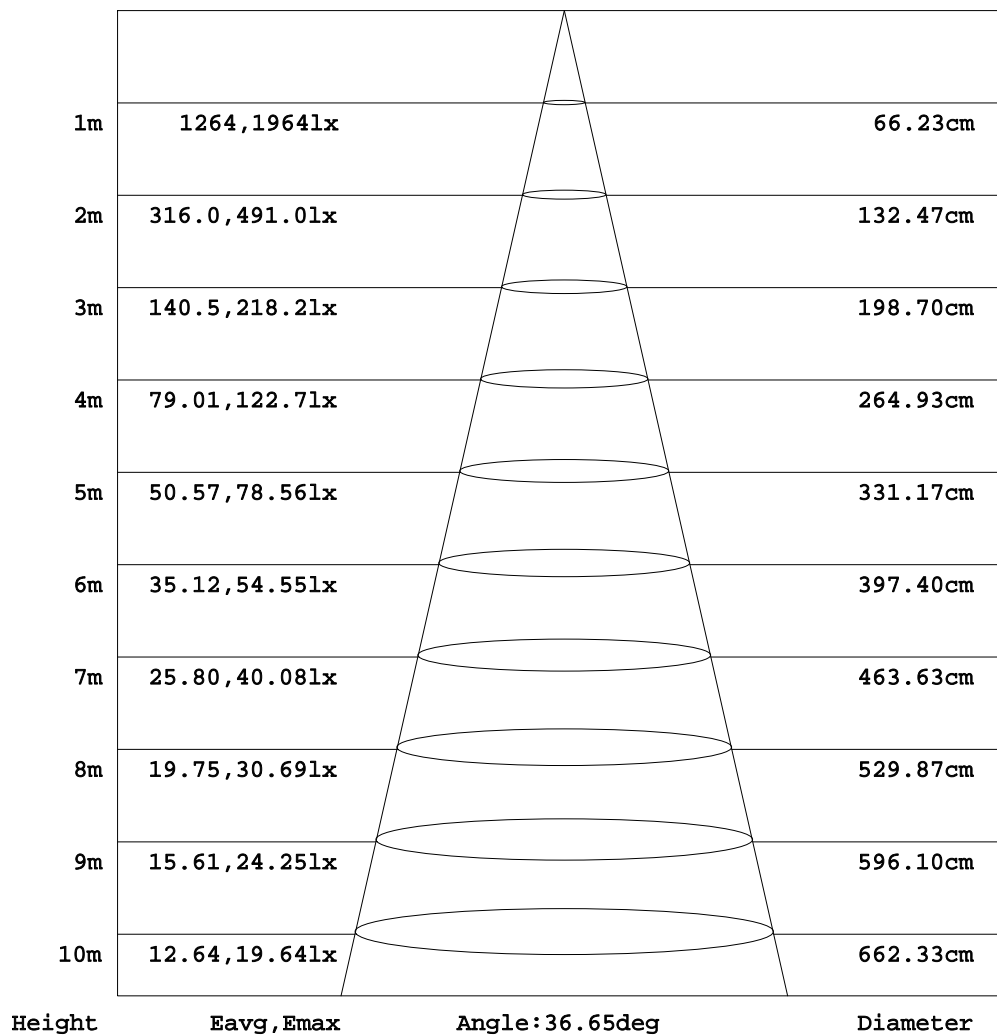
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AAI Figure

