

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

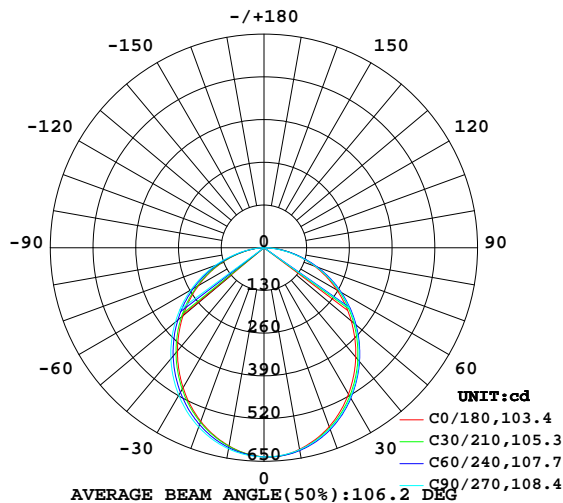
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

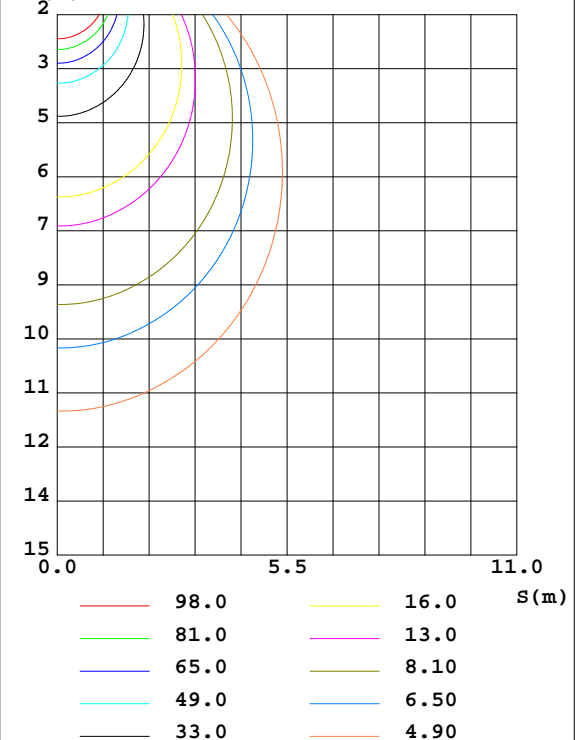
Test:U:48.00V I:0.5412A P:25.98W PF:1.000 Freq:0Hz Lamp Flux:1703.82x1 lm		
NAME: ML26-GL1120-26W-940	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: L1120mm*W22*H43mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.59 lm/W			
MODEL	SAMSUNG-4000K	I _{max} (cd)	637.1	S/MH(C0/180)	1.16
NOMINAL POWER(W)	26	LOR(%)	100.0	S/MH(C90/270)	1.22
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	1703.8	η UP,DN(C0-180)	0.0,51.0
NOMINAL FLUX(lm)	1703.82	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.0
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	622.9	626.4	624.1	616.5	612.4	615.1	621.4	621.8	0- 10	59.96	59.96	3.52,3.52
20	579.7	586.7	586.0	570.7	562.4	568.2	580.6	577.7	10- 20	169.5	229.5	13.5,13.5
30	514.3	526.6	526.1	504.4	492.2	502.1	518.5	513.4	20- 30	251.9	481.4	28.3,28.3
40	434.2	449.8	449.5	424.2	409.8	422.3	440.7	434.3	30- 40	296.8	778.2	45.7,45.7
50	346.7	363.2	362.2	336.3	321.5	334.1	352.3	346.8	40- 50	301.4	1080	63.4,63.4
60	255.6	270.1	267.8	244.2	230.4	240.6	257.1	254.4	50- 60	268.2	1348	79.1,79.1
70	163.6	173.5	168.8	150.5	139.7	144.8	158.3	160.3	60- 70	203.6	1551	91.1,91.1
80	75.65	78.81	71.88	61.74	55.07	54.97	62.32	70.48	70- 80	117.6	1669	98,98
90	10.73	9.233	4.174	3.345	3.073	1.816	1.261	7.076	80- 90	34.70	1704	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): 930.82 lm

