

Low Voltage Track System Module ML26-WW280-7W-930



Light Output Ratio:	100.0%	
Luminaire Power:	6.823 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: 2020-05-08

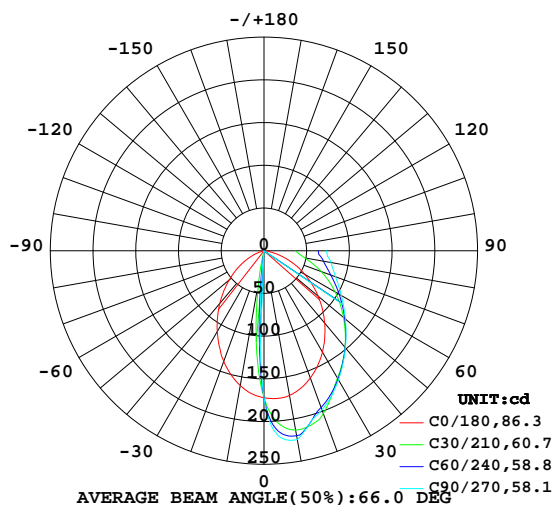
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

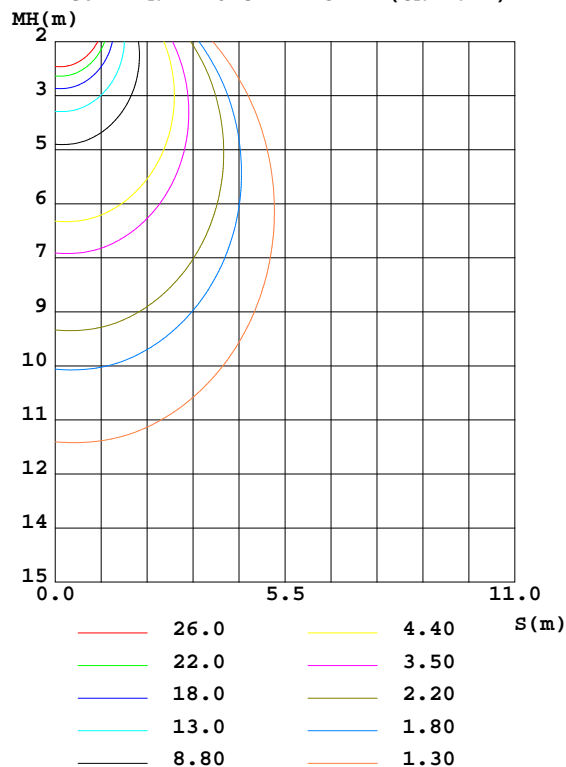
Test:U:48.00V I:0.1421A P:6.823W PF:1.000 Freq:0Hz Lamp Flux:349.786x1 lm		
NAME: ML26-WW280-7W-930	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: L290mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 51.26 lm/W			
MODEL	SAMSUNG-3000K	I _{max} (cd)	230.1	S/MH(C0/180)	1.00
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	0.11
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	349.79	η UP,DN(C0-180)	0.0,95.2
NOMINAL FLUX(lm)	349.786	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,4.8
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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Operators:Jason
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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	172.0	219.7	224.3	226.9	160.2	4.014	0.3450	4.169	0- 10	13.28	13.28	3.8,3.8
20	158.5	199.4	198.3	207.3	137.9	0.3027	0.2212	0.3452	10- 20	32.49	45.77	13.1,13.1
30	136.8	176.1	174.4	181.0	109.5	0.2040	0.0932	0.2324	20- 30	45.46	91.23	26.1,26.1
40	110.5	150.5	148.2	154.4	80.48	0.0988	0.0868	0.1174	30- 40	52.49	143.7	41.1,41.1
50	82.89	124.4	124.4	127.2	53.19	0.0730	0.0933	0.0902	40- 50	53.27	197.0	56.3,56.3
60	55.10	100.5	104.5	102.0	29.27	0.0730	0.1498	0.0812	50- 60	49.34	246.3	70.4,70.4
70	28.57	78.63	89.23	78.79	9.604	0.1309	0.2084	0.1352	60- 70	42.34	288.7	82.5,82.5
80	6.349	61.49	79.49	60.53	0.4527	0.1974	0.2931	0.1962	70- 80	33.94	322.6	92.2,92.2
90	0.3083	52.85	73.24	52.53	0.0899	0.3391	0.3516	0.3203	80- 90	27.17	349.8	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): 170.61 lm

