

Low Voltage Track System Module LX26-RS40-8W-927-45



Light Output Ratio:	100.0%	
Luminaire Power:	7.975 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: 2020-05-12

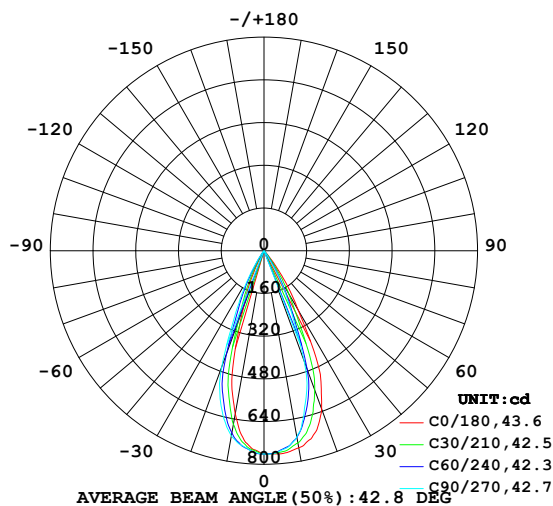
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

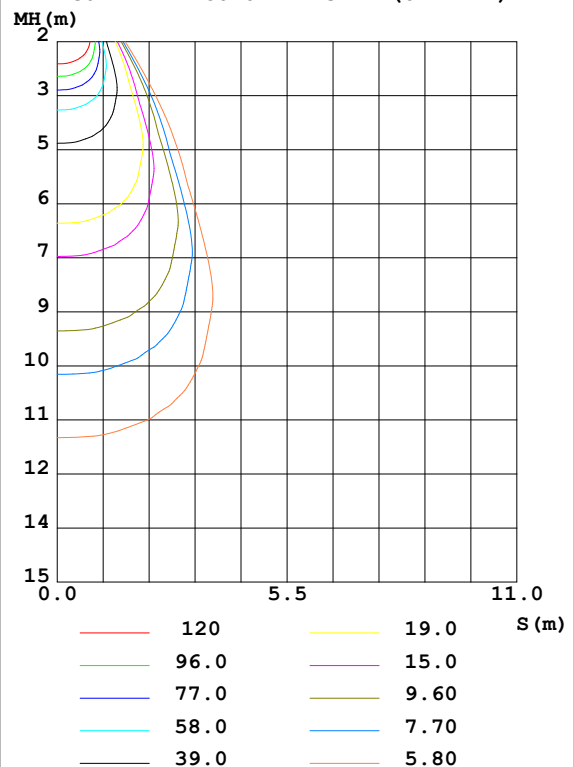
Test:U:48.00V I:0.1661A P:7.975W PF:1.000 Freq:0Hz Lamp Flux:375.113x1 lm		
NAME: ML26-RS40-8W-927-45	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: ϕ 40mm*H70mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 47.04 lm/W			
MODEL	CITIZEN-2700K	I _{max} (cd)	765.0	S/MH (C0/180)	0.51
NOMINAL POWER (W)	8	LOR (%)	100.0	S/MH (C90/270)	0.65
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	375.11	η UP,DN (C0-180)	0.0,52.6
NOMINAL FLUX (lm)	375.113	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,47.4
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)



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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	749.3	719.1	708.6	699.5	620.2	675.3	704.2	716.7	0- 10	69.89	69.89	18.6,18.6
20	631.6	523.6	439.8	375.5	226.0	335.4	463.7	489.0	10- 20	162.3	232.2	61.9,61.9
30	255.3	152.7	101.0	75.54	24.77	61.73	108.6	131.4	20- 30	112.8	345.0	92,92
40	37.09	11.09	5.947	4.532	2.439	4.028	6.662	8.289	30- 40	26.43	371.4	99,99
50	3.218	1.856	1.243	1.022	0.5175	0.9610	1.440	1.693	40- 50	2.774	374.2	99.8,99.8
60	0.7943	0.3819	0.2451	0.1911	0.1143	0.2055	0.2810	0.3630	50- 60	0.6700	374.9	99.9,99.9
70	0.1796	0.0798	0.0715	0.0444	0.0345	0.0649	0.0649	0.1002	60- 70	0.1627	375.0	100,100
80	0.0584	0.0281	0.0303	0.0267	0.0130	0.0238	0.0173	0.0357	70- 80	0.0502	375.1	100,100
90	0.0151	0.0173	0.1277	0.1468	0.0130	0.1318	0.0346	0.0133	80- 90	0.0297	375.1	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): 373.34 lm

