

Low Voltage Track System Module ML26-RS40-8W-927-30



Light Output Ratio:	100.0%	
Luminaire Power:	7.973 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

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

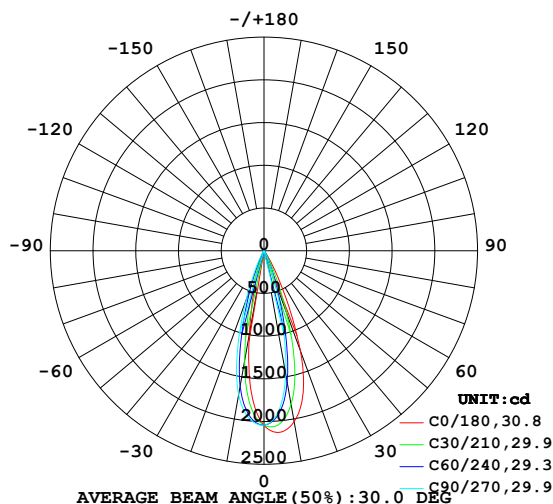
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

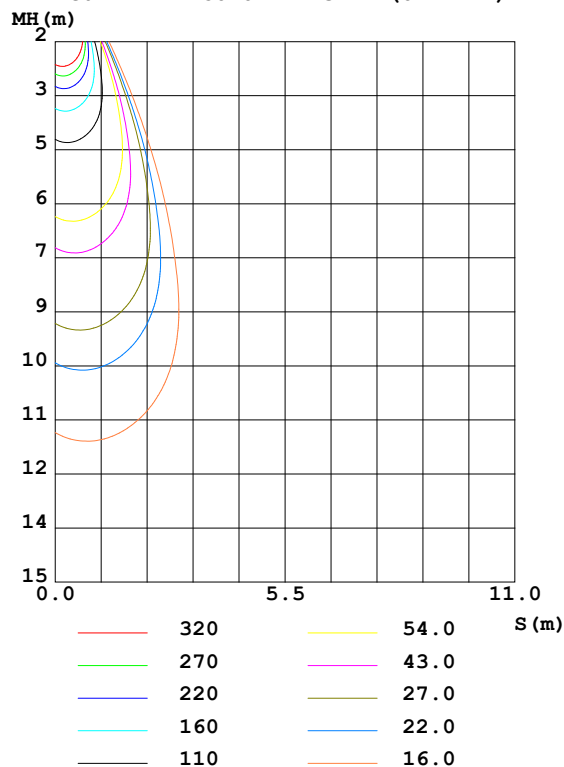
Test:U:48.00V I:0.1661A P:7.973W PF:1.000 Freq:0Hz Lamp Flux:558.923x1 lm		
NAME: ML26-RS40-8W-927-30	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: ϕ 40mm*H70mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.10 lm/W			
MODEL	CITIZEN-2700K	I _{max} (cd)	2133	S/MH (C0/180)	0.34
NOMINAL POWER (W)	8	LOR (%)	100.0	S/MH (C90/270)	0.51
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	558.92	η UP, DN (C0-180)	0.0, 50.7
NOMINAL FLUX (lm)	558.923	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	48	η down (%)	100.0	CIBSE SHR MAX	1.00

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	2032	1699	1469	1424	989.5	1468	1711	1737	0- 10	172.8	172.8	30.9,30.9
20	1243	555.2	325.6	276.2	124.0	328.4	603.7	608.1	10- 20	271.8	444.7	79.6,79.6
30	210.2	73.10	50.45	34.85	14.28	30.58	63.68	59.77	20- 30	95.52	540.2	96.6,96.6
40	25.22	12.50	6.464	3.720	1.046	3.181	8.565	9.607	30- 40	15.99	556.2	99.5,99.5
50	1.824	0.8022	0.5788	0.5195	0.2632	0.5038	0.6689	0.7406	40- 50	2.269	558.4	99.9,99.9
60	0.4296	0.1875	0.1196	0.0828	0.0385	0.1016	0.1426	0.1908	50- 60	0.3327	558.8	100,100
70	0.0795	0.0345	0.0405	0.0314	0.0214	0.0346	0.0299	0.0493	60- 70	0.0780	558.9	100,100
80	0.0322	0.0238	0.0256	0.0291	0.0214	0.0238	0.0192	0.0247	70- 80	0.0320	558.9	100,100
90	0.0214	0.0281	0.3007	0.1928	0.0214	0.2635	0.0256	0.0202	80- 90	0.0387	558.9	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): 557.93 lm