%lum = 54.6%

%lamp = 54.6%

Conical surface Flux(120deg): 1347.9 lm

%lum = 79.1%

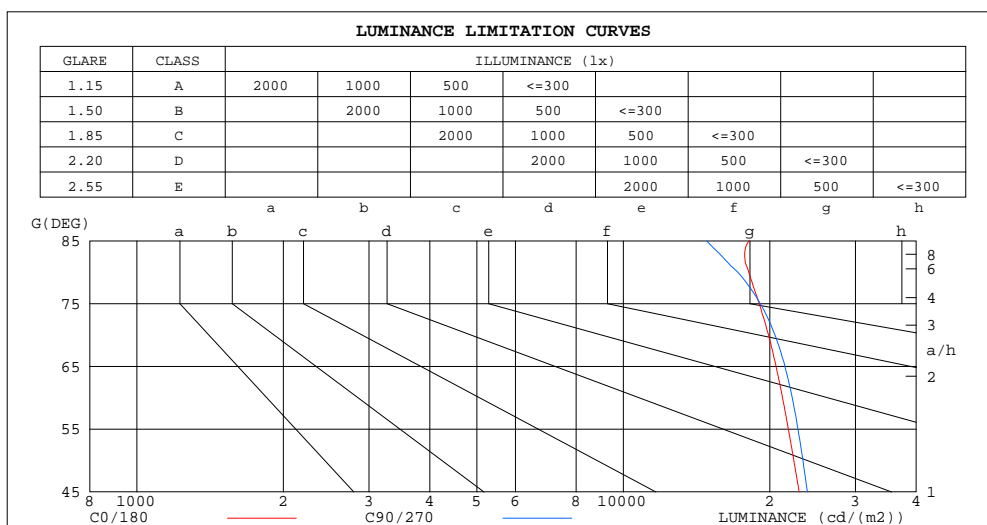
%lamp = 79.1%

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Test Speed: HIGH
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LUMINANCE LIMITATION CURVES

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SPEC.:4000K	DIM.: L1120mm*W22*H43mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	18132	14834
80	18104	17189
75	19023	19119
70	19882	20498
65	20605	21488
60	21242	22239
55	21835	22853
50	22413	23398
45	22984	23895

