

Low Voltage Track System Module ML26-GL1120-26W-927



Light Output Ratio:	100.0%	
Luminaire Power:	25.98 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
Test Date: 2020-05-06

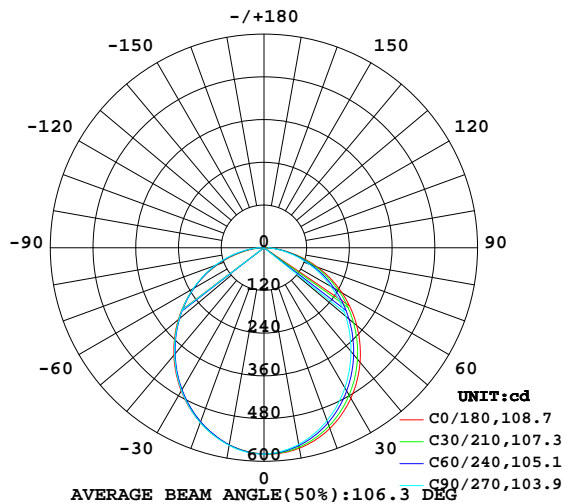
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

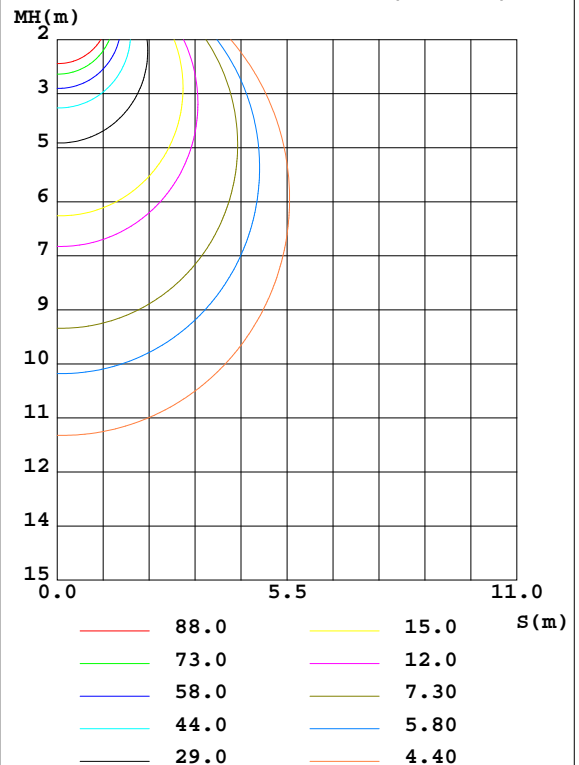
Test:U:48.00V I:0.5412A P:25.98W PF:1.000 Freq:0Hz Lamp Flux:1555.72x1 lm		
NAME: ML26-GL1120-26W-927	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: L1120mm*W22mm*H43mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 59.89 lm/W			
MODEL	SAMSUNG-2700K	I _{max} (cd)	579.9	S/MH(C0/180)	1.20
NOMINAL POWER(W)	26	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	1555.7	η UP,DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	1555.72	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.4
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)



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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	571.8	566.9	560.7	559.9	562.3	561.8	563.9	568.8	0- 10	54.58	54.58	3.51,3.51
20	540.4	529.4	517.2	516.5	522.7	519.1	523.0	531.8	10- 20	154.3	208.9	13.4,13.4
30	488.1	472.5	454.6	455.7	464.9	460.0	463.2	476.5	20- 30	229.3	438.1	28.2,28.2
40	419.8	401.2	380.1	382.7	393.8	388.4	390.5	406.5	30- 40	270.3	708.4	45.5,45.5
50	340.3	321.4	299.9	302.7	314.1	309.5	311.5	327.7	40- 50	274.7	983.1	63.2,63.2
60	253.0	236.3	216.9	218.7	228.6	226.4	229.5	243.4	50- 60	244.9	1228	78.9,78.9
70	160.6	148.6	134.0	133.3	139.6	141.8	146.9	156.4	60- 70	186.3	1414	90.9,90.9
80	69.30	64.73	57.39	54.01	53.80	60.98	67.52	70.37	70- 80	108.3	1523	97.9,97.9
90	4.500	8.811	11.12	7.529	0.6707	5.029	8.447	8.025	80- 90	33.12	1556	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): 847.42 lm