%lum = 99.8%

%lamp = 99.8%

Conical surface Flux(120deg): 558.77 lm

%lum = 100.0%

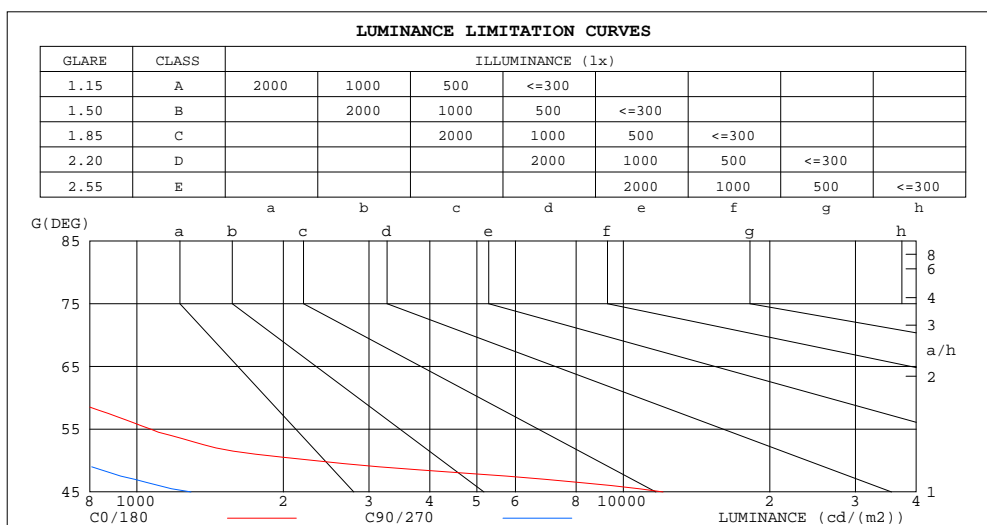
%lamp = 100.0%

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Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:2700K	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	240	240
80	150	120
75	155	101
70	189	97
65	367	112
60	697	195
55	1067	420
50	2303	735
45	12072	1292

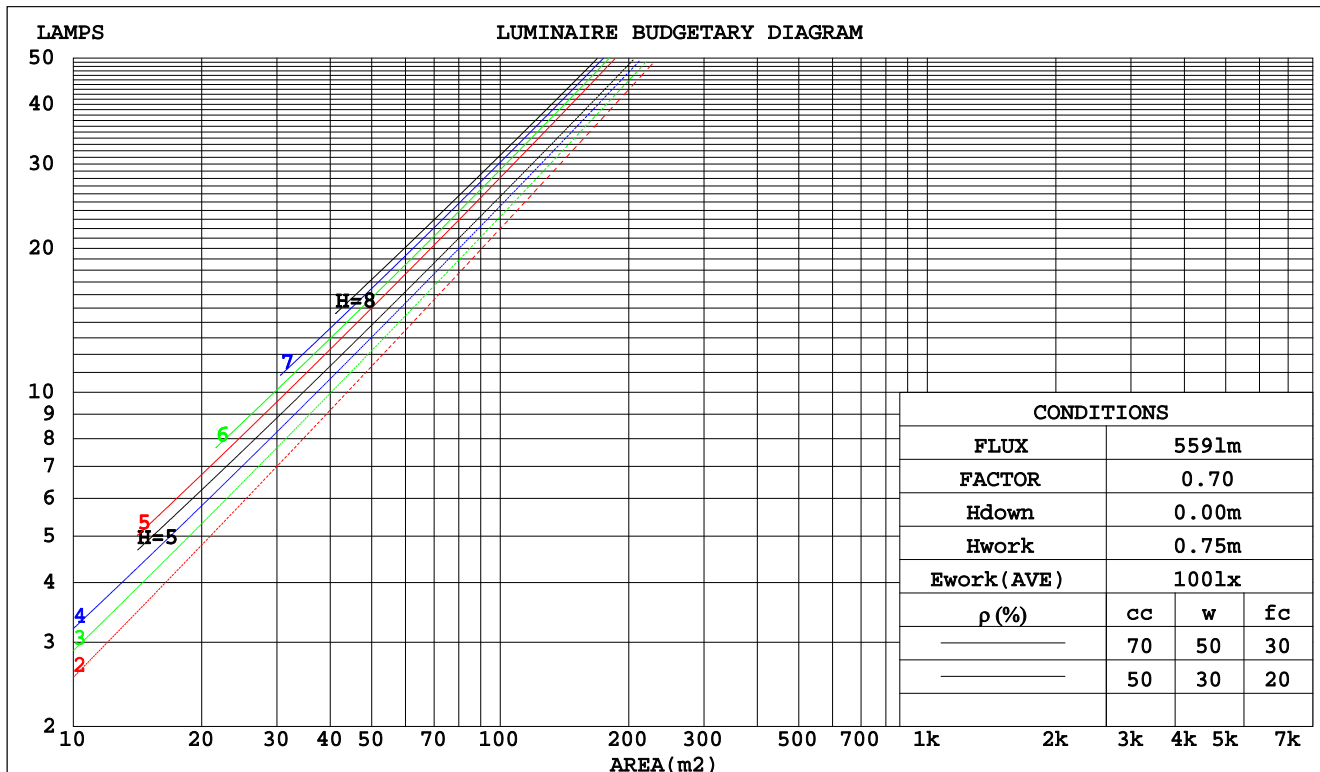
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.99	.96	1.02	.98	.96	.99	.96	.94	.97	.95	.93	.95	.93	.91	.90
4.0	.99	.95	.92	.98	.94	.91	.96	.93	.90	.94	.91	.89	.92	.90	.88	.87
5.0	.95	.91	.88	.94	.90	.88	.93	.89	.87	.91	.88	.86	.90	.87	.85	.84
6.0	.92	.88	.84	.91	.87	.84	.90	.86	.84	.88	.85	.83	.87	.85	.83	.82
7.0	.89	.84	.81	.88	.84	.81	.87	.83	.81	.86	.83	.80	.85	.82	.80	.79
8.0	.86	.82	.79	.85	.81	.79	.84	.81	.78	.84	.80	.78	.83	.80	.78	.77
9.0	.83	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.76	.81	.78	.75	.75
10.0	.81	.77	.74	.80	.76	.74	.80	.76	.74	.79	.76	.74	.78	.75	.73	.72