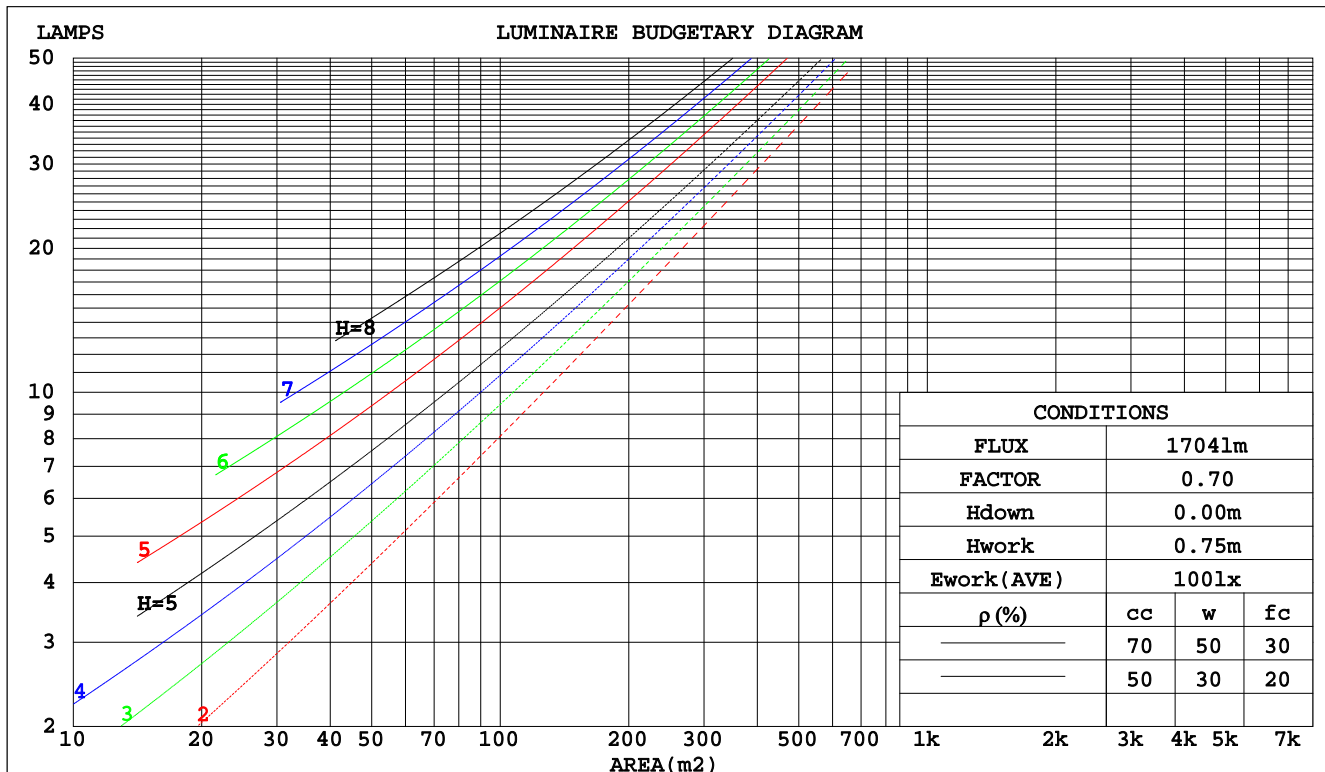
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.74	.79	.75	.72	.70
3.0	.80	.72	.65	.78	.71	.64	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.57	.53	.50
5.0	.63	.54	.48	.62	.54	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.44
6.0	.57	.48	.42	.56	.48	.41	.54	.47	.41	.52	.46	.41	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.36	.48	.41	.36	.47	.40	.36	.34
8.0	.47	.39	.33	.47	.38	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.41	.34	.29	.40	.33	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.25



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WEC AND CCEC

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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	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.309	.176	.056	.302	.172	.055	.288	.165	.053	.276	.159	.051	.265	.154	.050		
2.0	.290	.159	.049	.284	.156	.048	.272	.151	.047	.261	.147	.046	.251	.142	.045		
3.0	.268	.143	.043	.263	.141	.042	.252	.137	.042	.243	.133	.041	.234	.129	.040		
4.0	.247	.129	.038	.242	.127	.038	.233	.124	.037	.225	.121	.036	.217	.118	.036		
5.0	.229	.117	.034	.224	.115	.034	.216	.113	.033	.209	.110	.033	.202	.108	.032		
6.0	.212	.106	.030	.208	.105	.030	.201	.103	.030	.194	.101	.030	.188	.099	.029		
7.0	.197	.098	.028	.194	.097	.028	.188	.095	.027	.182	.093	.027	.176	.091	.027		
8.0	.184	.090	.025	.181	.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	.105	.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	.075	.141	.099	.065	.097	.068	.045	.056	.040	.027	.018	.013	.009		
