

Low Voltage Track System Module ML26-PS55-14W-940-24

Light Output Ratio:	100.0%	
Luminaire Power:	14.06 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: Payne Cao
Test Date: 2020-04-25

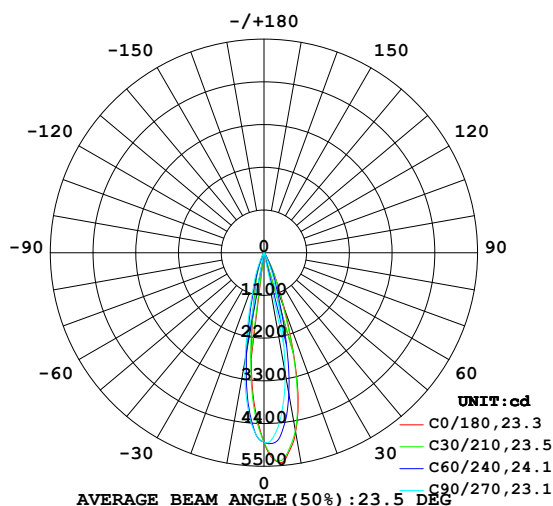
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

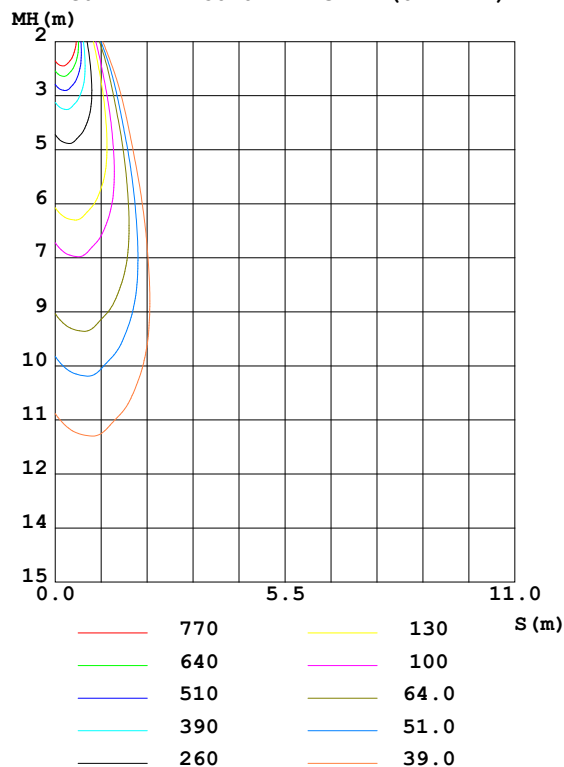
Test:U:48.00V I:0.2930A P:14.06W PF:1.000 Freq:0Hz Lamp Flux:1076.23x1 lm		
NAME: ML26-PS55-14W-940-24	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: \varnothing 55mm*H180mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.52 lm/W			
MODEL	CITIZEN-4000K	I _{max} (cd)	5525	S/MH (C0/180)	0.27
NOMINAL POWER (W)	14	LOR (%)	100.0	S/MH (C90/270)	0.38
RATED VOLTAGE (V)	48	TOTAL FLUX (lm)	1076.2	η UP,DN (C0-180)	0.0,64.4
NOMINAL FLUX (lm)	1076.23	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,35.6
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)



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	4695	4530	3153	3917	1682	1788	2796	2079	0- 10	375.6	375.6	34.9, 34.9
20	1544	1350	731.0	968.5	401.0	431.9	651.0	542.0	10- 20	473.4	849.0	78.9, 78.9
30	226.9	190.3	115.7	135.2	85.67	79.49	96.80	91.94	20- 30	161.2	1010	93.9, 93.9
40	58.00	51.77	35.17	40.13	19.21	19.92	30.26	26.11	30- 40	42.99	1053	97.9, 97.9
50	15.37	13.38	10.29	11.78	8.061	8.056	9.869	9.362	40- 50	14.64	1068	99.2, 99.2
60	6.821	5.628	3.355	4.611	1.712	1.849	3.032	2.410	50- 60	6.171	1074	99.8, 99.8
70	1.069	0.9613	0.7035	0.7894	0.4991	0.5513	0.6607	0.6046	60- 70	1.661	1076	99.9, 99.9
80	0.3382	0.2784	0.2079	0.2357	0.1048	0.1417	0.1684	0.1561	70- 80	0.4340	1076	100, 100
90	0.0822	0.0619	0.0368	0.0390	0.0365	0.0310	0.0303	0.0325	80- 90	0.1104	1076	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): 1062.4 lm

