

Low Voltage Track System Module ML26-GL1120-26W-930



Light Output Ratio:	100.0%	
Luminaire Power:	26.35 W	
SHR Nominal:	1.25	Calculated using the TM5
SHR Maximum:	1.35	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason Long
Test Date: 2020-04-02

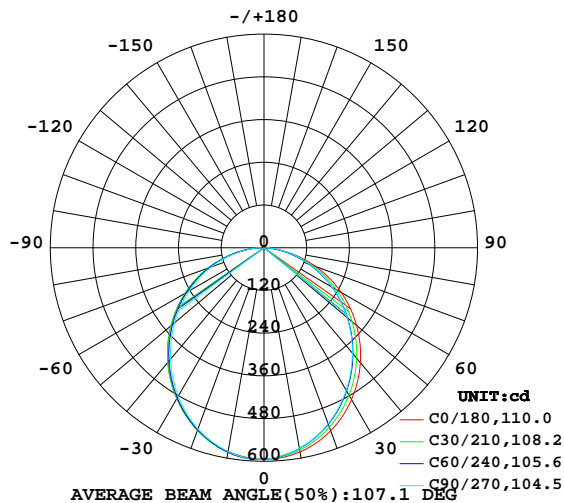
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

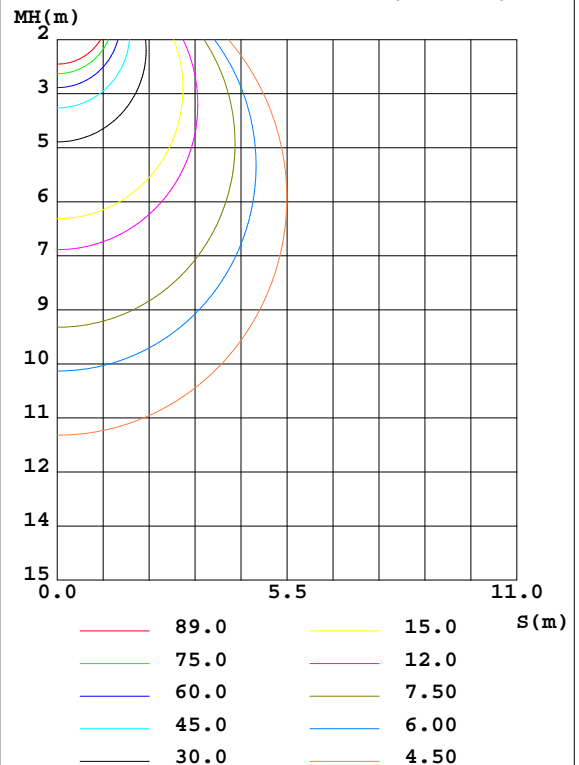
Test:U:48.00V I:0.5490A P:26.35W PF:1.000 Freq:0Hz Lamp Flux:1609.25x1 lm		
NAME: ML26-GL1120-26W-930	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: L1120mm*W22mm*H43mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 61.07 lm/W			
MODEL	SAMSUNG-3000K	I _{max} (cd)	594.8	S/MH(C0/180)	1.23
NOMINAL POWER(W)	26	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	1609.3	η UP,DN(C0-180)	0.0,48.7
NOMINAL FLUX(lm)	1609.25	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	48	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-04-02

γ Range: 0 - 90DEG
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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	582.4	574.8	571.9	576.7	581.0	583.4	581.6	580.7	0- 10	55.98	55.98	3.48,3.48
20	547.3	532.4	526.3	533.9	544.9	544.5	541.9	542.5	10- 20	158.4	214.4	13.3,13.3
30	492.0	471.4	462.1	474.6	489.7	488.0	482.0	484.1	20- 30	235.7	450.0	28,28
40	421.2	397.1	386.3	402.1	420.2	417.2	408.7	411.4	30- 40	278.4	728.4	45.3,45.3
50	339.4	315.0	304.8	322.2	340.8	337.9	327.6	330.0	40- 50	283.8	1012	62.9,62.9
60	249.8	227.8	220.5	237.6	254.9	253.2	243.4	242.9	50- 60	254.1	1266	78.7,78.7
70	154.7	138.2	136.0	150.5	164.1	165.9	157.7	152.8	60- 70	194.6	1461	90.8,90.8
80	61.42	53.20	56.58	66.27	73.43	79.57	71.67	61.65	70- 80	113.9	1575	97.9,97.9
90	0.9603	2.408	5.202	6.339	6.914	11.81	11.78	4.727	80- 90	34.35	1609	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): 871.95 lm