4.0	.156	.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	.128	.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 Interval: 0.5DEG
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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:1703.82x1 lm										
NAME: ML26-GL1120-26W-940					TYPE:Low Voltage Track System Module					
SPEC.:4000K					DIM.: L1120mm*W22*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	21.9	23.4	22.2	23.6	23.8	22.2	23.7	22.4	23.9	24.1
3H	23.5	24.9	23.8	25.1	25.3	23.7	25.1	24.0	25.3	25.6
4H	24.1	25.4	24.4	25.7	26.0	24.3	25.7	24.7	25.9	26.2
6H	24.6	25.9	25.0	26.1	26.4	24.8	26.0	25.1	26.3	26.6
8H	24.8	26.0	25.1	26.3	26.6	24.9	26.1	25.3	26.4	26.7
12H	24.9	26.1	25.3	26.4	26.7	25.0	26.2	25.4	26.5	26.8
4H 2H	22.6	23.9	22.9	24.2	24.4	22.8	24.1	23.1	24.4	24.6
3H	24.3	25.5	24.7	25.8	26.1	24.5	25.7	24.9	26.0	26.3
4H	25.1	26.2	25.5	26.5	26.8	25.3	26.4	25.7	26.7	27.0
6H	25.8	26.7	26.2	27.1	27.4	25.9	26.8	26.3	27.2	27.5
8H	26.0	26.9	26.4	27.3	27.6	26.1	27.0	26.5	27.3	27.7
12H	26.2	27.0	26.6	27.4	27.8	26.2	27.0	26.6	27.4	27.8
8H 4H	25.4	26.3	25.8	26.7	27.1	25.6	26.5	26.0	26.8	27.2
6H	26.2	27.0	26.7	27.4	27.8	26.3	27.1	26.8	27.5	27.9
8H	26.6	27.2	27.1	27.7	28.1	26.6	27.3	27.1	27.7	28.2
12H	26.9	27.5	27.4	27.9	28.4	26.8	27.4	27.3	27.9	28.3
12H 4H	25.5	26.3	25.9	26.7	27.1	25.6	26.4	26.0	26.8	27.2
6H	26.3	27.0	26.8	27.4	27.9	26.4	27.1	26.9	27.5	27.9
8H	26.7	27.3	27.2	27.7	28.2	26.8	27.3	27.2	27.8	28.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1704 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.9$)