%lum = 98.7%

%lamp = 98.7%

Conical surface Flux(120deg): 1074 lm

%lum = 99.8%

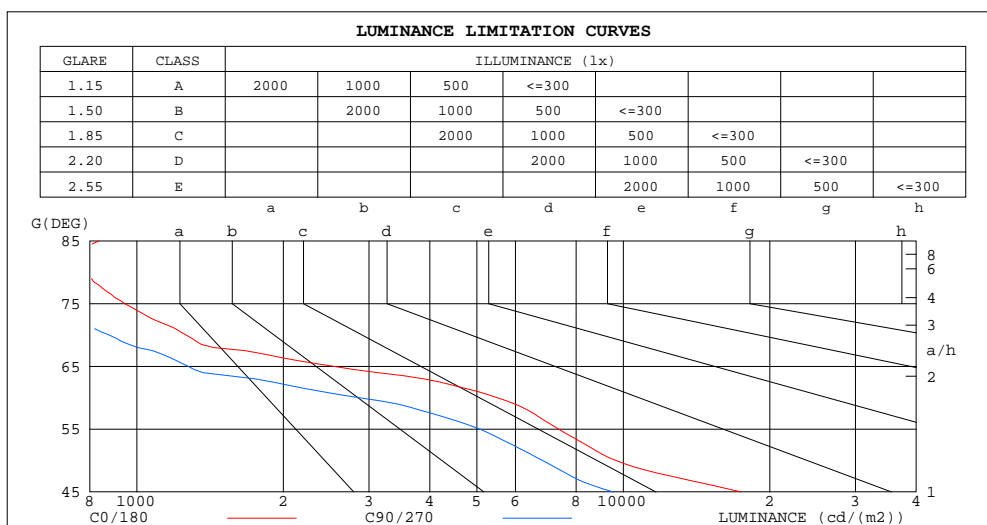
%lamp = 99.8%

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Humidity: 58%
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Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:4000K	DIM.: ϕ 55mm*H180mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	836	487
80	786	510
75	944	648
70	1262	876
65	2535	1274
60	5505	2859
55	7359	5065
50	9651	6820
45	17471	9533