%lum = 48.8%

%lamp = 48.8%

Conical surface Flux(120deg): 246.33 lm

%lum = 70.4%

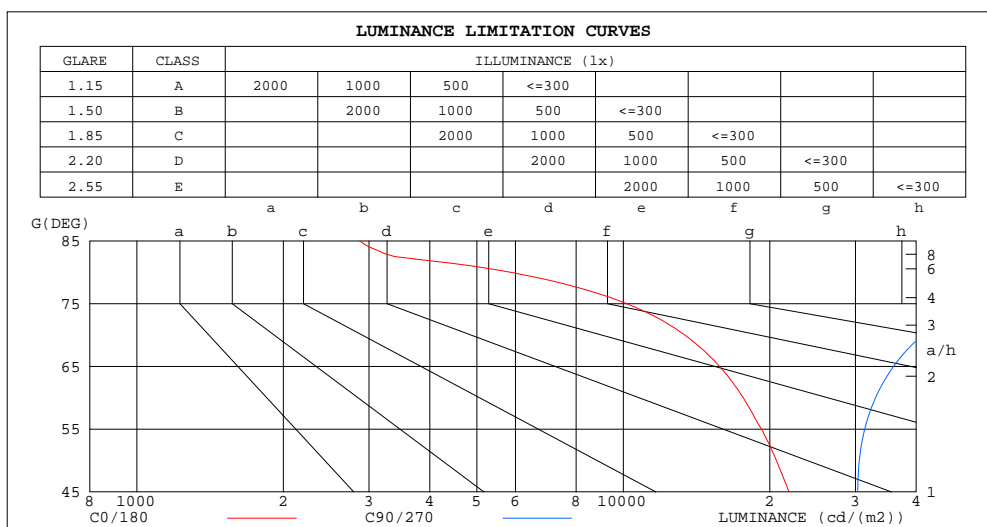
%lamp = 70.4%

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Test Speed: HIGH
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Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.: L290mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2871	135269
80	5852	72273
75	10149	51086
70	13368	41190
65	15774	35940
60	17638	32989
55	19234	31347
50	20639	30555
45	21895	30329

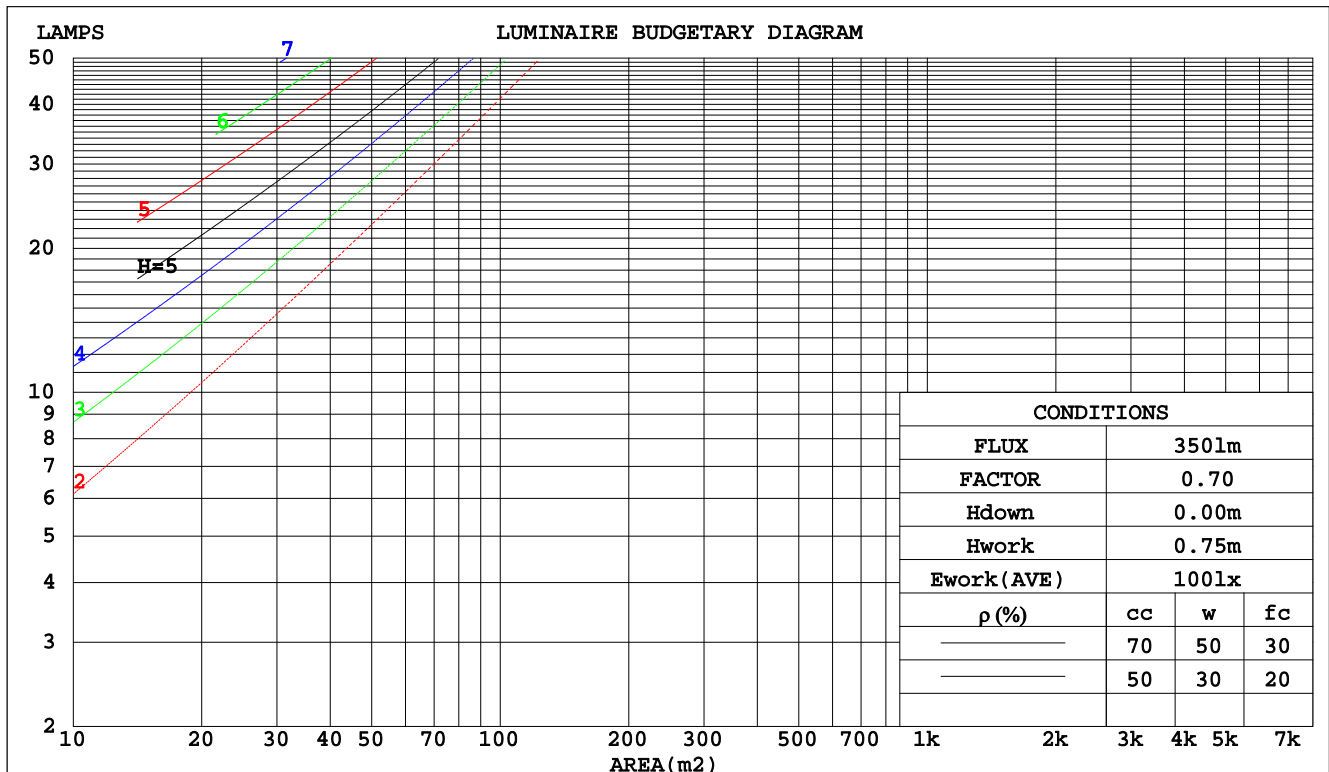
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.00	.95	.90	.98	.93	.89	.93	.89	.86	.89	.86	.83	.86	.83	.81	.78
2.0	.86	.79	.72	.84	.77	.71	.81	.75	.69	.77	.72	.68	.74	.70	.66	.64
3.0	.76	.67	.60	.74	.66	.59	.71	.64	.58	.68	.62	.57	.65	.60	.56	.53
4.0	.67	.58	.50	.66	.57	.50	.63	.55	.49	.61	.54	.49	.58	.53	.48	.46
5.0	.60	.50	.43	.59	.50	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.39
6.0	.54	.45	.38	.53	.44	.38	.51	.43	.37	.49	.42	.37	.48	.42	.37	.35
7.0	.49	.40	.34	.48	.40	.34	.47	.39	.33	.45	.38	.33	.44	.38	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.40	.34	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.40	.32	.27	.39	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.24	.23