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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	.138	.078	.025	.131	.075	.024	.119	.068	.022	.107	.062	.020	.097	.056	.018		
2.0	.128	.070	.021	.122	.067	.021	.112	.062	.019	.103	.058	.018	.094	.053	.017		
3.0	.119	.063	.019	.115	.061	.018	.106	.057	.017	.098	.054	.017	.091	.050	.016		
4.0	.112	.058	.017	.108	.057	.017	.101	.053	.016	.094	.051	.015	.088	.048	.015		
5.0	.106	.054	.016	.102	.053	.015	.096	.050	.015	.090	.048	.014	.085	.045	.014		
6.0	.100	.050	.014	.097	.049	.014	.092	.047	.014	.087	.045	.013	.082	.043	.013		
7.0	.095	.047	.013	.093	.046	.013	.088	.045	.013	.084	.043	.013	.080	.042	.012		
8.0	.091	.044	.012	.089	.044	.012	.085	.042	.012	.081	.041	.012	.077	.040	.012		
9.0	.087	.042	.012	.085	.042	.012	.082	.040	.011	.078	.039	.011	.075	.038	.011		
10.0	.084	.040	.011	.082	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011		

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	.168	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.080	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.123	.098	.079	.106	.085	.068	.073	.059	.048	.042	.035	.029	.014	.011	.009	
5.0	.113	.086	.066	.097	.074	.057	.067	.052	.040	.039	.030	.024	.012	.010	.008	
6.0	.104	.076	.055	.089	.066	.048	.062	.046	.034	.036	.027	.020	.012	.009	.007	
7.0	.096	.068	.047	.083	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006	
8.0	.090	.061	.041	.077	.053	.036	.054	.037	.025	.031	.022	.015	.010	.007	.005	
9.0	.084	.055	.035	.073	.048	.031	.050	.034	.022	.029	.020	.013	.009	.007	.004	
10.0	.080	.050	.031	.069	.044	.027	.048	.031	.019	.028	.018	.012	.009	.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:7.973W PF:1.000 Freq:0Hz Lamp Flux:558.923x1 lm										
NAME: ML26-RS40-8W-927-30					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	15.3	16.0	15.5	16.1	16.3	9.2	9.9	9.4	10.0	10.2
3H	15.1	15.8	15.4	15.9	16.1	9.1	9.7	9.3	9.9	10.0
4H	15.1	15.7	15.3	15.9	16.1	9.0	9.6	9.2	9.8	10.0
6H	15.0	15.5	15.3	15.8	16.0	8.9	9.4	9.2	9.7	9.9
8H	14.9	15.5	15.2	15.7	16.0	8.9	9.4	9.1	9.6	9.9
12H	14.9	15.4	15.2	15.7	15.9	8.8	9.3	9.1	9.6	9.8
4H 2H	15.1	15.7	15.3	15.9	16.1	9.0	9.6	9.2	9.8	10.0
3H	14.9	15.4	15.2	15.7	15.9	8.8	9.3	9.1	9.6	9.8
4H	14.8	15.3	15.1	15.6	15.9	8.7	9.2	9.1	9.5	9.8
6H	14.7	15.1	15.1	15.4	15.8	8.6	9.0	9.0	9.4	9.7
8H	14.6	15.0	15.0	15.4	15.7	8.6	9.0	8.9	9.3	9.7
12H	14.6	14.9	15.0	15.3	15.7	8.5	8.9	8.9	9.2	9.6
8H 4H	14.6	15.0	15.0	15.4	15.7	8.6	8.9	8.9	9.3	9.7
6H	14.5	14.9	15.0	15.2	15.7	8.4	8.8	8.9	9.2	9.6
8H	14.5	14.8	14.9	15.2	15.6	8.4	8.7	8.8	9.1	9.5
12H	14.4	14.7	14.9	15.1	15.6	8.3	8.6	8.8	9.0	9.5
12H 4H	14.6	14.9	15.0	15.3	15.7	8.5	8.9	8.9	9.2	9.6
6H	14.5	14.8	14.9	15.2	15.6	8.4	8.7	8.8	9.1	9.5
8H	14.4	14.7	14.9	15.1	15.6	8.3	8.6	8.8	9.0	9.5
Variations with the observer position at spacings:										
S = 1.0H	+ 4.9 / -17.7					+ 3.4 / -15.8				
1.5H	+ 7.4 / -16.5					+ 6.1 / -12.3				
2.0H	+ 9.7 / -13.3					+ 4.5 / - 5.6				

CIE Pub.117, 558.9 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -2.0$)