%lum = 54.5%

%lamp = 54.5%

Conical surface Flux(120deg): 1227.9 lm

%lum = 78.9%

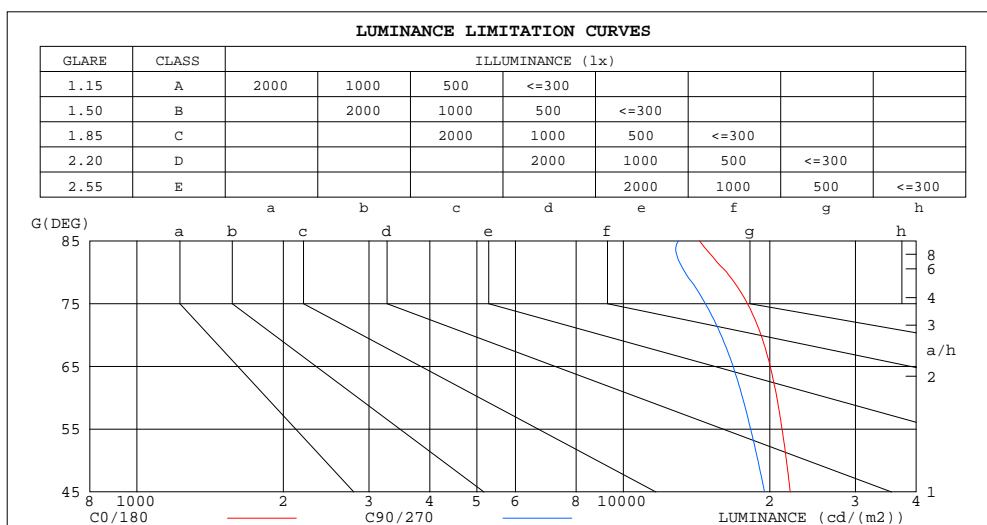
%lamp = 78.9%

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LUMINANCE LIMITATION CURVES

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SPEC.:2700K	DIM.: L1120mm*W22mm*H43mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	14347	12979
80	16313	13393
75	17994	14741
70	19190	15879
65	20040	16817
60	20685	17580
55	21196	18268
50	21639	18908
45	22034	19512