%lum = 54.2%

%lamp = 54.2%

Conical surface Flux(120deg): 1266.4 lm

%lum = 78.7%

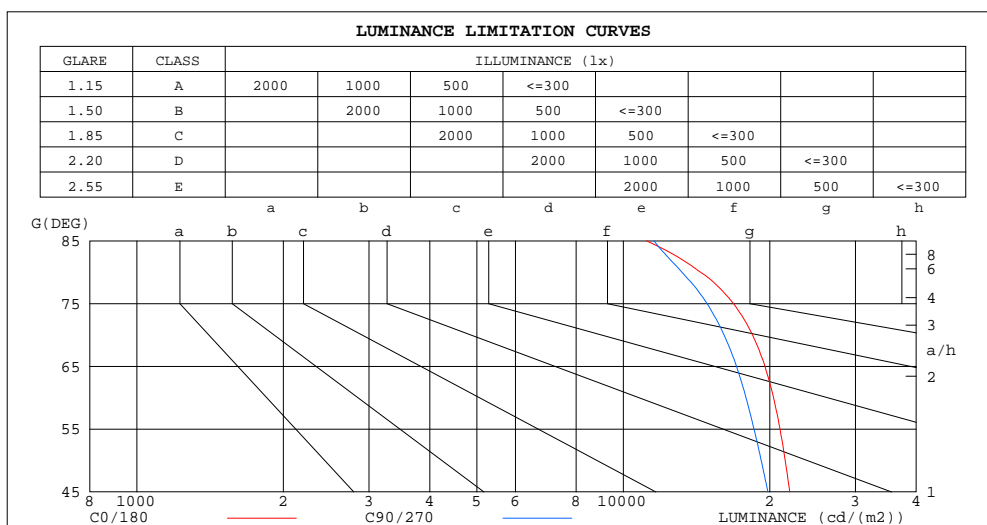
%lamp = 78.7%

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

LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.: L1120mm*W22mm*H43mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	11162	11568
80	14414	13199
75	16841	14864
70	18436	16110
65	19554	17091
60	20357	17866
55	20991	18562
50	21517	19207
45	21982	19821