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UTILIZATION FACTORS TABLE

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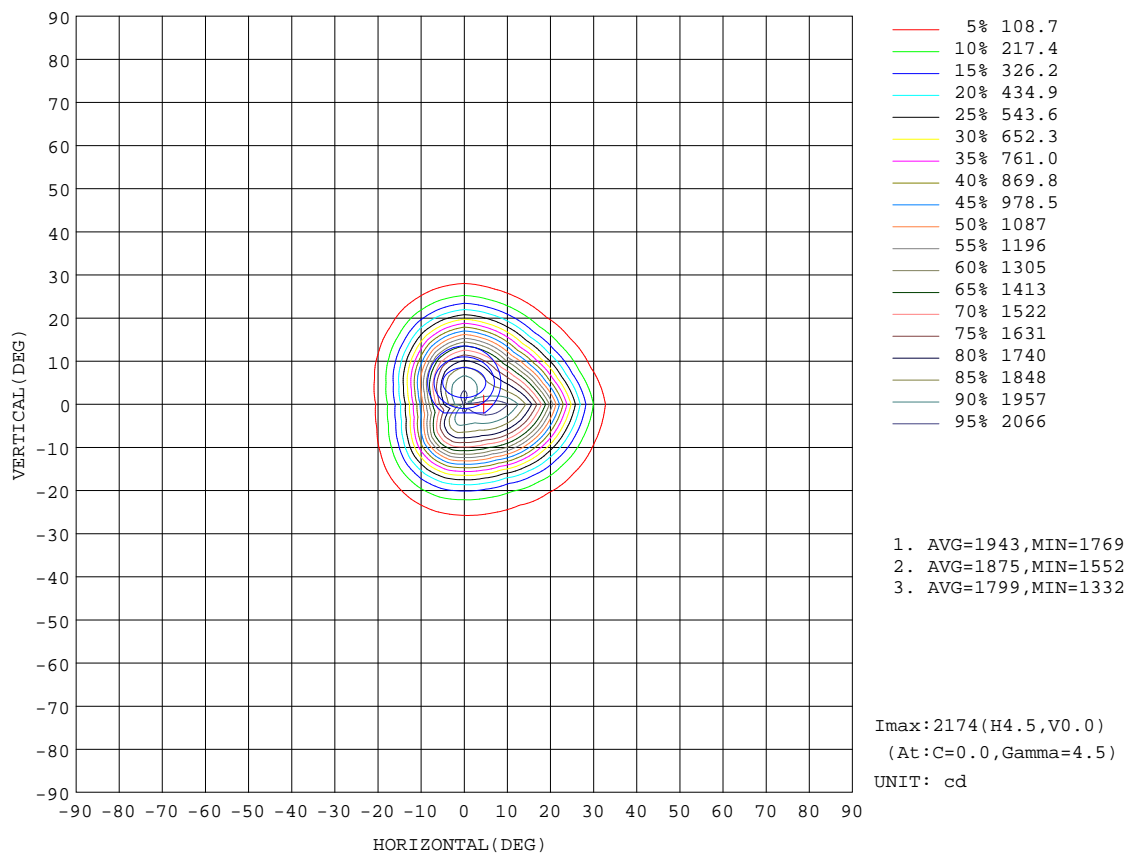
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	86	82	91	85	82	90	85	82	79