%lum = 99.5%

%lamp = 99.5%

Conical surface Flux(120deg): 374.87 lm

%lum = 99.9%

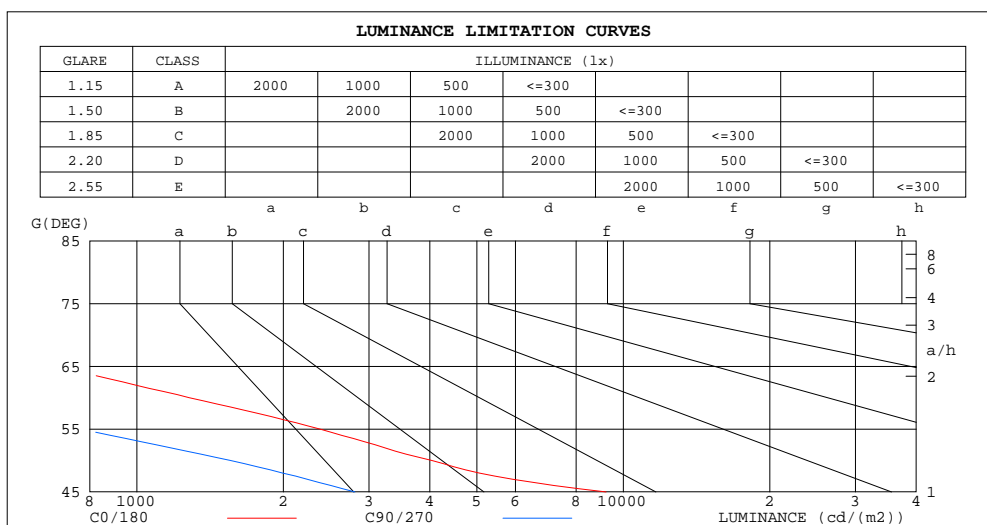
%lamp = 99.9%

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Test Speed: HIGH
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Remarks:

LUMINANCE LIMITATION CURVES

Test:U:48.00V I:0.1661A P:7.975W PF:1.000 Freq:0Hz Lamp Flux:375.113x1 lm		
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SPEC.:2700K	DIM.: ϕ 40mm*H70mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	320	220
80	271	140
75	310	148
70	423	168
65	697	235
60	1280	394
55	2377	763
50	4034	1555
45	9215	2807