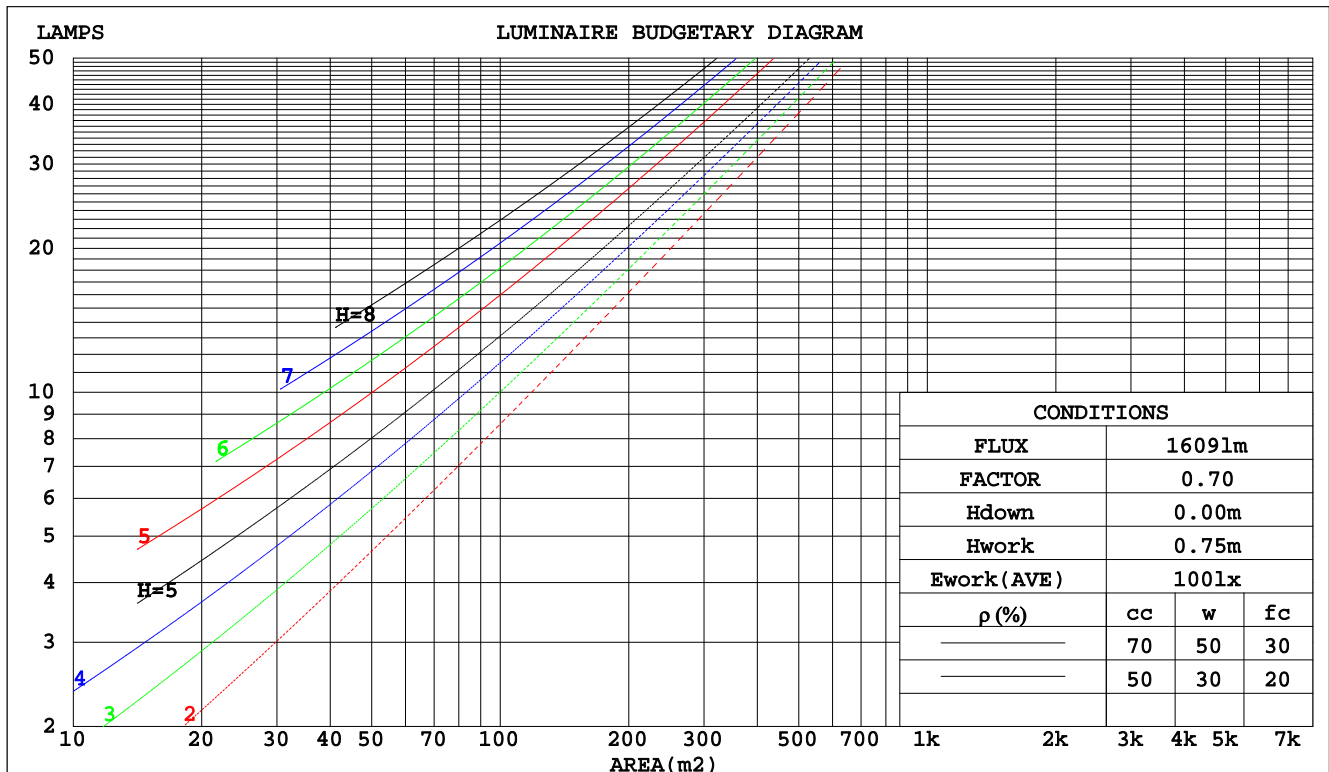
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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						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	.00
1.0	1.04	.99	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.90	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.70
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.70	.62	.55	.69	.61	.54	.67	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.46	.40	.51	.45	.40	.38
7.0	.51	.43	.37	.51	.42	.36	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.38	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.36	.32	.30
9.0	.43	.35	.29	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.26	.37	.31	.26	.36	.31	.26	.24



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WEC AND CCEC

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pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.311	.177	.056	.304	.173	.055	.291	.167	.053	.279	.161	.052	.267	.155	.050	
2.0	.292	.160	.049	.285	.157	.048	.274	.152	.047	.263	.147	.046	.253	.143	.045	
3.0	.269	.143	.043	.264	.141	.043	.254	.137	.042	.244	.134	.041	.235	.130	.040	
4.0	.248	.129	.038	.244	.127	.038	.234	.124	.037	.226	.121	.037	.218	.118	.036	
5.0	.230	.117	.034	.225	.116	.034	.217	.113	.033	.210	.111	.033	.202	.108	.033	
6.0	.213	.107	.031	.209	.106	.030	.202	.103	.030	.195	.101	.030	.189	.099	.029	
7.0	.198	.098	.028	.195	.097	.028	.188	.095	.027	.182	.093	.027	.176	.092	.027	
8.0	.185	.090	.025	.182	.090	.025	.176	.088	.025	.171	.086	.025	.166	.085	.025	
9.0	.173	.084	.023	.171	.083	.023	.165	.082	.023	.161	.080	.023	.156	.079	.023	
10.0	.163	.078	.022	.161	.078	.022	.156	.076	.022	.151	.075	.021	.147	.074	.021	

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.180	.156	.134	.154	.134	.116	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.172	.132	.098	.148	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.074	.141	.099	.064	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.064	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-04-02