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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	.381	.217	.069	.374	.213	.068	.360	.207	.066	.347	.200	.064	.336	.195	.063			
2.0	.330	.181	.056	.324	.178	.055	.312	.173	.054	.301	.169	.053	.290	.164	.052			
3.0	.294	.156	.047	.288	.154	.046	.278	.151	.046	.268	.147	.045	.259	.143	.044			
4.0	.265	.138	.040	.260	.136	.040	.251	.133	.040	.242	.130	.039	.234	.127	.039			
5.0	.241	.123	.036	.237	.122	.035	.229	.119	.035	.221	.117	.035	.214	.114	.034			
6.0	.221	.111	.032	.218	.110	.032	.210	.108	.031	.203	.106	.031	.197	.104	.031			
7.0	.204	.101	.029	.201	.100	.029	.194	.098	.028	.188	.097	.028	.182	.095	.028			
8.0	.190	.093	.026	.187	.092	.026	.181	.090	.026	.175	.089	.026	.170	.087	.025			
9.0	.177	.086	.024	.174	.085	.024	.169	.084	.024	.164	.082	.024	.159	.081	.023			
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.154	.077	.022	.150	.075	.022			

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	.185	.156	.129	.158	.133	.111	.108	.092	.077	.062	.053	.045	.020	.017	.014		
2.0	.177	.132	.093	.152	.113	.081	.104	.078	.056	.060	.046	.033	.019	.015	.011		
3.0	.169	.114	.071	.145	.099	.061	.100	.069	.043	.057	.040	.025	.018	.013	.008		
4.0	.161	.101	.056	.138	.088	.049	.095	.061	.034	.055	.036	.020	.018	.012	.007		
5.0	.153	.091	.046	.131	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.005		
6.0	.145	.083	.038	.125	.072	.033	.086	.050	.023	.050	.029	.014	.016	.010	.005		
7.0	.138	.076	.032	.118	.066	.028	.082	.046	.020	.047	.027	.012	.015	.009	.004		
8.0	.131	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003		
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003		
10.0	.118	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG
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Test Speed: HIGH
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Operators:Jason
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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:0.1421A P:6.823W PF:1.000 Freq:0Hz Lamp Flux:349.786x1 lm										
NAME: ML26-WW280-7W-930					TYPE:Low Voltage Track System Module					
SPEC.:3000K					DIM.: L290mm*W22mm*H81mm					
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	29.7	31.3	30.0	31.5	31.7	30.8	32.4	31.1	32.6	32.8
3H	31.1	32.6	31.4	32.8	33.1	33.2	34.7	33.5	34.9	35.2
4H	31.6	33.0	31.9	33.3	33.6	34.7	36.1	35.0	36.3	36.6
6H	31.9	33.3	32.2	33.5	33.8	36.3	37.7	36.6	37.9	38.2
8H	31.9	33.3	32.3	33.5	33.8	37.3	38.6	37.6	38.9	39.1
12H	31.9	33.2	32.3	33.5	33.8	38.4	39.6	38.7	39.9	40.2
4H 2H	30.7	32.2	31.1	32.4	32.7	31.5	33.0	31.9	33.2	33.5
3H	32.6	33.8	32.9	34.1	34.5	34.2	35.5	34.6	35.8	36.1
4H	33.4	34.6	33.8	34.9	35.2	35.8	37.0	36.2	37.3	37.7
6H	34.0	35.1	34.4	35.5	35.8	37.7	38.8	38.1	39.1	39.5
8H	34.2	35.2	34.7	35.6	36.0	38.8	39.8	39.2	40.1	40.5
12H	34.3	35.3	34.8	35.7	36.1	40.0	40.9	40.5	41.3	41.7
8H 4H	34.4	35.4	34.8	35.7	36.1	36.3	37.3	36.7	37.7	38.1
6H	35.5	36.3	35.9	36.7	37.1	38.5	39.3	38.9	39.7	40.2
8H	35.9	36.7	36.4	37.1	37.6	39.8	40.6	40.3	41.0	41.4
12H	36.3	37.0	36.8	37.4	37.9	41.3	42.0	41.8	42.4	42.9
12H 4H	34.7	35.6	35.1	36.0	36.4	36.4	37.3	36.8	37.7	38.1
6H	36.0	36.8	36.5	37.2	37.6	38.7	39.4	39.1	39.9	40.3
8H	36.7	37.4	37.2	37.8	38.3	40.1	40.8	40.6	41.2	41.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.4 / - 0.7					+ 0.3 / - 0.4				

CIE Pub.117, 349.8 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -3.6$)

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Test Distance:5.850m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