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

UTILIZATION FACTORS TABLE

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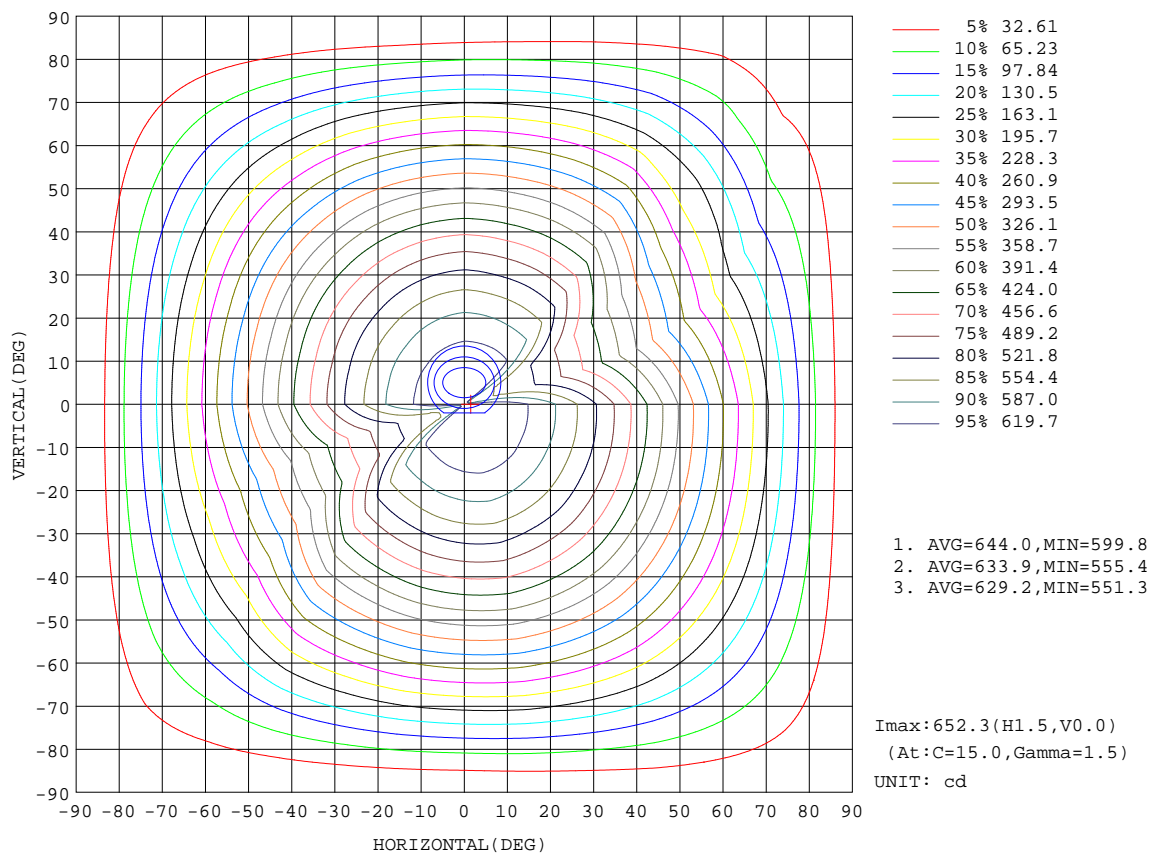
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	57	46	40	56	46	39	33
0.80	68	57	49	67	56	49	65	55	49	42
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	66	79	71	65	58
1.50	88	79	72	87	78	71	84	76	70	63
2.00	95	87	80	93	86	80	90	83	78	70
2.50	99	91	85	97	90	84	93	87	83	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	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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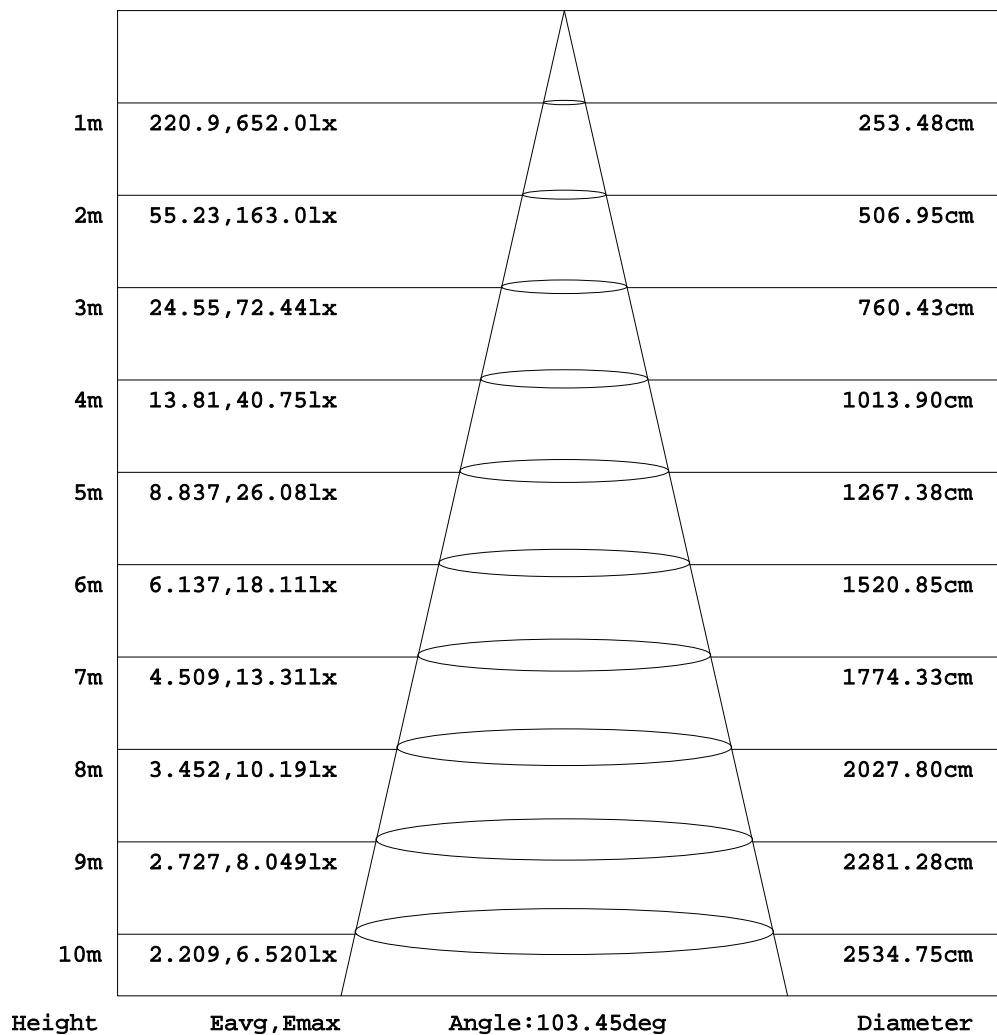
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AAI Figure