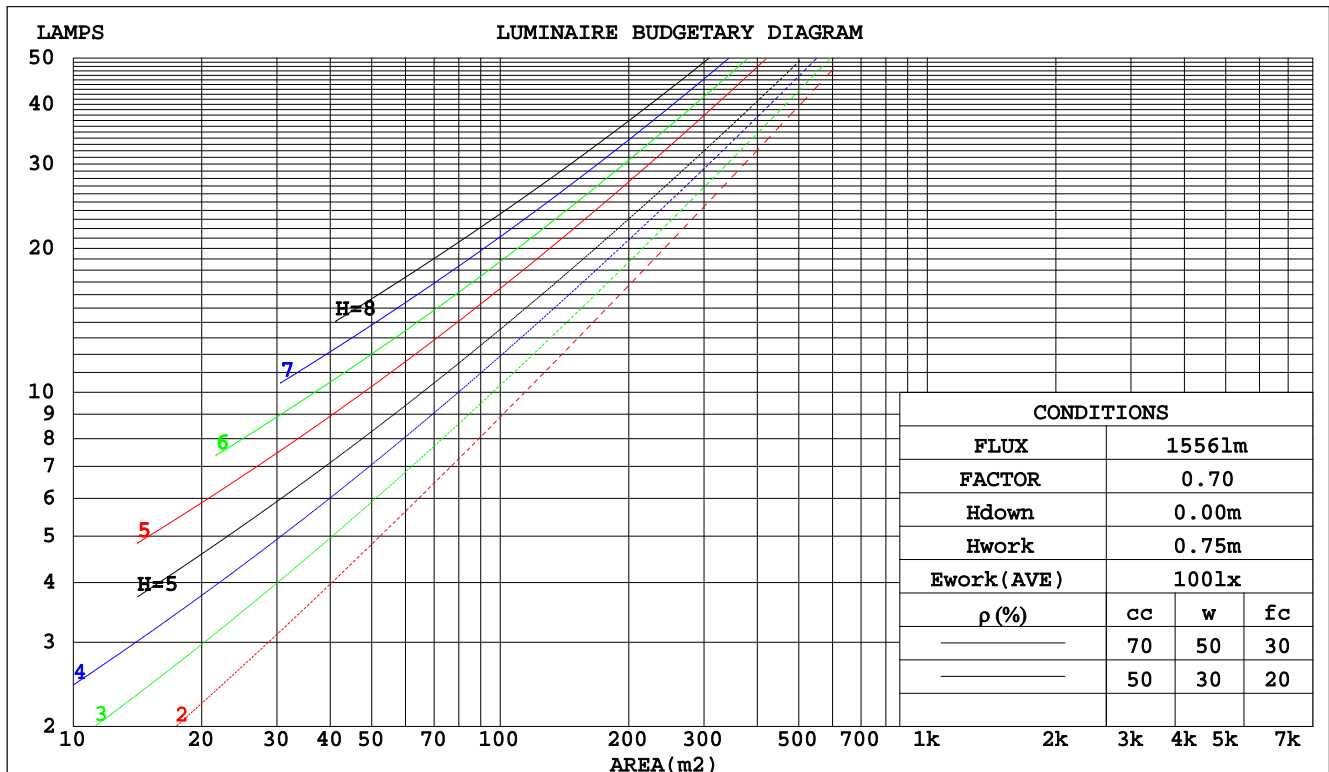
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.00
1.0	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.70
3.0	.80	.71	.65	.78	.70	.64	.75	.68	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.54	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.44
6.0	.57	.48	.41	.56	.47	.41	.54	.47	.41	.52	.46	.41	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.42	.37	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.29	.42	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.38	.31	.27	.37	.31	.26	.25



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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	.310	.176	.056	.303	.173	.055	.290	.166	.053	.278	.160	.051	.266	.154	.050	
2.0	.291	.159	.049	.284	.157	.048	.273	.152	.047	.262	.147	.046	.252	.143	.045	
3.0	.269	.143	.043	.263	.141	.042	.253	.137	.042	.243	.133	.041	.234	.130	.040	
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.225	.121	.036	.217	.118	.036	
5.0	.229	.117	.034	.225	.115	.034	.217	.113	.033	.209	.110	.033	.202	.108	.032	
6.0	.212	.106	.030	.209	.105	.030	.201	.103	.030	.195	.101	.030	.188	.099	.029	
7.0	.198	.098	.028	.194	.097	.028	.188	.095	.027	.182	.093	.027	.176	.091	.027	
8.0	.185	.090	.025	.182	.089	.025	.176	.088	.025	.170	.086	.025	.165	.085	.025	
9.0	.173	.084	.023	.170	.083	.023	.165	.082	.023	.160	.080	.023	.156	.079	.023	
10.0	.163	.078	.022	.160	.077	.022	.156	.076	.021	.151	.075	.021	.147	.074	.021	

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	.180	.156	.134	.154	.134	.116	.106	.092	.080	.061	.053	.047	.019	.017	.015		
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011		
3.0	.164	.114	.074	.141	.099	.065	.097	.068	.045	.056	.040	.027	.018	.013	.009		
4.0	.157	.101	.059	.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	.122	.064	.025	.105	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003		
10.0	.117	.060	.023	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003		