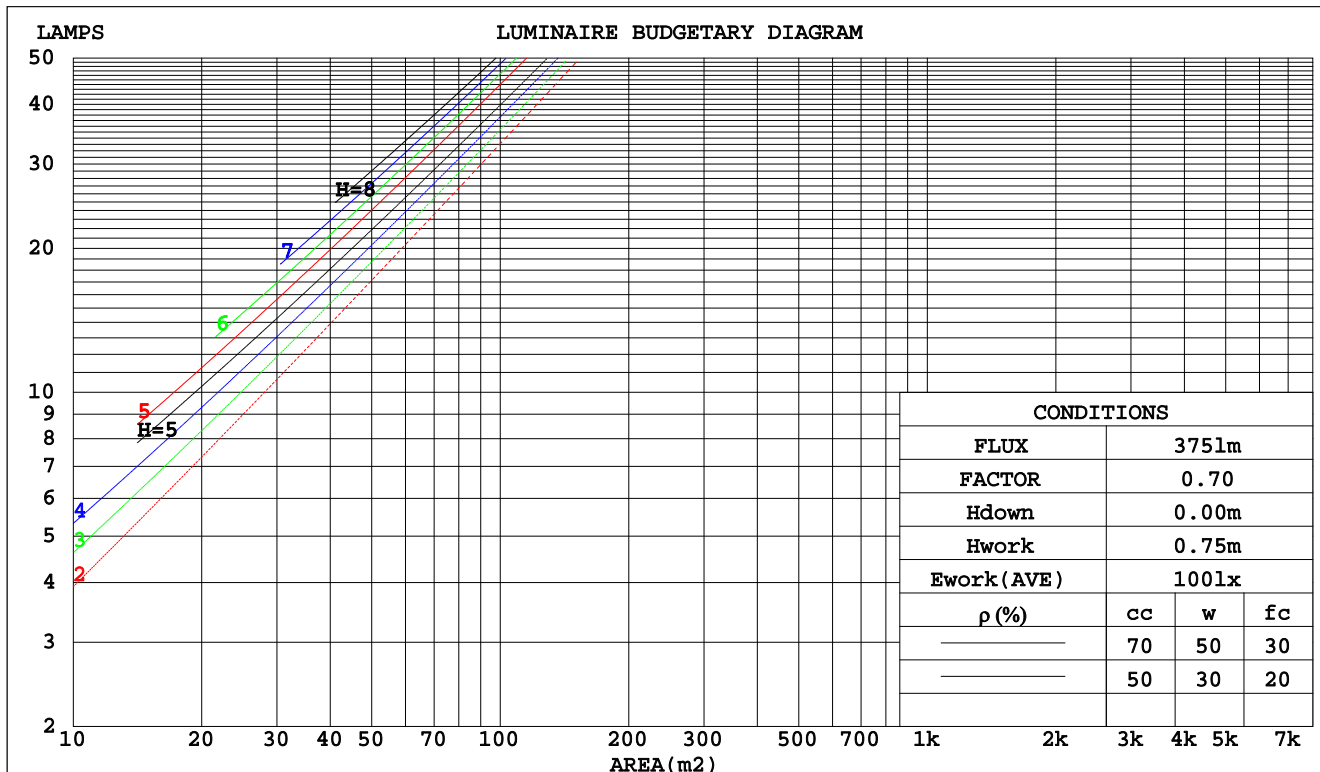
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:2700K	DIM.: $\phi 40\text{mm} \times \text{H}70\text{mm}$	
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	1.12	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	1.02	.00	1.04	1.01	.99	1.01	.99	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.92	.89	.92	.90	.88	.87
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.82	.88	.84	.82	.87	.83	.81	.85	.82	.80	.79
6.0	.87	.82	.78	.86	.81	.78	.85	.81	.78	.83	.80	.77	.82	.79	.77	.75
7.0	.83	.78	.75	.82	.78	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.72
8.0	.79	.75	.71	.79	.74	.71	.78	.74	.71	.77	.73	.70	.76	.73	.70	.69
9.0	.76	.71	.68	.76	.71	.68	.75	.71	.68	.74	.70	.68	.73	.70	.67	.66
10.0	.73	.68	.65	.73	.68	.65	.72	.68	.65	.71	.68	.65	.71	.67	.65	.64



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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	.153	.087	.028	.146	.083	.026	.134	.077	.024	.122	.070	.023	.112	.065	.021		
2.0	.144	.079	.024	.138	.076	.023	.128	.071	.022	.118	.066	.021	.109	.062	.019		
3.0	.135	.072	.022	.131	.070	.021	.122	.066	.020	.114	.062	.019	.106	.059	.018		
4.0	.128	.067	.020	.124	.065	.019	.117	.062	.019	.110	.059	.018	.103	.056	.017		
5.0	.122	.062	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017	.100	.054	.016		
6.0	.116	.058	.017	.113	.057	.016	.108	.055	.016	.102	.053	.016	.098	.051	.015		
7.0	.111	.055	.016	.108	.054	.015	.104	.052	.015	.099	.051	.015	.095	.049	.014		
8.0	.106	.052	.015	.104	.051	.014	.100	.050	.014	.096	.048	.014	.092	.047	.014		
9.0	.102	.049	.014	.100	.049	.014	.096	.048	.013	.093	.046	.013	.089	.045	.013		
10.0	.098	.047	.013	.096	.047	.013	.093	.046	.013	.090	.045	.013	.087	.044	.013		

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	.139	.113	.093	.119	.098	.081	.082	.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	.019	.012	.009	.006		
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.005		
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		