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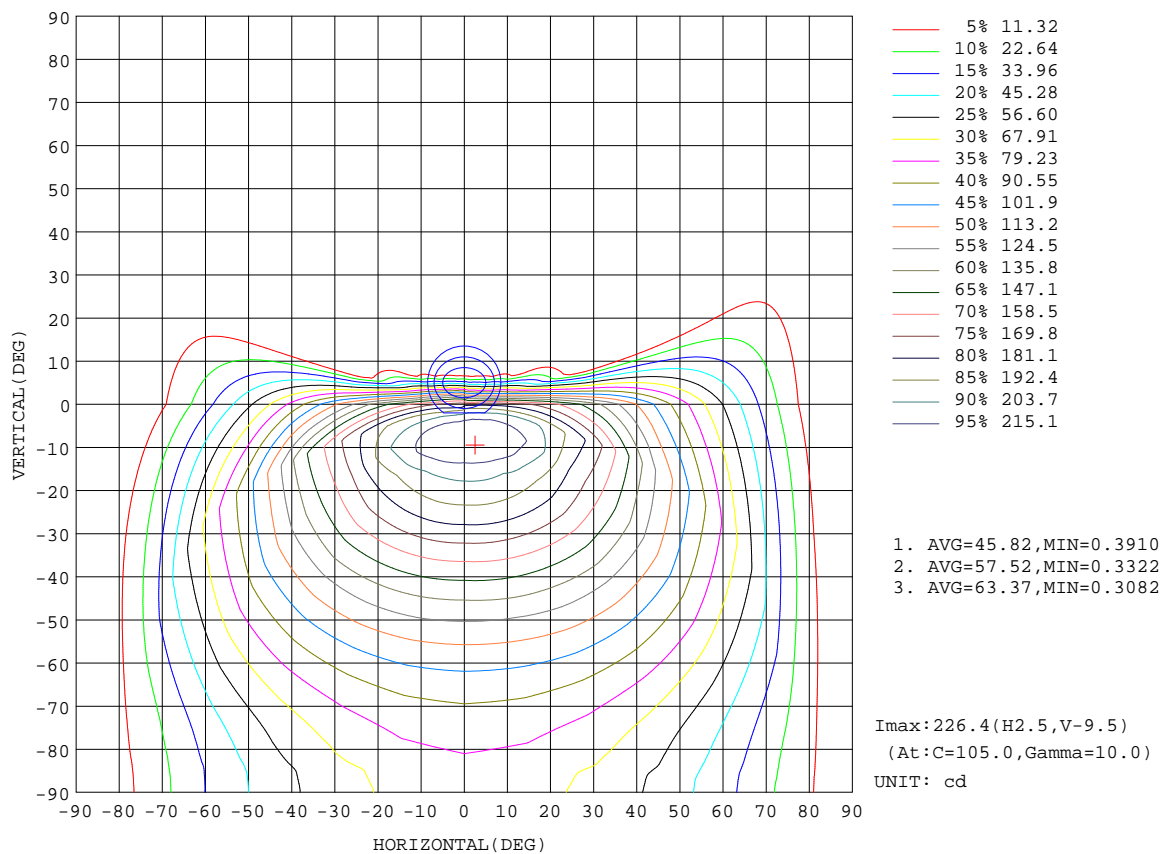
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	65	53	46	64	53	45	62	52	45	38
1.00	73	61	53	72	61	53	70	62	53	45
1.25	80	68	61	78	68	60	76	66	60	52
1.50	85	74	66	83	73	66	80	71	65	56
2.00	91	82	74	90	81	74	86	78	72	64
2.50	96	87	80	93	85	79	89	82	77	68