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:0.5490A P:26.35W PF:1.000 Freq:0Hz Lamp Flux:1609.25x1 lm										
NAME: ML26-GL1120-26W-930					TYPE:Low Voltage Track System Module					
SPEC.:3000K					DIM.: L1120mm*W22mm*H43mm					
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	21.6	23.1	21.9	23.3	23.6	21.0	22.6	21.3	22.8	23.0
3H	23.2	24.6	23.5	24.8	25.0	22.5	23.9	22.8	24.1	24.4
4H	23.7	25.1	24.1	25.3	25.6	23.0	24.4	23.4	24.6	24.9
6H	24.1	25.4	24.5	25.7	26.0	23.4	24.7	23.8	25.0	25.2
8H	24.3	25.5	24.6	25.7	26.0	23.6	24.8	23.9	25.1	25.3
12H	24.3	25.5	24.7	25.8	26.1	23.6	24.8	24.0	25.1	25.4
4H 2H	22.1	23.5	22.4	23.7	24.0	21.7	23.0	22.0	23.3	23.5
3H	23.8	25.0	24.2	25.3	25.6	23.3	24.4	23.6	24.7	25.0
4H	24.5	25.6	24.9	25.9	26.3	23.9	25.0	24.3	25.3	25.7
6H	25.1	26.0	25.5	26.4	26.7	24.4	25.4	24.8	25.7	26.1
8H	25.2	26.1	25.6	26.5	26.8	24.6	25.5	25.0	25.9	26.2
12H	25.3	26.1	25.7	26.5	26.9	24.7	25.5	25.1	25.9	26.3
8H 4H	24.7	25.6	25.1	26.0	26.4	24.2	25.1	24.6	25.4	25.8
6H	25.4	26.1	25.8	26.5	26.9	24.8	25.5	25.3	26.0	26.4
8H	25.6	26.2	26.1	26.7	27.1	25.0	25.7	25.5	26.1	26.6
12H	25.7	26.3	26.2	26.8	27.2	25.2	25.8	25.7	26.2	26.7
12H 4H	24.7	25.5	25.1	25.9	26.3	24.2	25.0	24.6	25.4	25.8
6H	25.4	26.0	25.9	26.5	26.9	24.9	25.5	25.3	25.9	26.4
8H	25.7	26.2	26.1	26.7	27.1	25.1	25.7	25.6	26.1	26.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.2				

CIE Pub.117, 1609 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.7$)

C Range: 0 - 360DEG
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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:

UTILIZATION FACTORS TABLE

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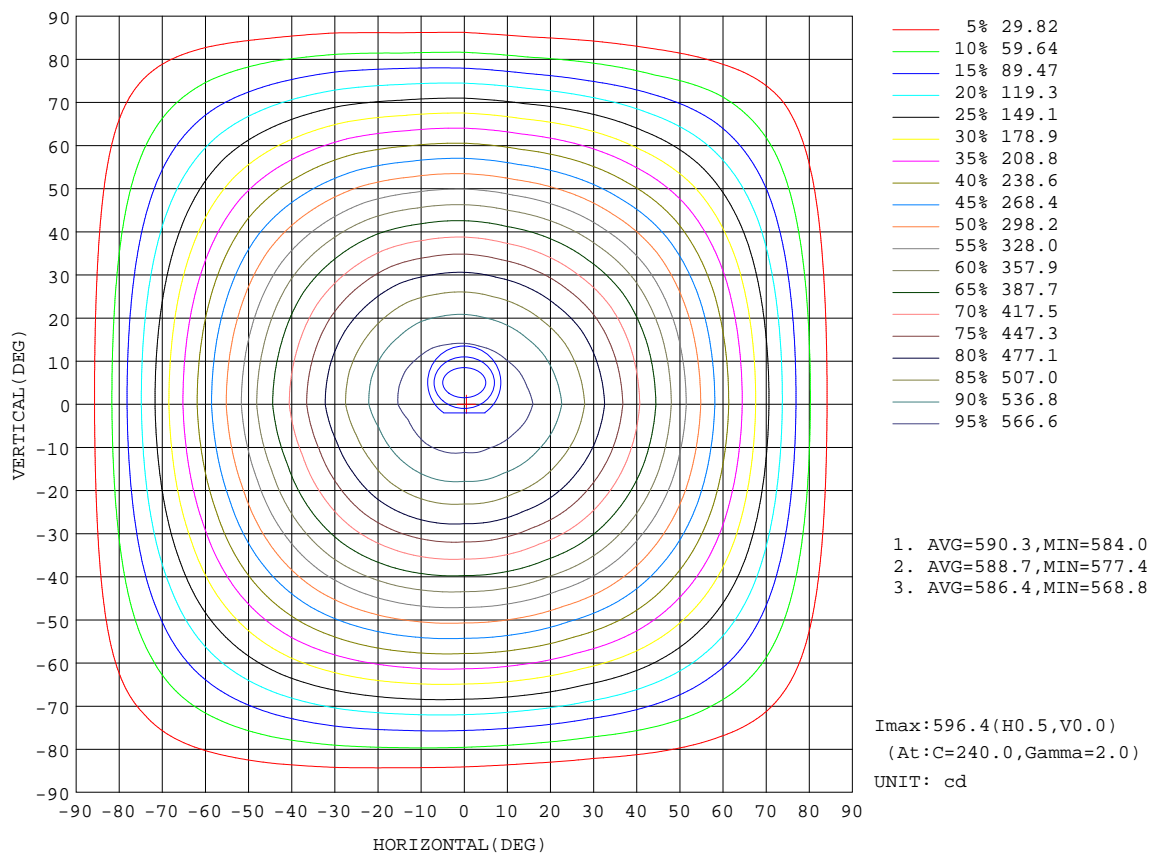
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	46	39	33
0.80	68	56	49	67	56	49	65	55	48	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	65	79	71	64	57
1.50	88	78	71	87	77	71	84	76	70	62
2.00	95	86	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	94	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
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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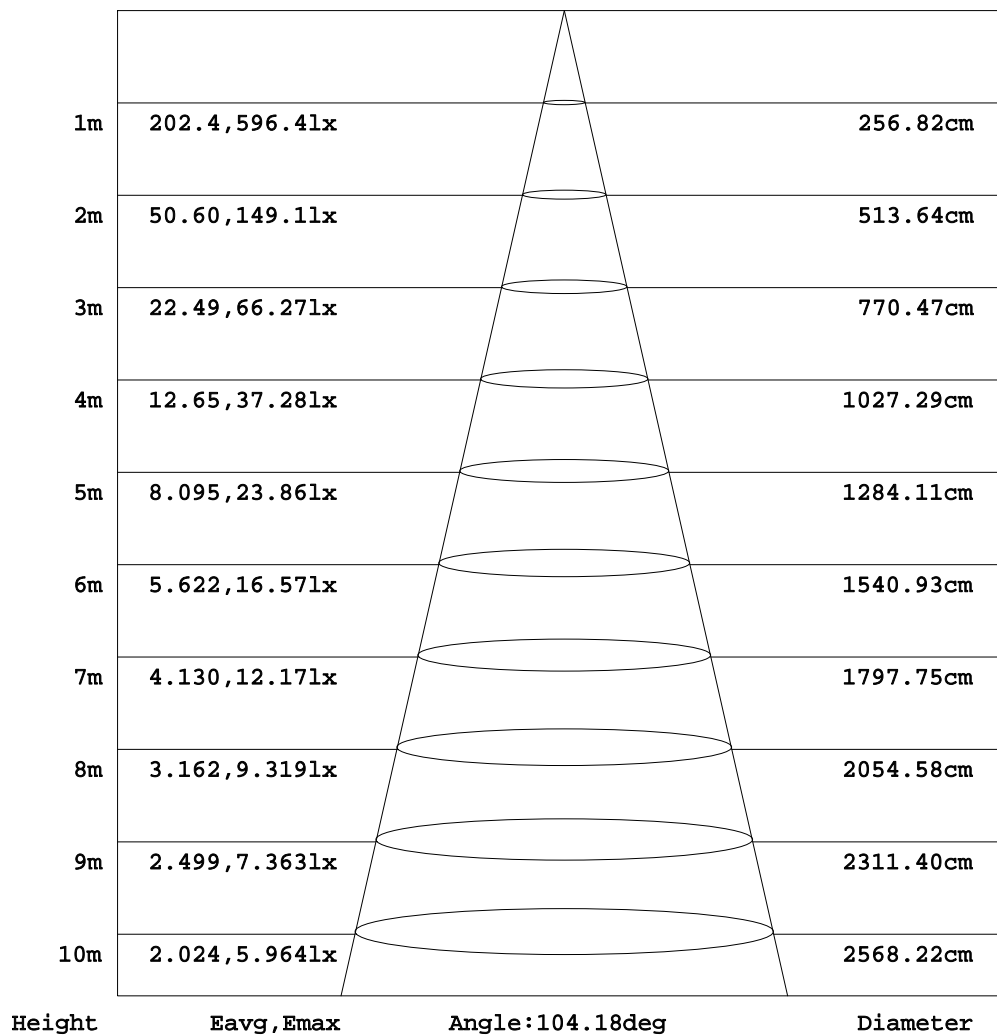
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AAI Figure