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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:0.1661A P:7.975W PF:1.000 Freq:0Hz Lamp Flux:375.113x1 lm										
NAME: ML26-RS40-8W-927-45					TYPE:Low Voltage Track System Module					
SPEC.:2700K					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	22.1	22.9	22.3	23.0	23.2	14.4	15.2	14.6	15.4	15.5
3H	22.0	22.7	22.2	22.9	23.1	14.3	15.0	14.5	15.2	15.4
4H	21.9	22.6	22.1	22.8	23.0	14.2	14.9	14.5	15.1	15.3
6H	21.8	22.4	22.1	22.7	22.9	14.1	14.7	14.4	15.0	15.2
8H	21.7	22.4	22.0	22.6	22.9	14.1	14.7	14.4	14.9	15.2
12H	21.7	22.3	22.0	22.5	22.8	14.0	14.6	14.3	14.9	15.1
4H 2H	21.9	22.5	22.1	22.8	23.0	14.2	14.9	14.5	15.1	15.3
3H	21.7	22.3	22.0	22.5	22.8	14.0	14.6	14.3	14.9	15.1
4H	21.6	22.1	21.9	22.4	22.7	13.9	14.5	14.3	14.8	15.1
6H	21.5	22.0	21.9	22.3	22.6	13.8	14.3	14.2	14.6	15.0
8H	21.5	21.9	21.8	22.2	22.6	13.8	14.2	14.2	14.6	14.9
12H	21.4	21.8	21.8	22.2	22.6	13.7	14.1	14.1	14.5	14.9
8H 4H	21.5	21.9	21.8	22.2	22.6	13.8	14.2	14.2	14.6	14.9
6H	21.3	21.7	21.8	22.1	22.5	13.7	14.0	14.1	14.4	14.8
8H	21.3	21.6	21.7	22.0	22.5	13.6	13.9	14.1	14.3	14.8
12H	21.2	21.5	21.7	21.9	22.4	13.6	13.8	14.0	14.3	14.7
12H 4H	21.4	21.8	21.8	22.2	22.6	13.7	14.1	14.1	14.5	14.9
6H	21.3	21.6	21.7	22.0	22.5	13.6	13.9	14.1	14.3	14.8
8H	21.2	21.5	21.7	21.9	22.4	13.6	13.8	14.0	14.3	14.7
Variations with the observer position at spacings:										
S = 1.0H	+ 5.8 / -16.8					+ 3.8 / -11.5				
1.5H	+ 8.5 / -15.1					+ 6.0 / - 8.1				
2.0H	+ 7.6 / - 8.8					+ 4.9 / - 6.7				

CIE Pub.117, 375.1 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -3.4$)

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 γ Interval: 0.5DEG
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Humidity:58%
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Remarks:

UTILIZATION FACTORS TABLE

Test:U:48.00V I:0.1661A P:7.975W PF:1.000 Freq:0Hz Lamp Flux:375.113x1 lm		
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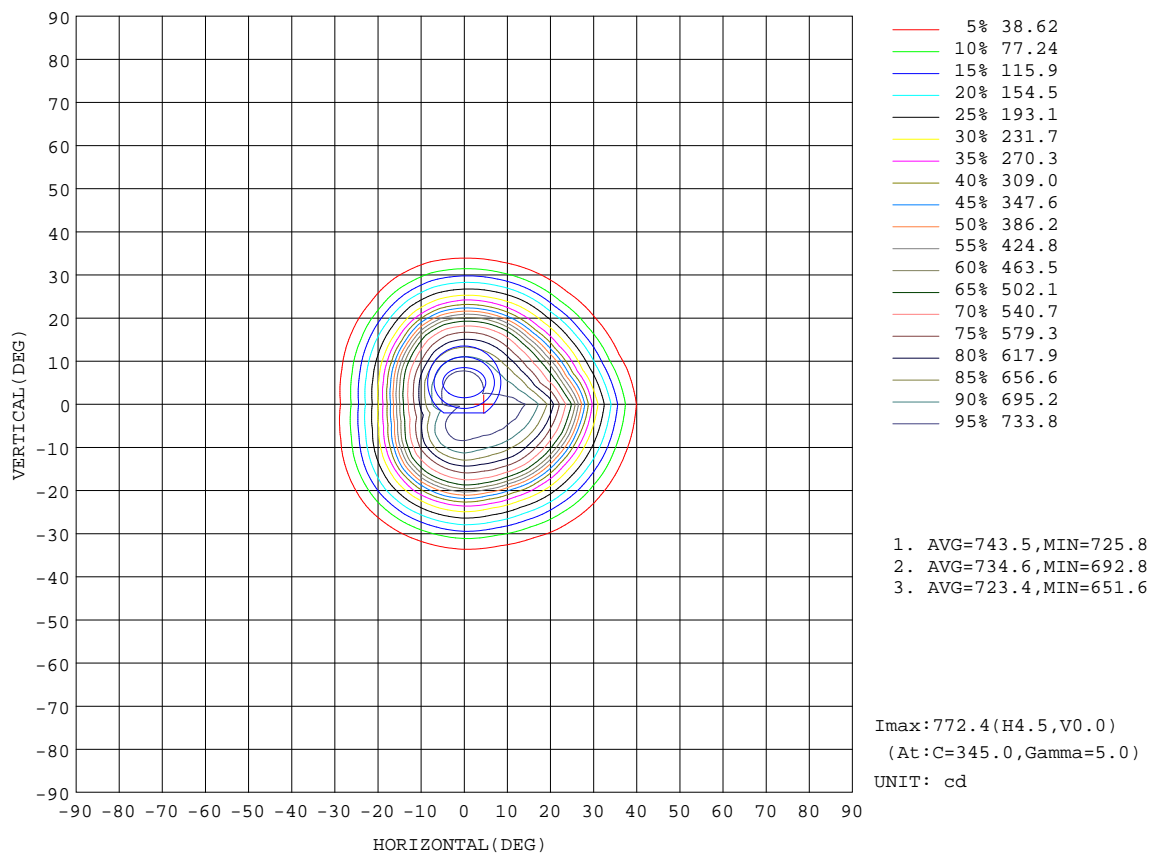
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	82	78
0.80	98	93	89	97	92	89	96	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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SPEC.:2700K	DIM.: ϕ 40mm*H70mm	
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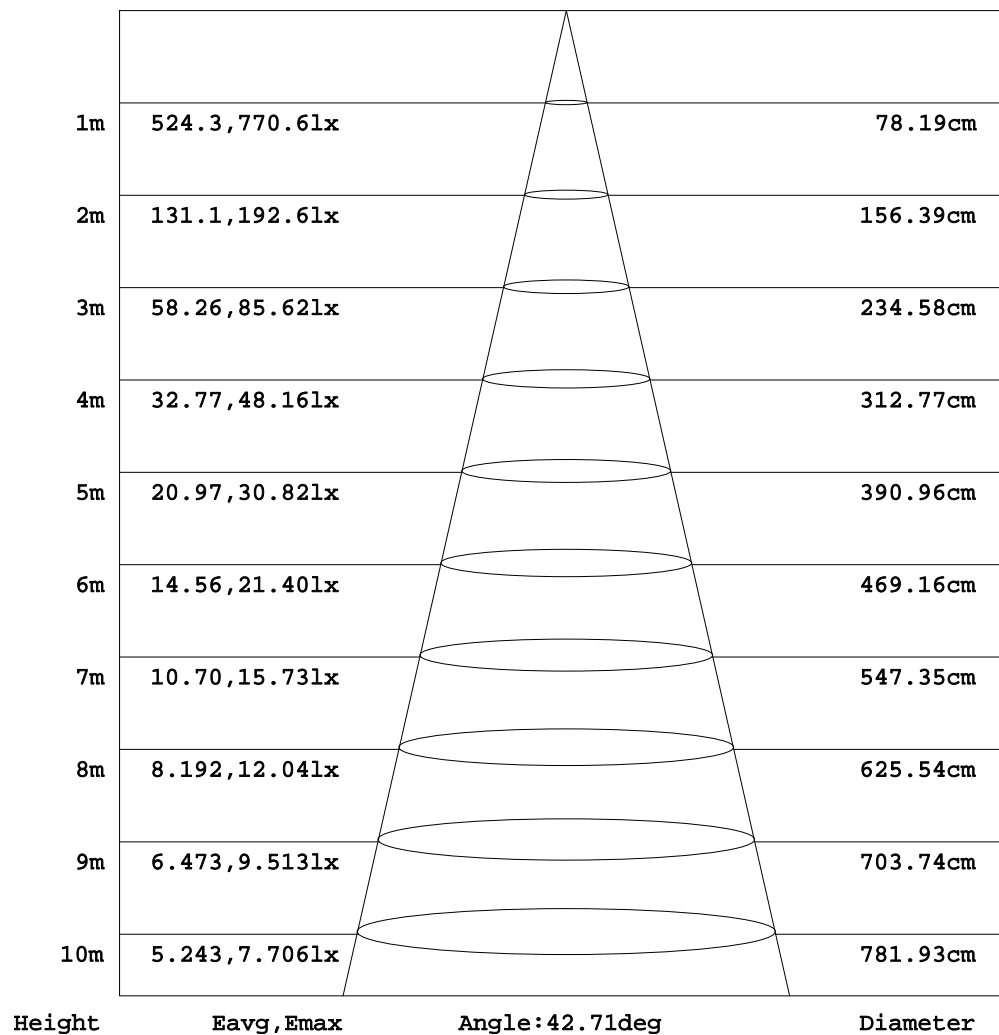
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AAI Figure