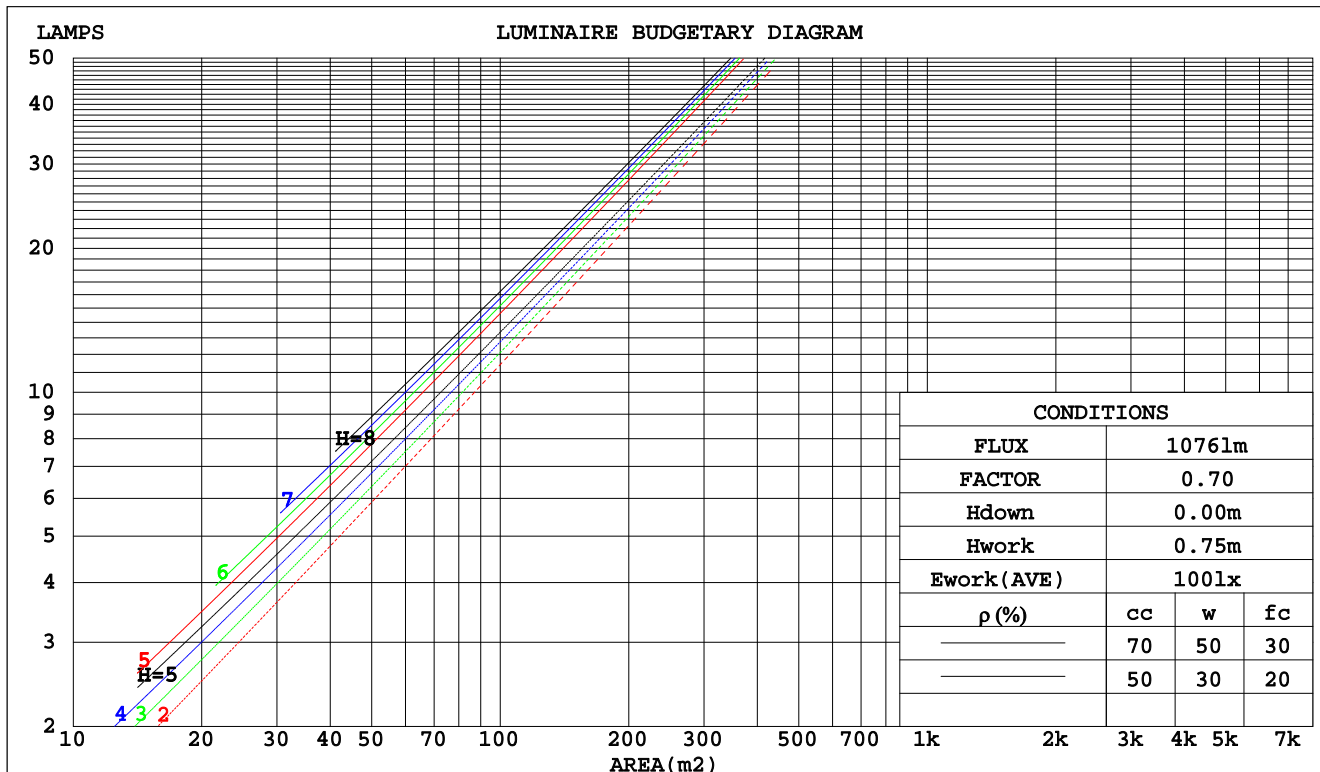
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:4000K	DIM.: $\phi 55\text{mm} \times \text{H}180\text{mm}$	
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	1.13	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	.96
2.0	1.07	1.04	1.02	1.06	1.03	1.01	1.03	1.00	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.99	.96	1.01	.98	.95	.99	.96	.94	.97	.94	.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	.87	.93	.89	.87	.91	.88	.86	.90	.87	.85	.84
6.0	.92	.87	.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	.79	.76	.81	.78	.76	.81	.78	.76	.75
10.0	.81	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.74	.79	.76	.74	.73



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WEC AND CCEC

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MFR.: NEKO LIGHTING AG		

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	.079	.025	.132	.075	.024	.119	.068	.022	.108	.062	.020	.097	.056	.018		
2.0	.128	.070	.022	.123	.068	.021	.113	.063	.019	.103	.058	.018	.095	.054	.017		
3.0	.120	.064	.019	.115	.062	.019	.107	.058	.018	.099	.054	.017	.092	.051	.016		
4.0	.112	.058	.017	.109	.057	.017	.101	.054	.016	.095	.051	.015	.088	.048	.015		
5.0	.106	.054	.016	.103	.053	.015	.097	.050	.015	.091	.048	.014	.085	.046	.014		
6.0	.100	.050	.014	.097	.049	.014	.092	.047	.014	.087	.045	.013	.083	.043	.013		
7.0	.095	.047	.013	.093	.046	.013	.088	.045	.013	.084	.043	.013	.080	.041	.012		
8.0	.091	.044	.012	.089	.044	.012	.085	.042	.012	.081	.041	.012	.077	.040	.012		
9.0	.087	.042	.012	.085	.041	.012	.081	.040	.011	.078	.039	.011	.075	.038	.011		
10.0	.083	.040	.011	.081	.039	.011	.078	.038	.011	.075	.037	.011	.072	.036	.010		