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Flux out:1080 lm



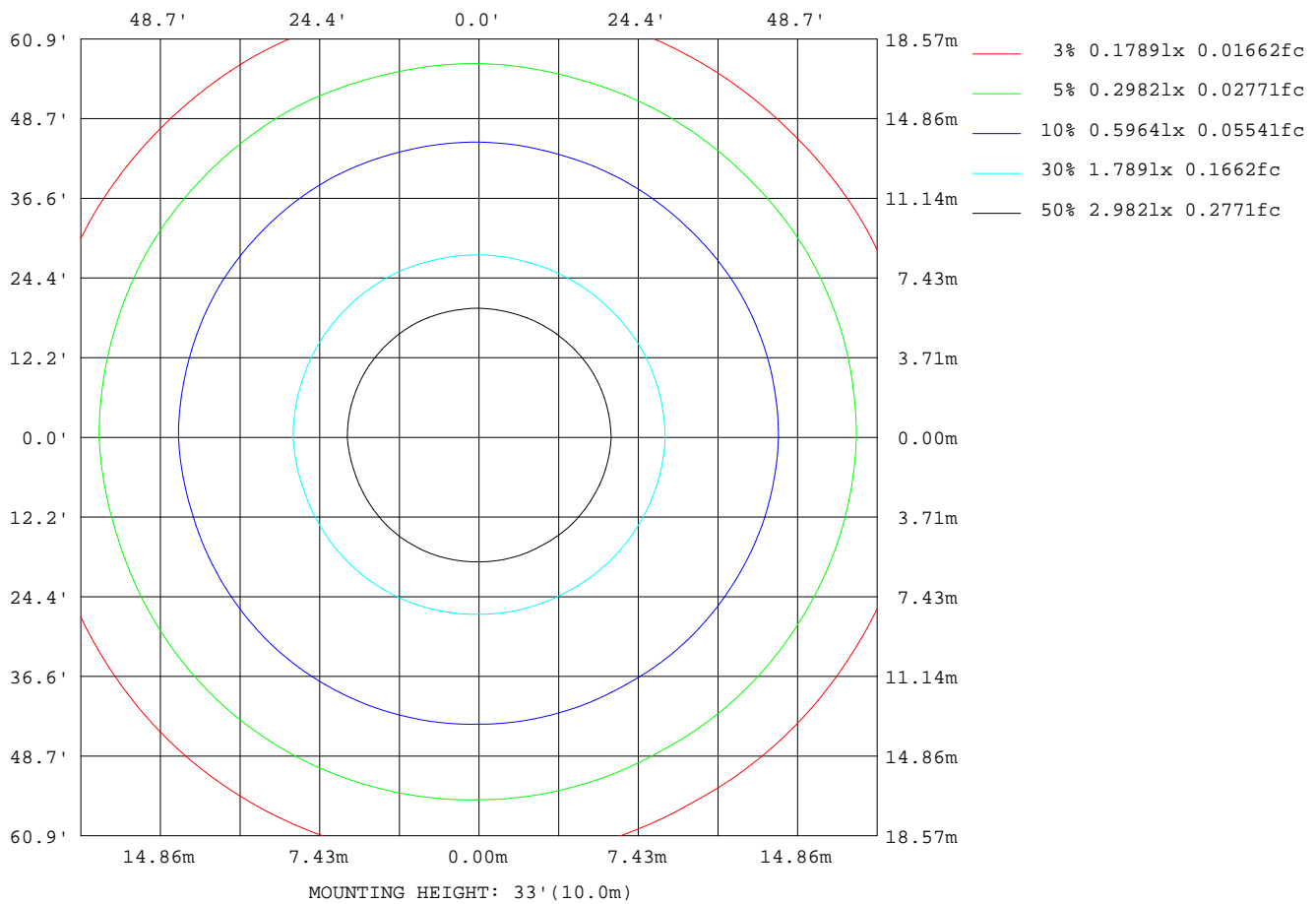
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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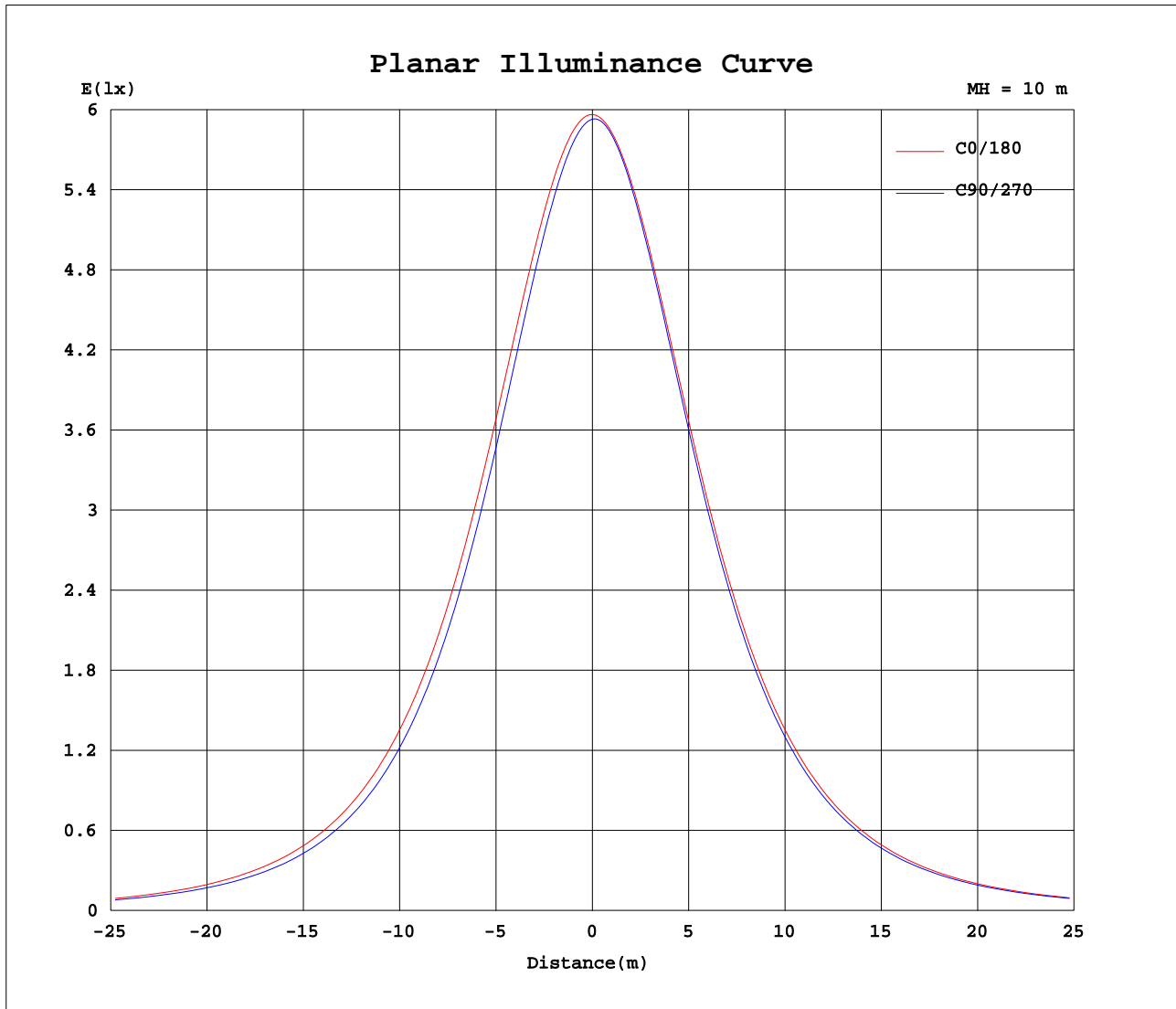
AvgL	cd/m2
L_0~180(65)av	19817
L_0~180(75)av	17609
L_0~180(85)av	13588
L_90~270(65)av	18208
L_90~270(75)av	16459
L_90~270(85)av	14399
L_45(65)av	18851
L_45(75)av	16862
L_45(85)av	13576

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-04-02

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 Long
Test Date: 2020-04-02

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:

```