0.80	98	93	90	98	93	90	96	92	89	86
1.00	102	97	94	101	97	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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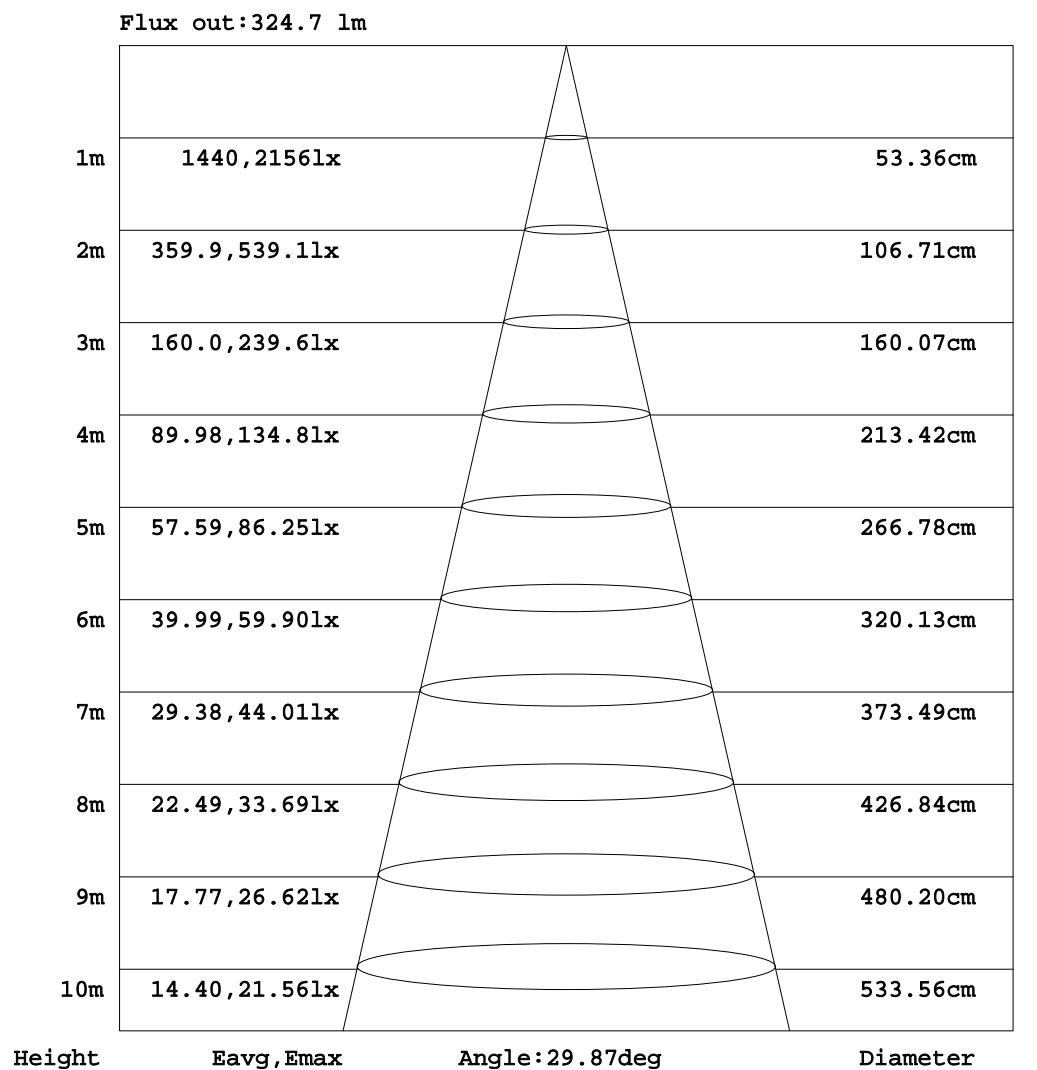