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Flux out:255.6 lm



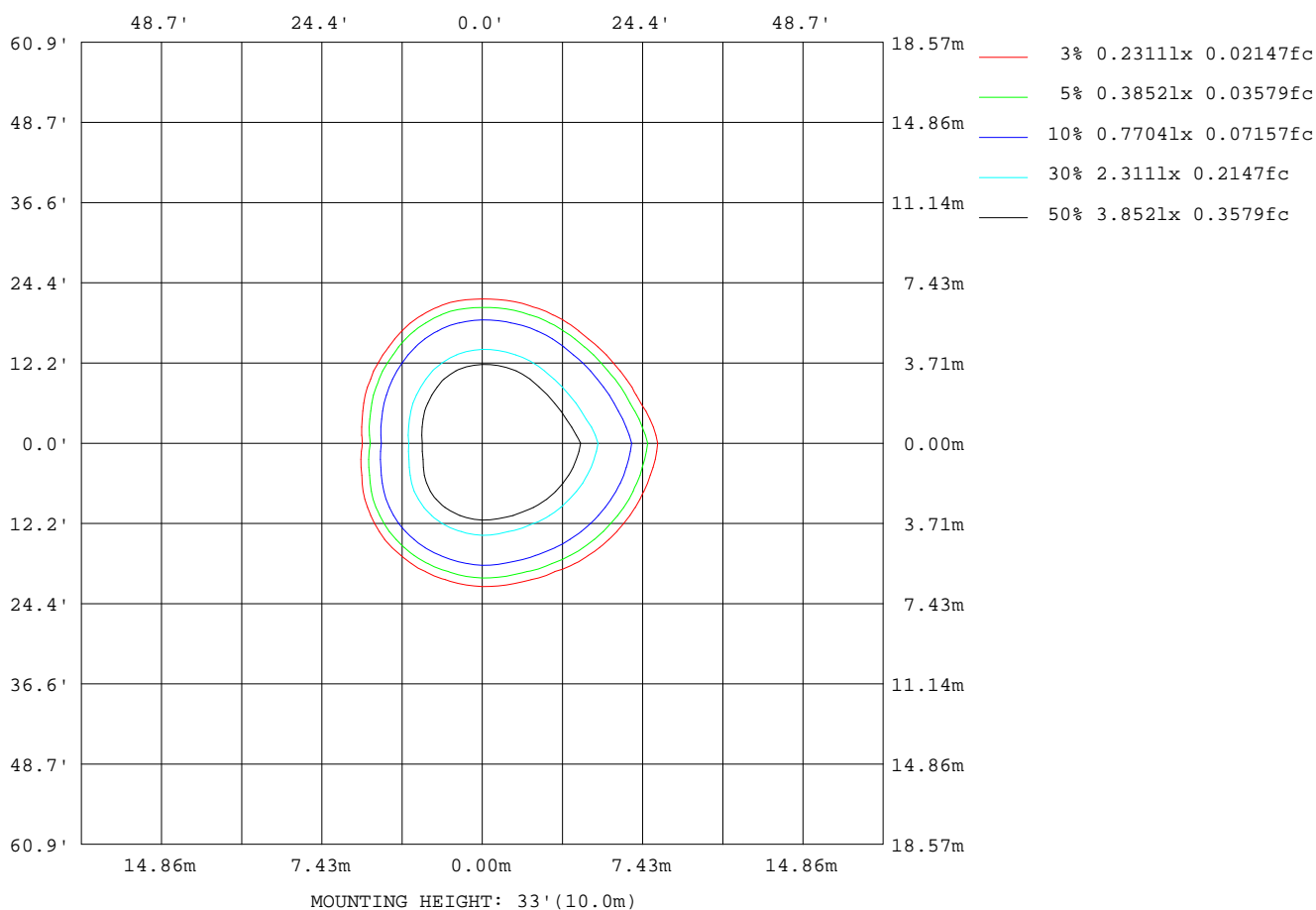
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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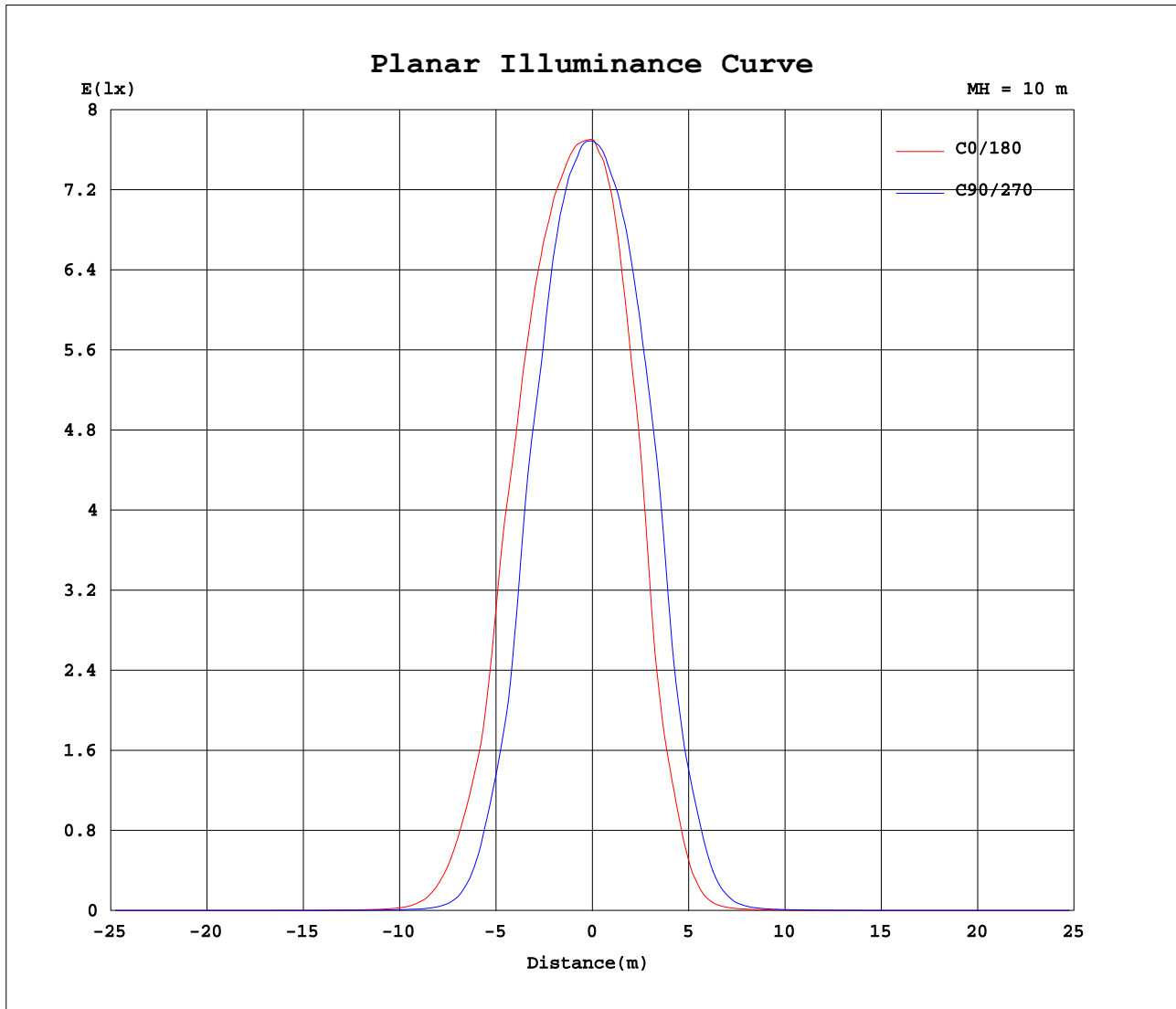
AvgL	cd/m2
L_0~180 (65) av	397
L_0~180 (75) av	176
L_0~180 (85) av	217
L_90~270 (65) av	241
L_90~270 (75) av	123
L_90~270 (85) av	188
L_45 (65) av	260
L_45 (75) av	132
L_45 (85) av	191

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-12

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: 2020-05-12

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:

```