3.00	99	91	84	97	89	83	92	86	81	72
4.00	103	96	91	101	95	89	96	91	87	77
5.00	106	100	95	103	98	93	99	94	90	80
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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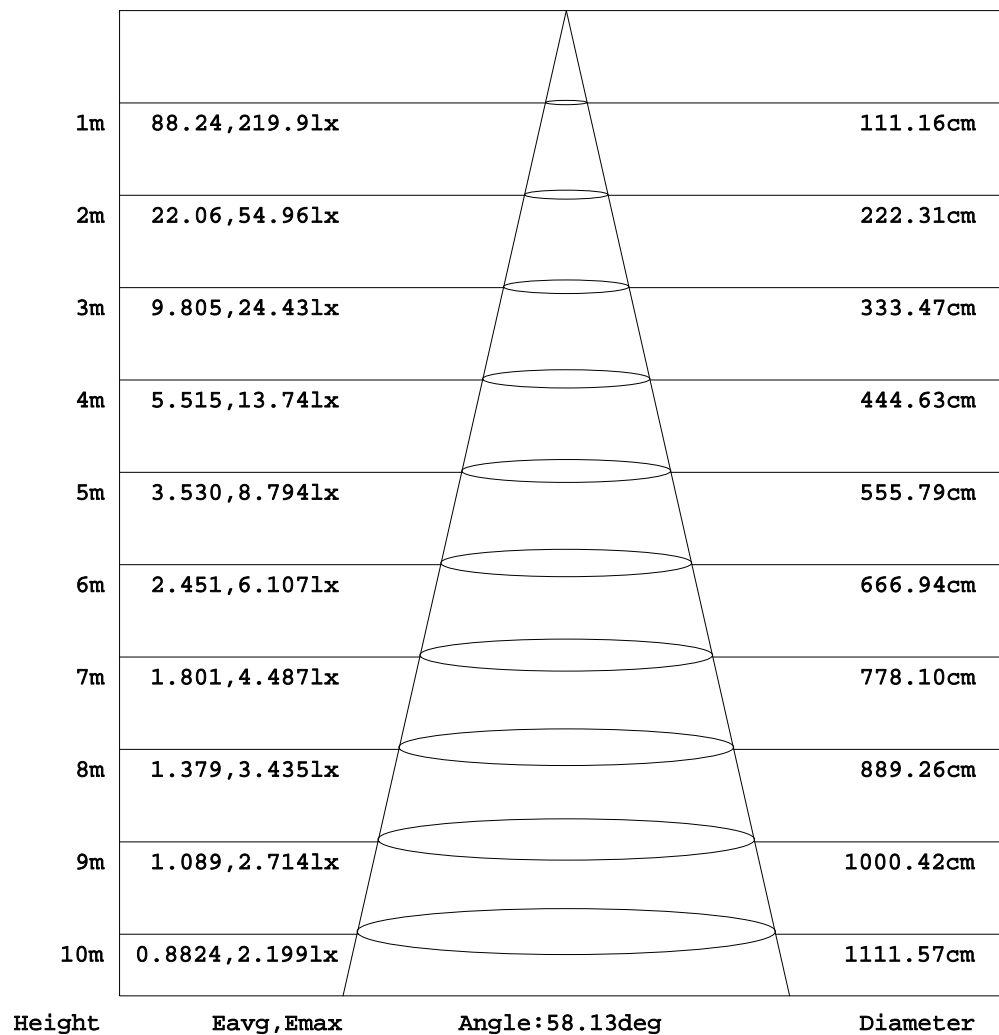
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AAI Figure