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AAI Figure

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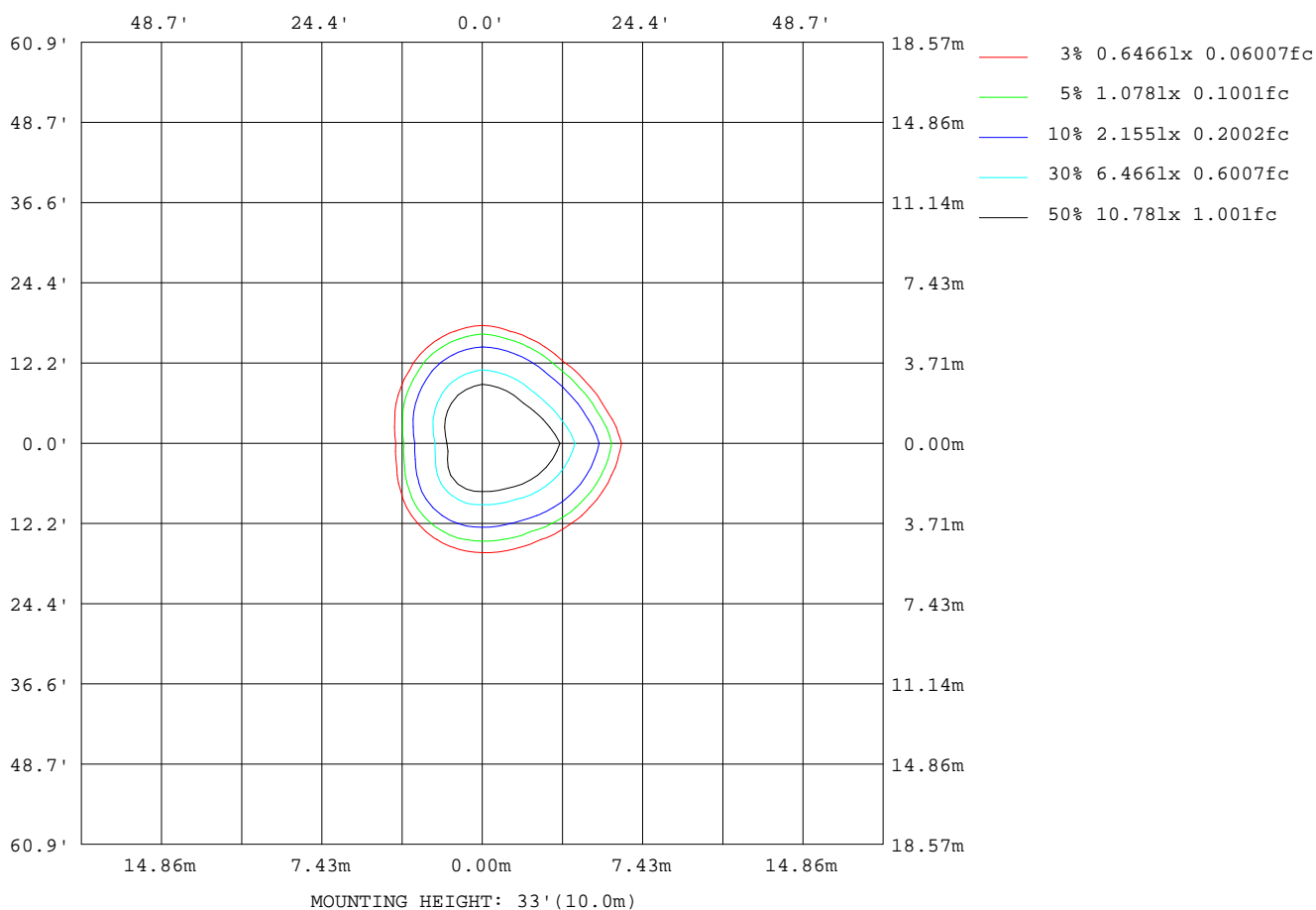
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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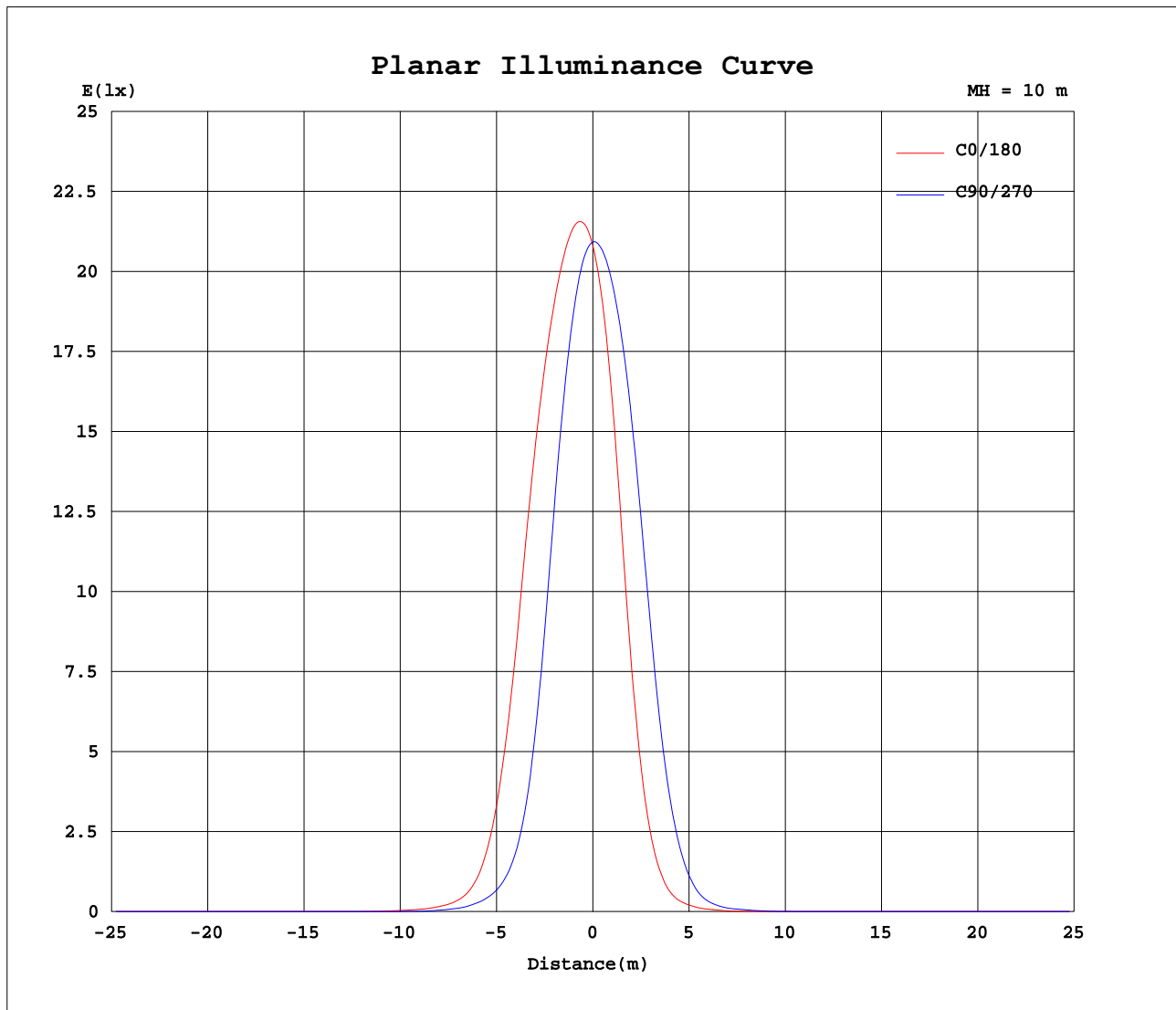
AvgL	cd/m2
L_0~180 (65) av	205
L_0~180 (75) av	109
L_0~180 (85) av	216
L_90~270 (65) av	106
L_90~270 (75) av	79
L_90~270 (85) av	205
L_45 (65) av	115
L_45 (75) av	95
L_45 (85) av	227

Standard: GB/T 29293-2012

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

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:

```