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Flux out:444.6 lm



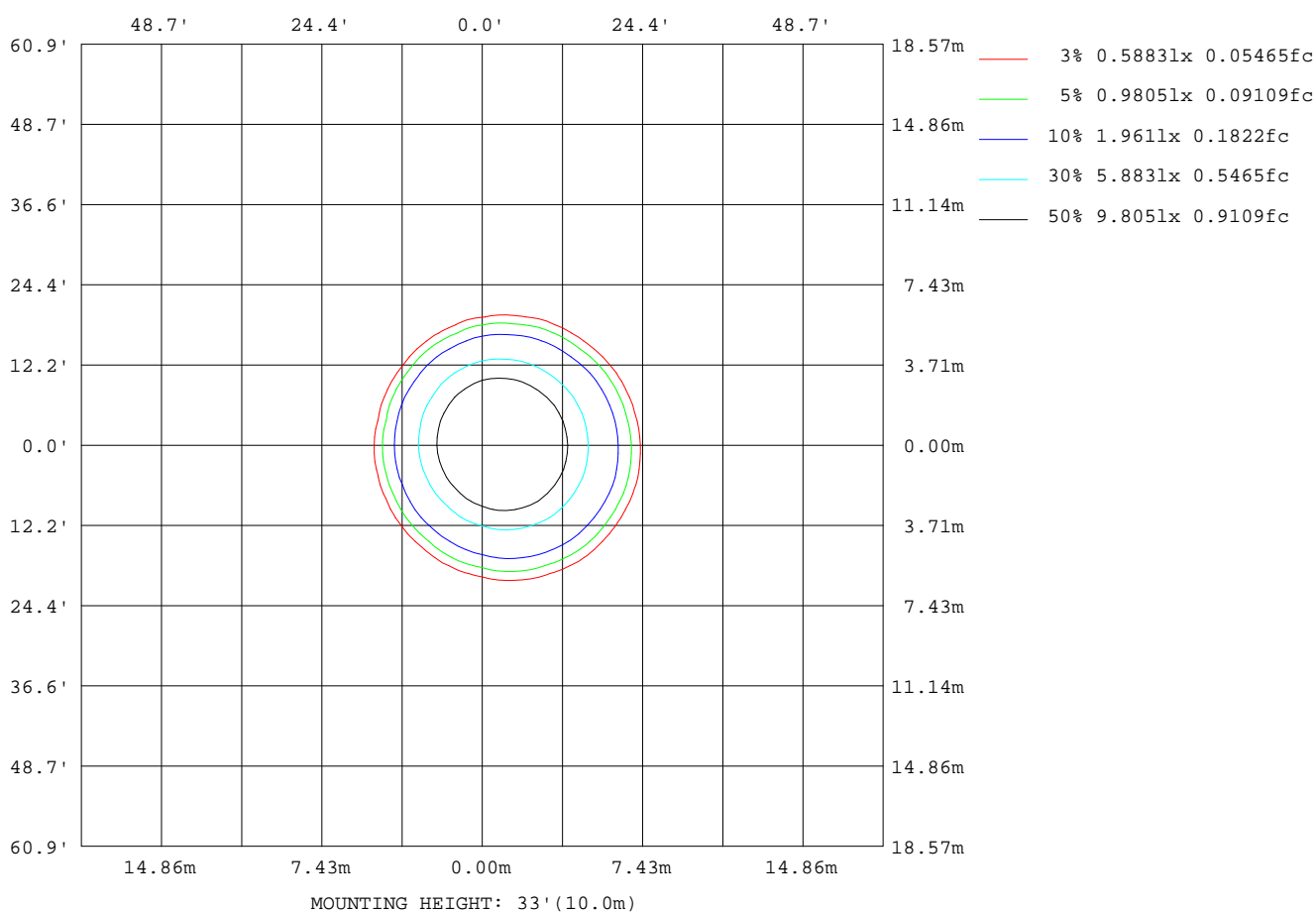
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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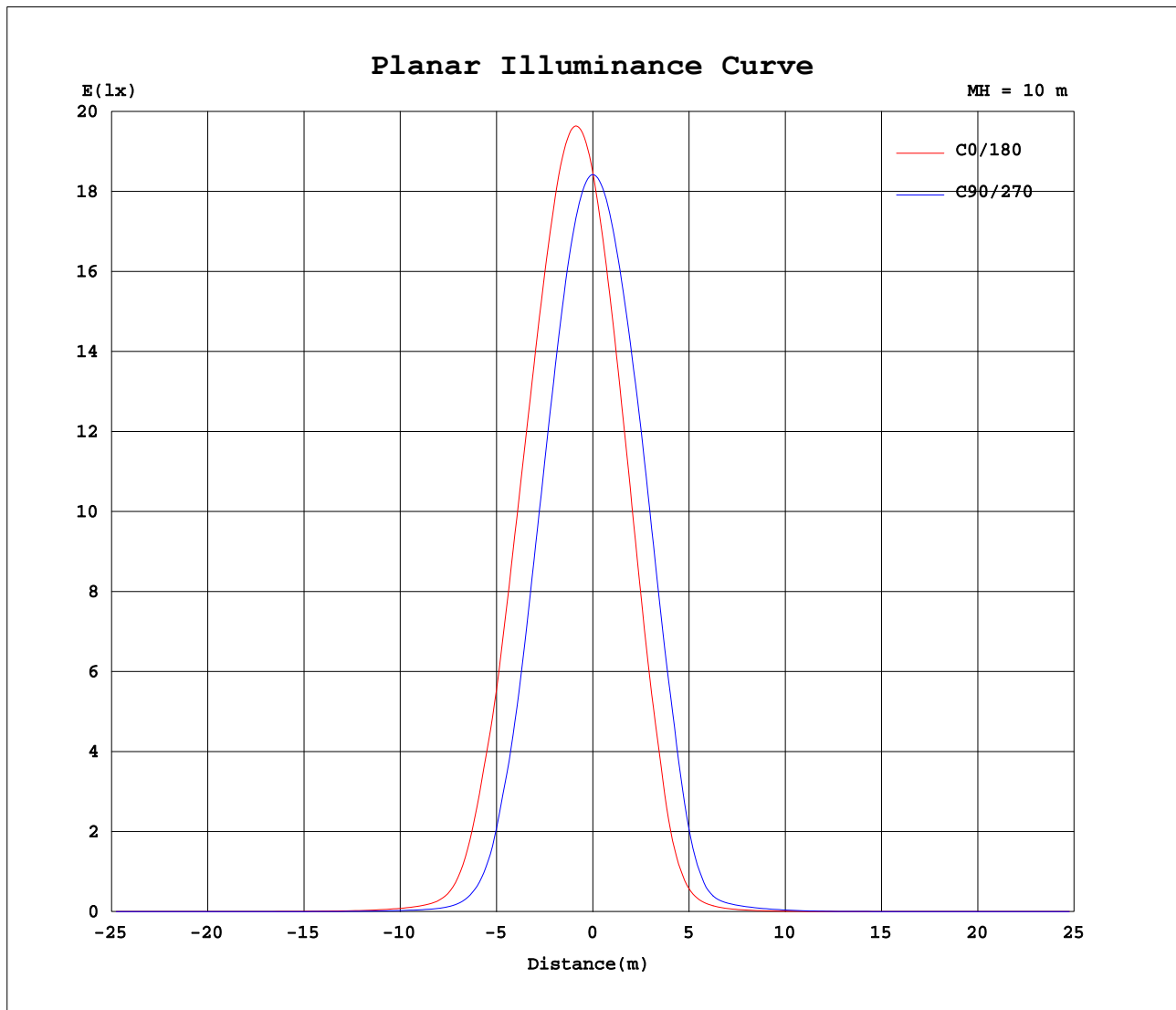
AvgL	cd/m2
L_0~180 (65) av	822
L_0~180 (75) av	312
L_0~180 (85) av	337
L_90~270 (65) av	710
L_90~270 (75) av	217
L_90~270 (85) av	238
L_45 (65) av	749
L_45 (75) av	260
L_45 (85) av	272

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-09

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: 2020-05-09

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:

```