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	.136	.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	.028	.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	.053	.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	.079	.050	.031	.068	.044	.027	.047	.031	.019	.028	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Payne Cao
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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:0.2930A P:14.06W PF:1.000 Freq:0Hz Lamp Flux:1076.23x1 lm										
NAME: ML26-PS55-14W-940-24					TYPE:Low Voltage Track System Module					
SPEC.:4000K					DIM.: ϕ 55mm*H180mm					
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	13.9	14.6	14.1	14.7	14.9	11.7	12.4	11.9	12.5	12.7
3H	13.8	14.4	14.1	14.6	14.8	11.6	12.2	11.8	12.4	12.6
4H	13.8	14.3	14.0	14.5	14.8	11.5	12.1	11.8	12.3	12.5
6H	13.7	14.2	14.0	14.5	14.7	11.4	12.0	11.7	12.2	12.4
8H	13.6	14.2	13.9	14.4	14.7	11.4	11.9	11.7	12.2	12.4
12H	13.6	14.1	13.9	14.4	14.6	11.3	11.9	11.6	12.1	12.4
4H 2H	13.8	14.4	14.0	14.6	14.8	11.6	12.2	11.9	12.4	12.6
3H	13.7	14.2	14.0	14.4	14.7	11.5	12.0	11.8	12.3	12.5
4H	13.6	14.0	13.9	14.3	14.6	11.4	11.9	11.7	12.2	12.5
6H	13.5	13.9	13.8	14.2	14.6	11.3	11.7	11.7	12.0	12.4
8H	13.4	13.8	13.8	14.2	14.5	11.3	11.6	11.6	12.0	12.4
12H	13.4	13.7	13.8	14.1	14.5	11.2	11.6	11.6	11.9	12.3
8H 4H	13.4	13.8	13.8	14.2	14.5	11.3	11.6	11.6	12.0	12.4
6H	13.3	13.6	13.7	14.0	14.4	11.2	11.5	11.6	11.9	12.3
8H	13.3	13.6	13.7	14.0	14.4	11.1	11.4	11.5	11.8	12.2
12H	13.2	13.5	13.7	13.9	14.4	11.0	11.3	11.5	11.7	12.2
12H 4H	13.4	13.7	13.8	14.1	14.5	11.2	11.6	11.6	11.9	12.3
6H	13.3	13.5	13.7	14.0	14.4	11.1	11.4	11.5	11.8	12.2
8H	13.2	13.5	13.7	13.9	14.4	11.0	11.3	11.5	11.7	12.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.4 / - 5.2					+ 2.1 / - 5.6				
1.5H	+ 4.0 / - 3.5					+ 3.7 / - 3.4				
2.0H	+ 4.3 / - 4.6					+ 2.7 / - 4.4				

CIE Pub.117, 1076 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.3$)

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γ Range: 0 - 90DEG
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Humidity:58%
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Remarks:

UTILIZATION FACTORS TABLE

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SPEC.:4000K	DIM.: $\varnothing 55\text{mm} \times \text{H}180\text{mm}$	
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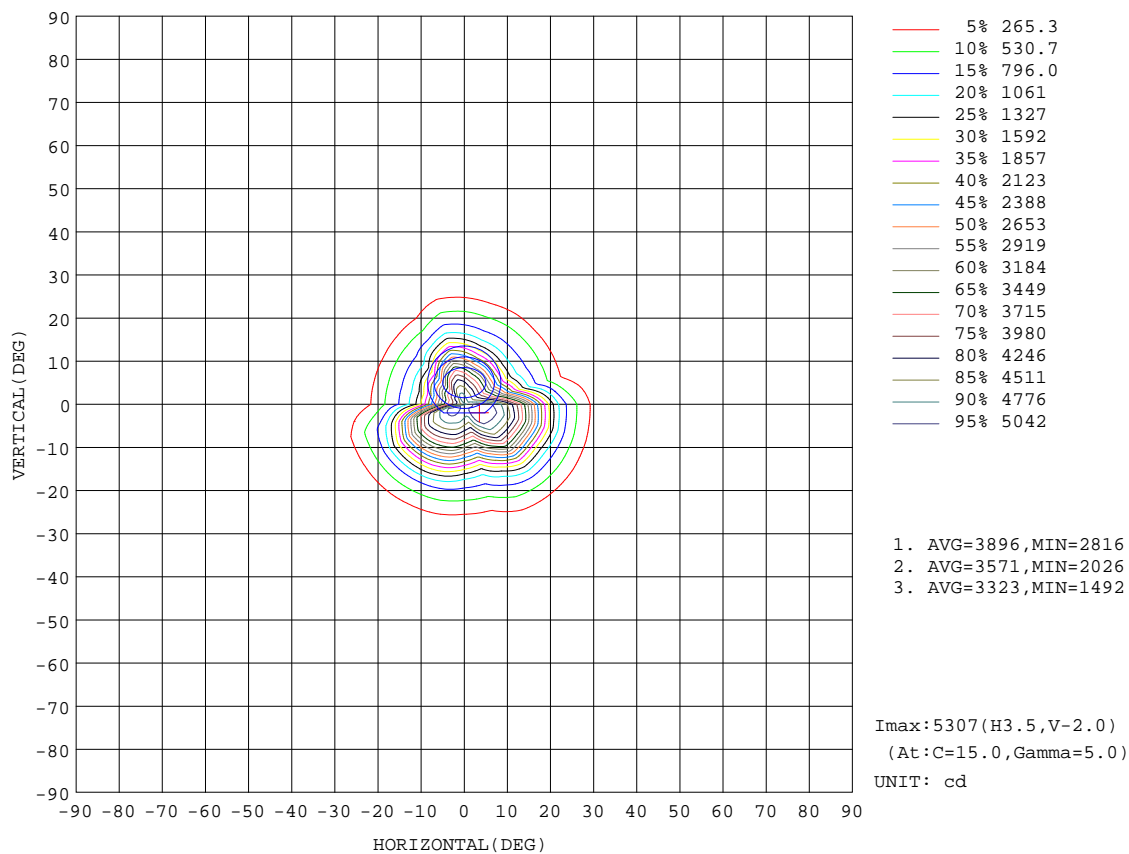
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	90	84	81	89	84	81	77
0.80	97	92	89	97	92	88	95	91	88	85
1.00	101	96	93	100	96	92	99	95	92	88
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	116	114	112	113	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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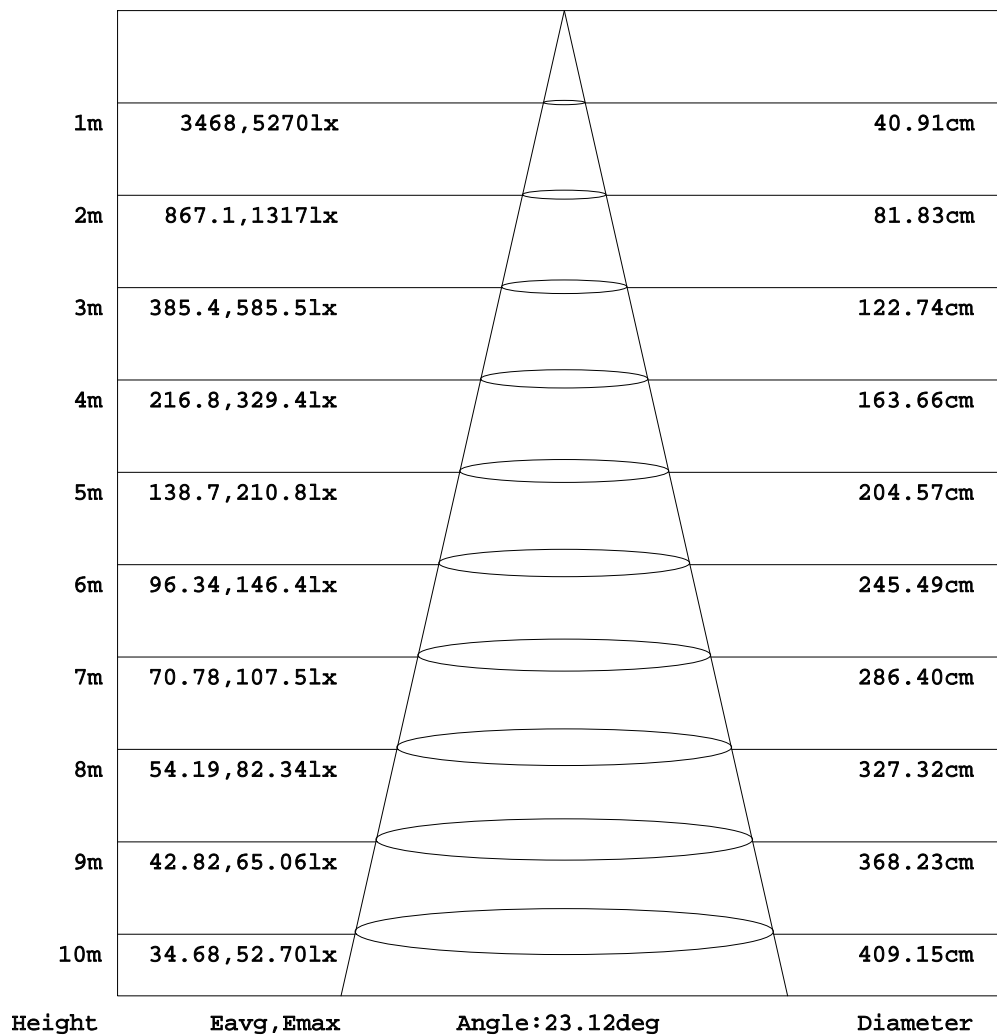
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AAI Figure