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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:0.5412A P:25.98W PF:1.000 Freq:0Hz Lamp Flux:1555.72x1 lm										
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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	22.0	23.5	22.3	23.7	23.9	21.4	22.9	21.6	23.1	23.3
3H	23.6	25.0	23.9	25.2	25.5	22.8	24.2	23.1	24.4	24.7
4H	24.3	25.6	24.6	25.8	26.1	23.4	24.7	23.7	25.0	25.2
6H	24.7	26.0	25.1	26.3	26.5	23.8	25.1	24.1	25.3	25.6
8H	24.9	26.1	25.2	26.4	26.7	23.9	25.2	24.3	25.4	25.7
12H	25.0	26.1	25.3	26.4	26.7	24.0	25.2	24.4	25.5	25.8
4H 2H	22.6	23.9	22.9	24.1	24.4	22.0	23.4	22.4	23.6	23.9
3H	24.3	25.5	24.7	25.8	26.1	23.7	24.8	24.0	25.1	25.4
4H	25.1	26.2	25.5	26.5	26.8	24.4	25.4	24.8	25.8	26.1
6H	25.7	26.7	26.1	27.0	27.4	24.9	25.9	25.3	26.2	26.6
8H	25.9	26.8	26.4	27.2	27.6	25.1	26.0	25.5	26.4	26.8
12H	26.1	26.9	26.5	27.3	27.7	25.3	26.1	25.7	26.5	26.9
8H 4H	25.4	26.2	25.8	26.6	27.0	24.7	25.6	25.1	25.9	26.3
6H	26.1	26.8	26.6	27.3	27.7	25.4	26.1	25.8	26.5	27.0
8H	26.4	27.1	26.9	27.5	27.9	25.7	26.3	26.1	26.8	27.2
12H	26.6	27.2	27.1	27.7	28.1	25.9	26.5	26.4	26.9	27.4
12H 4H	25.4	26.2	25.8	26.6	27.0	24.7	25.5	25.2	25.9	26.3
6H	26.2	26.8	26.6	27.2	27.7	25.5	26.1	25.9	26.6	27.0
8H	26.5	27.1	27.0	27.5	28.0	25.8	26.4	26.3	26.8	27.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1556 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.5$)

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Remarks:

UTILIZATION FACTORS TABLE

Test:U:48.00V I:0.5412A P:25.98W PF:1.000 Freq:0Hz Lamp Flux:1555.72x1 lm		
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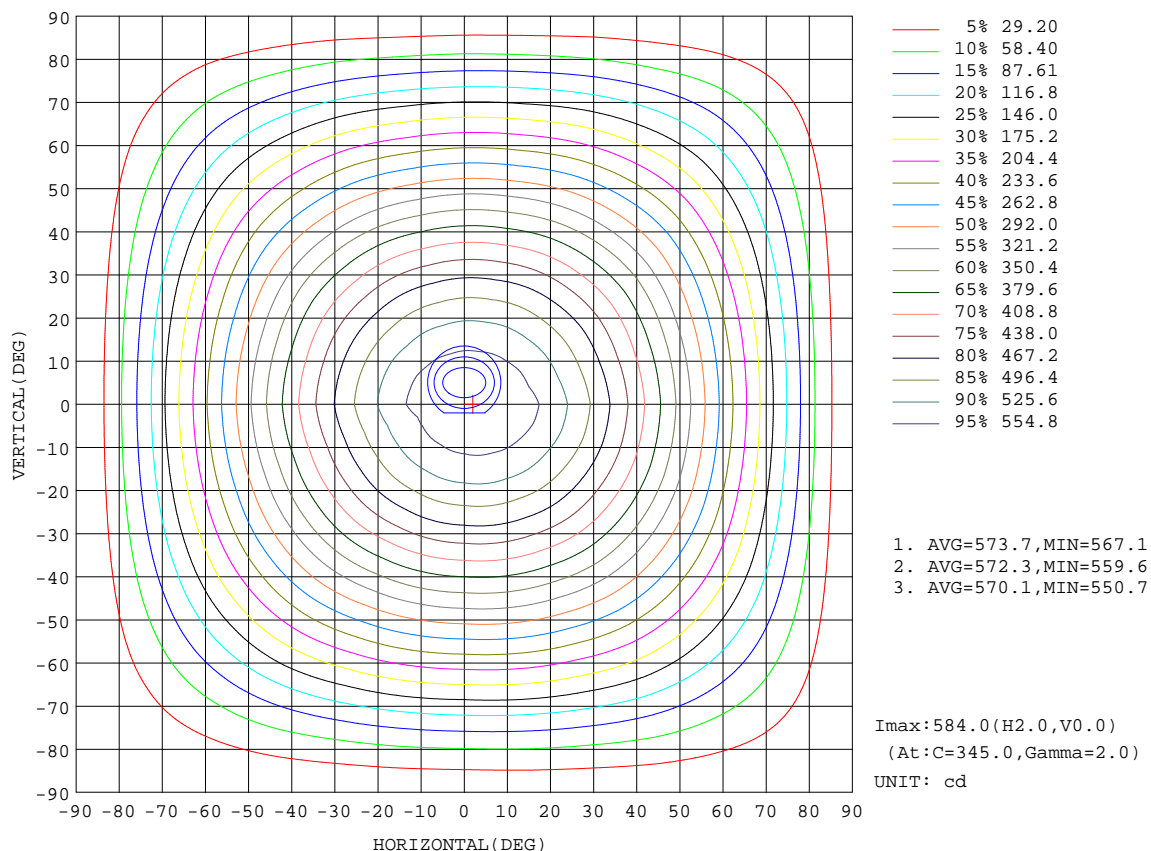
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	57	46	40	56	46	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	65	79	71	65	57
1.50	88	79	72	87	78	71	84	76	70	62
2.00	95	87	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	95	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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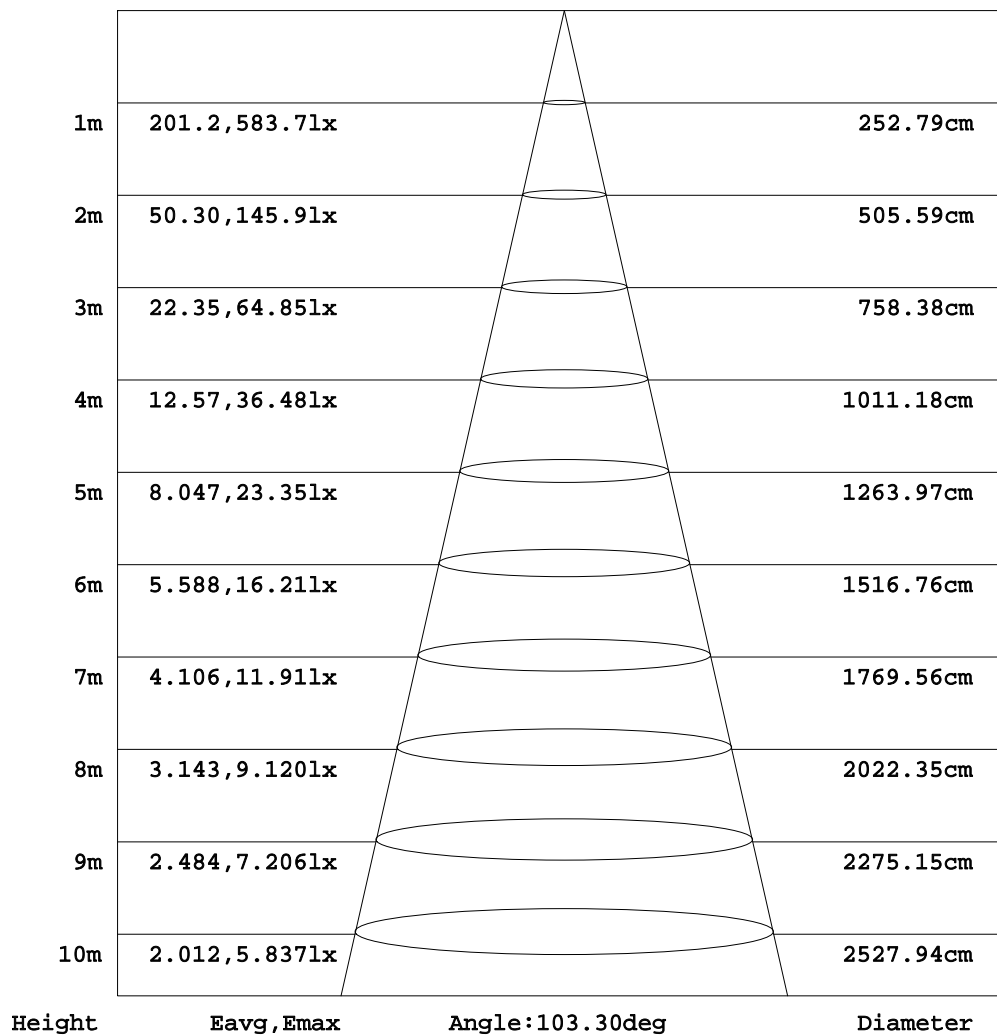
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AAI Figure