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Flux out:1137 lm



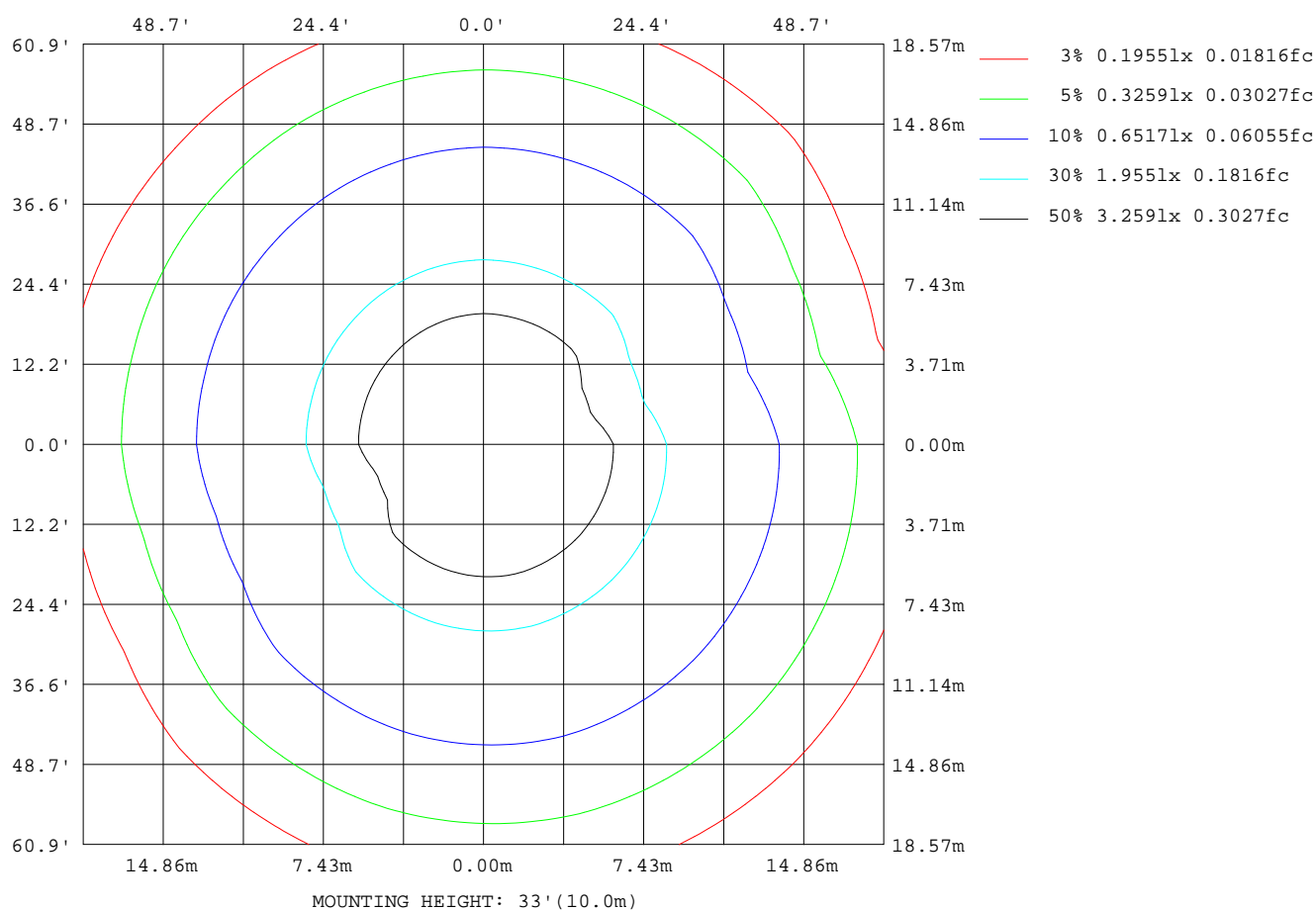
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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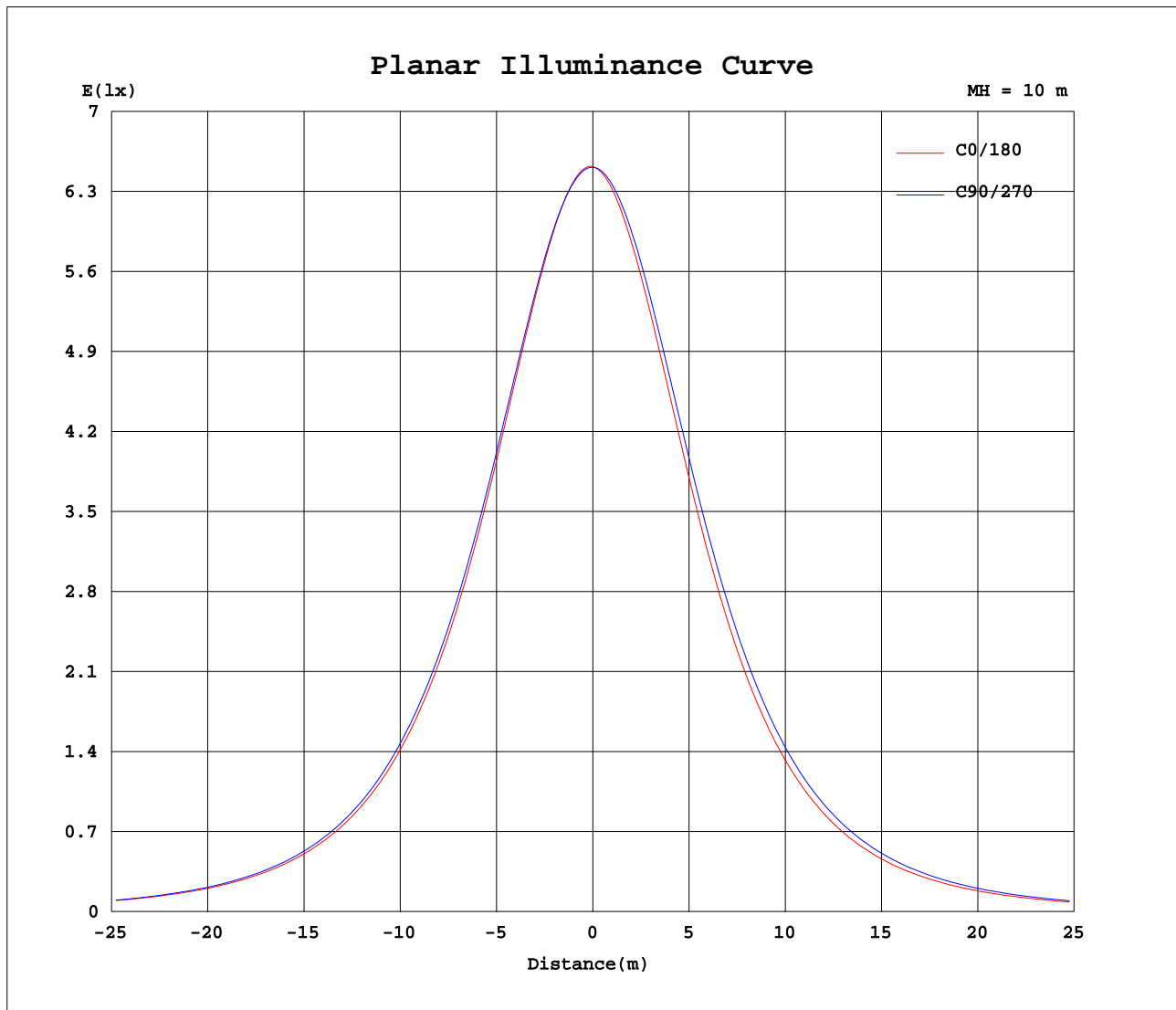
AvgL	cd/m2
L_0~180(65)av	18939
L_0~180(75)av	16751
L_0~180(85)av	14013
L_90~270(65)av	20489
L_90~270(75)av	17838
L_90~270(85)av	12894
L_45(65)av	19680
L_45(75)av	17300
L_45(85)av	13782

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:

```