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Flux out:492.3 lm



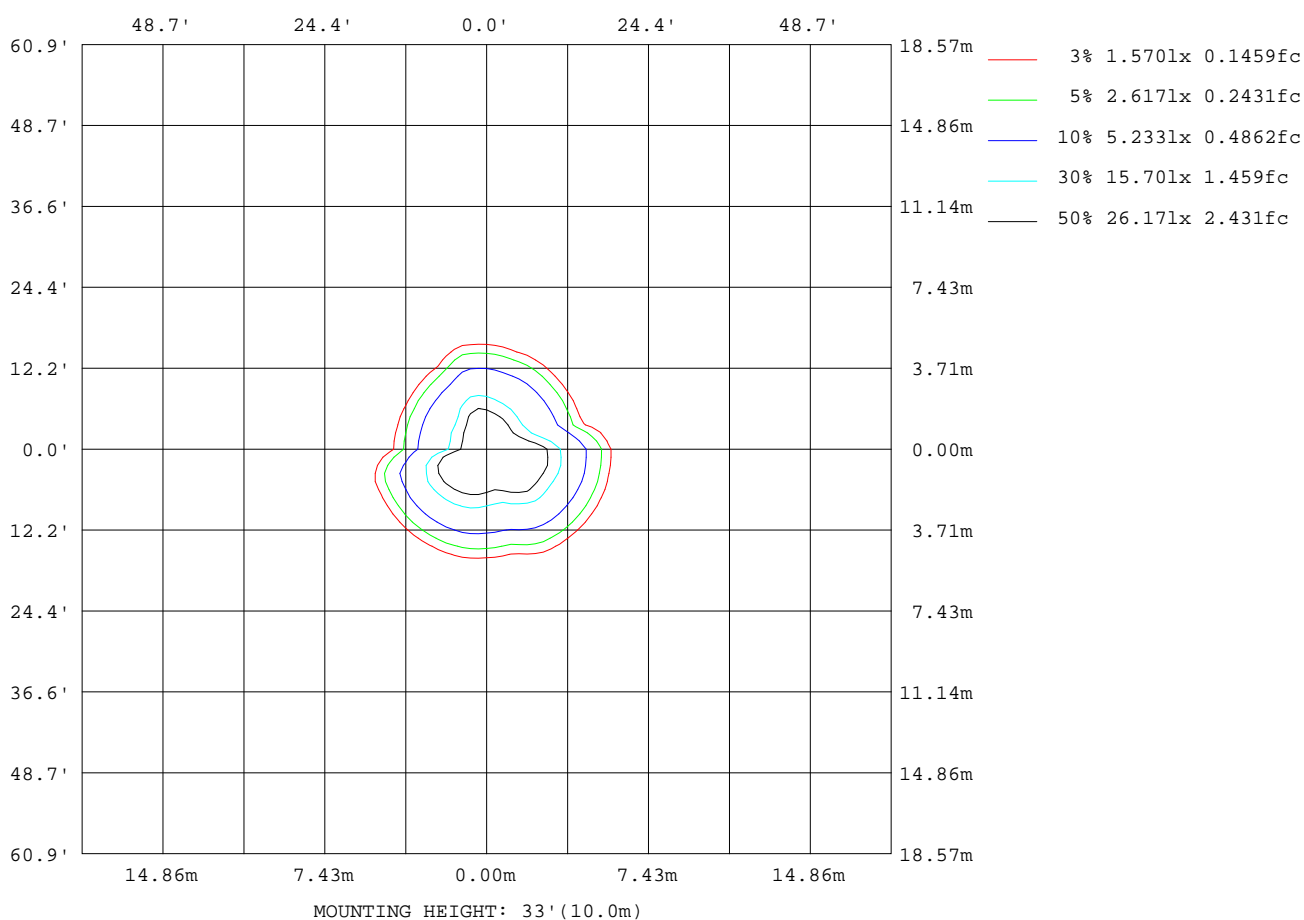
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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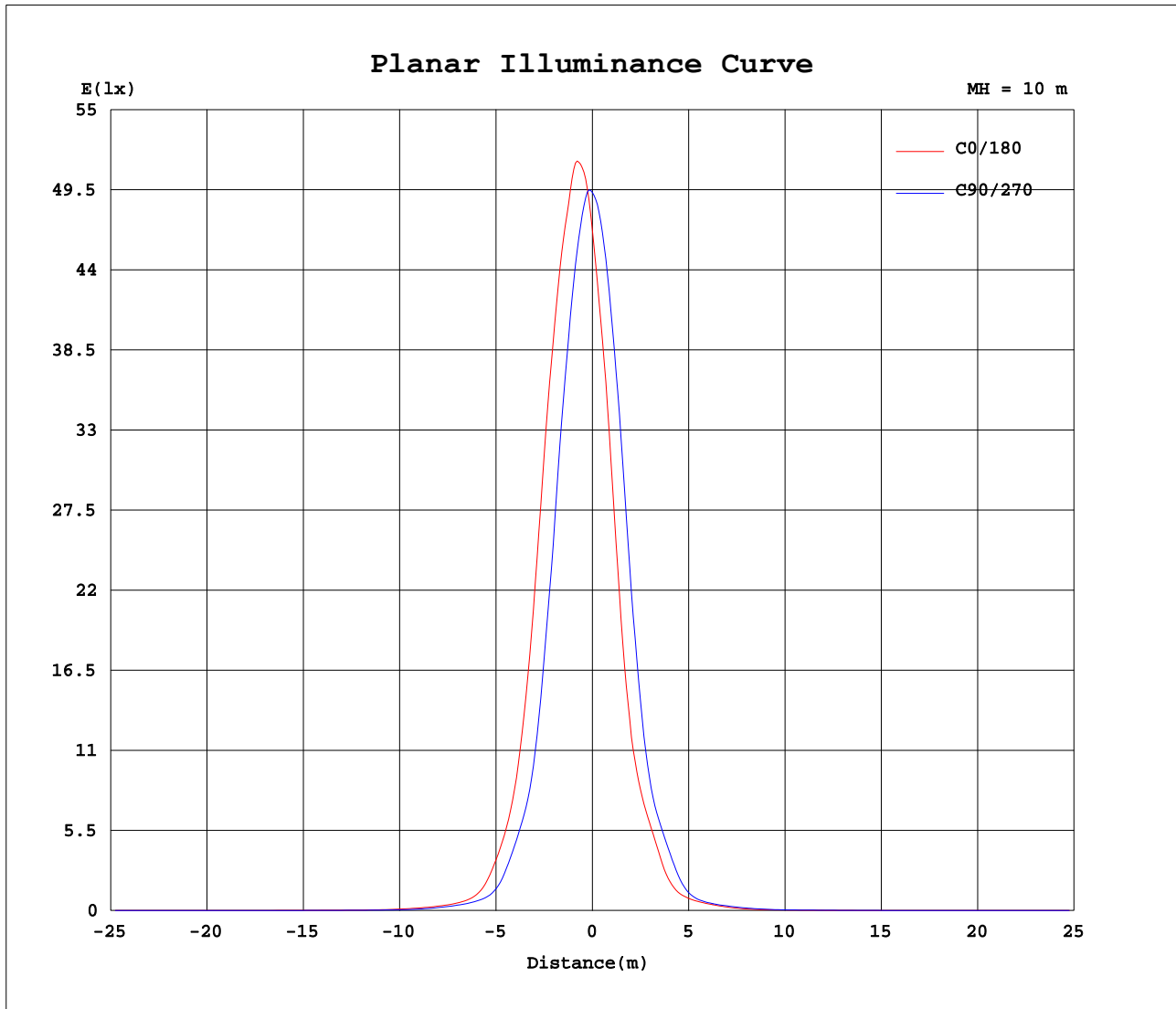
AvgL	cd/m2
L_0~180 (65) av	1791
L_0~180 (75) av	695
L_0~180 (85) av	519
L_90~270 (65) av	1217
L_90~270 (75) av	603
L_90~270 (85) av	397
L_45 (65) av	1510
L_45 (75) av	640
L_45 (85) av	434

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Payne Cao
Test Date:2020-04-25

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: Payne Cao
Test Date: 2020-04-25

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:

```