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Flux out:1035 lm



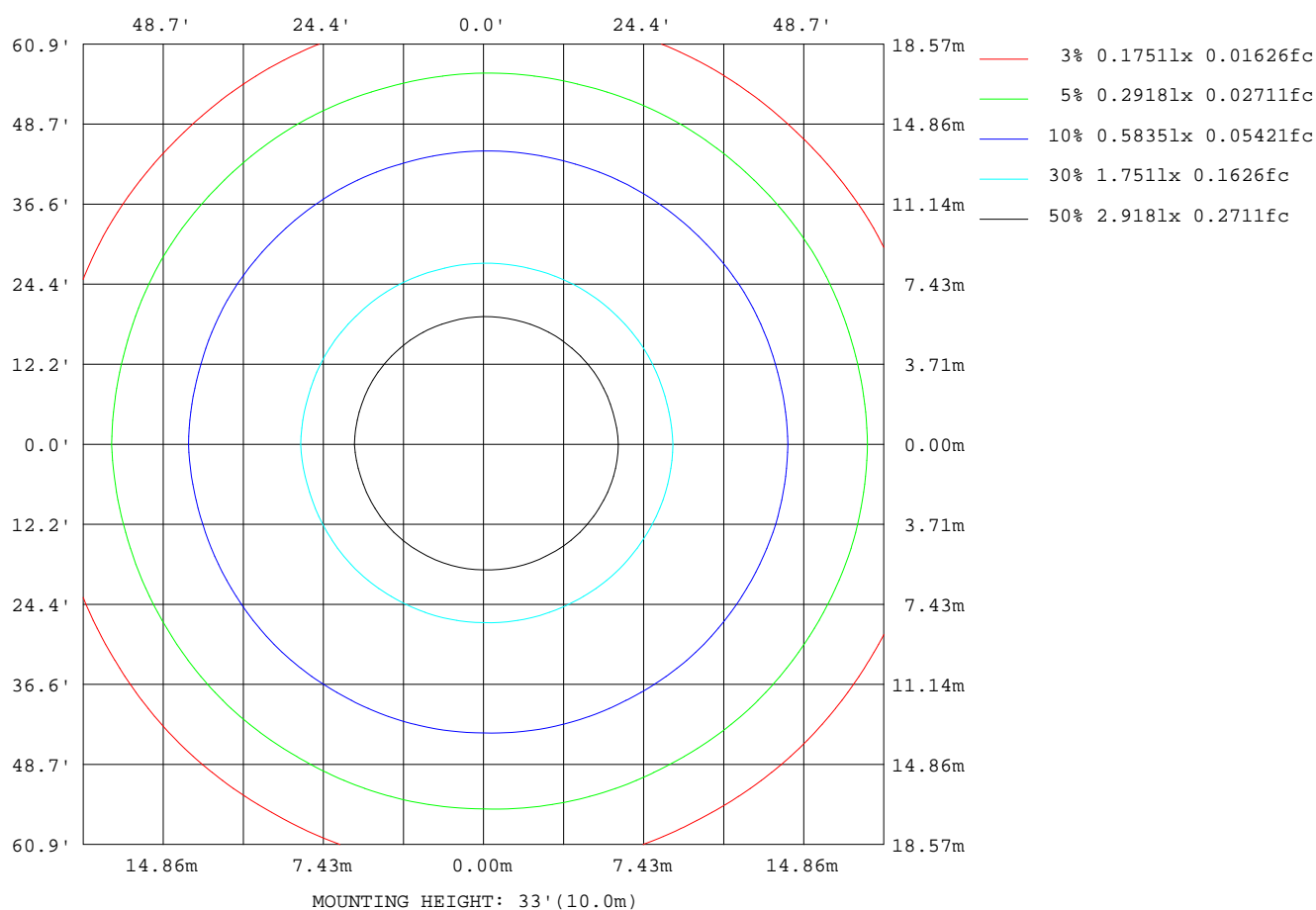
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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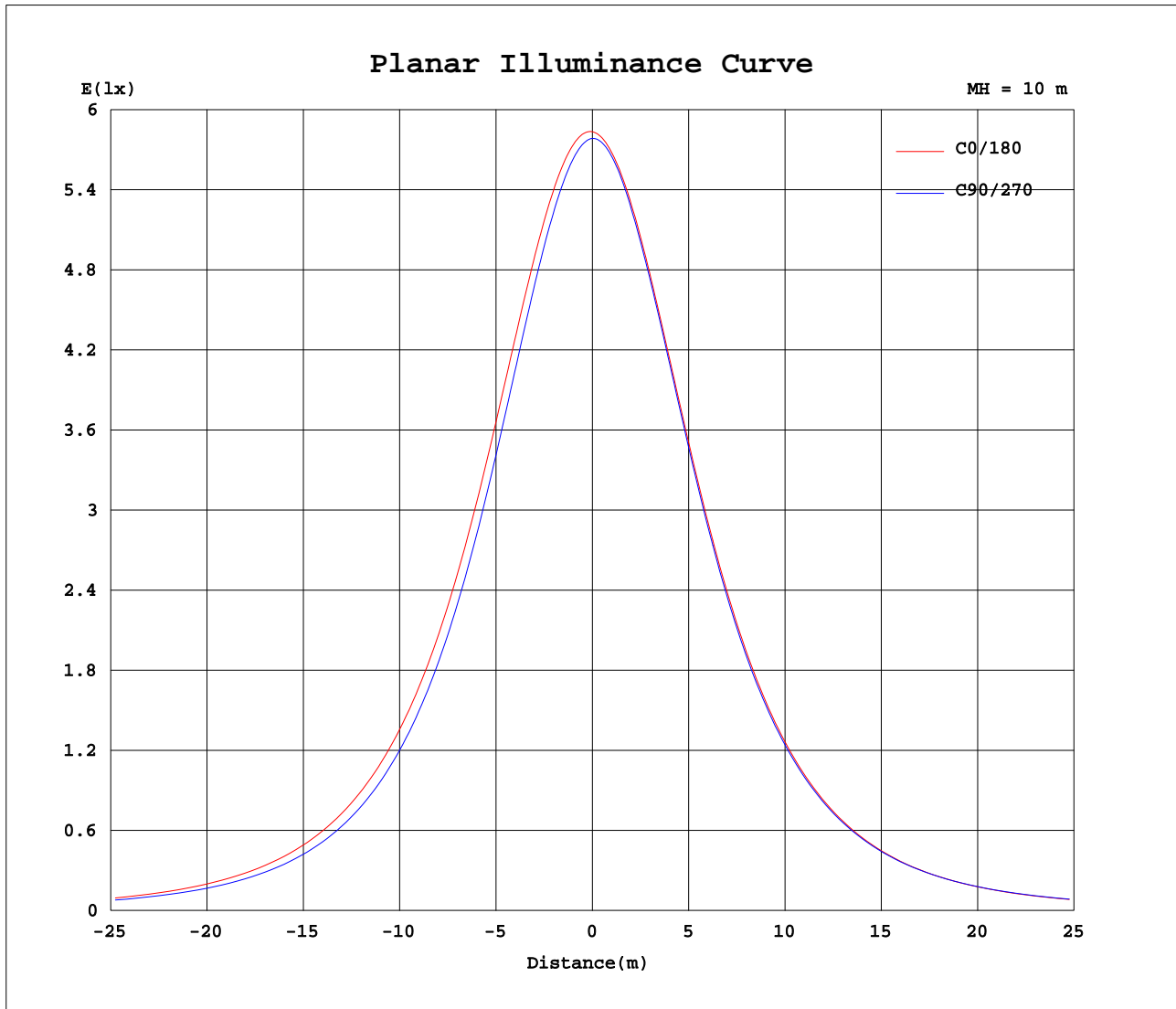
AvgL	cd/m2
L_0~180(65)av	18793
L_0~180(75)av	16363
L_0~180(85)av	11873
L_90~270(65)av	17452
L_90~270(75)av	15674
L_90~270(85)av	14103
L_45(65)av	18075
L_45(75)av	16069
L_45(85)av	13466

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-06

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: 2020-05-06

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:

```