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Flux out:88.74 lm



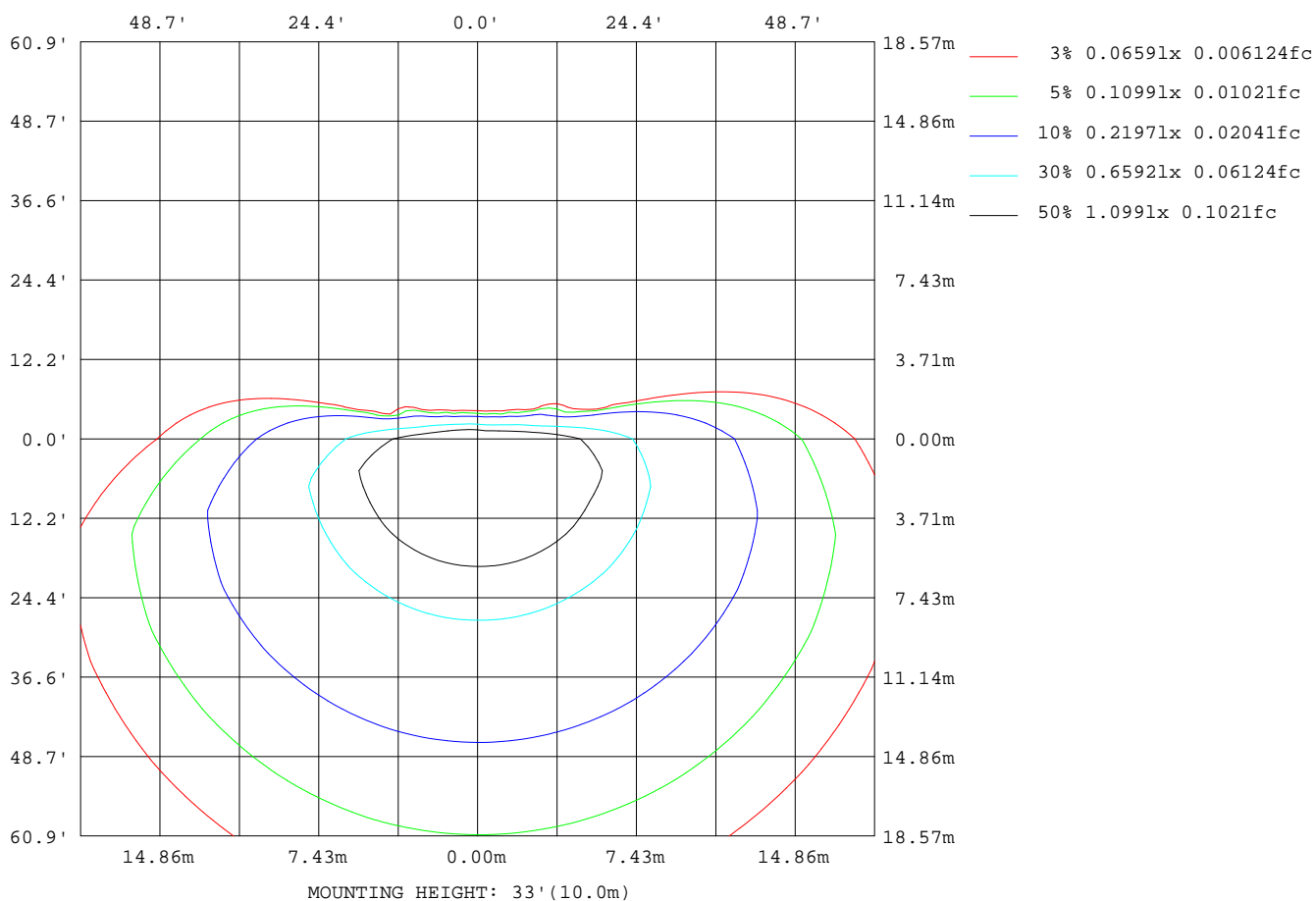
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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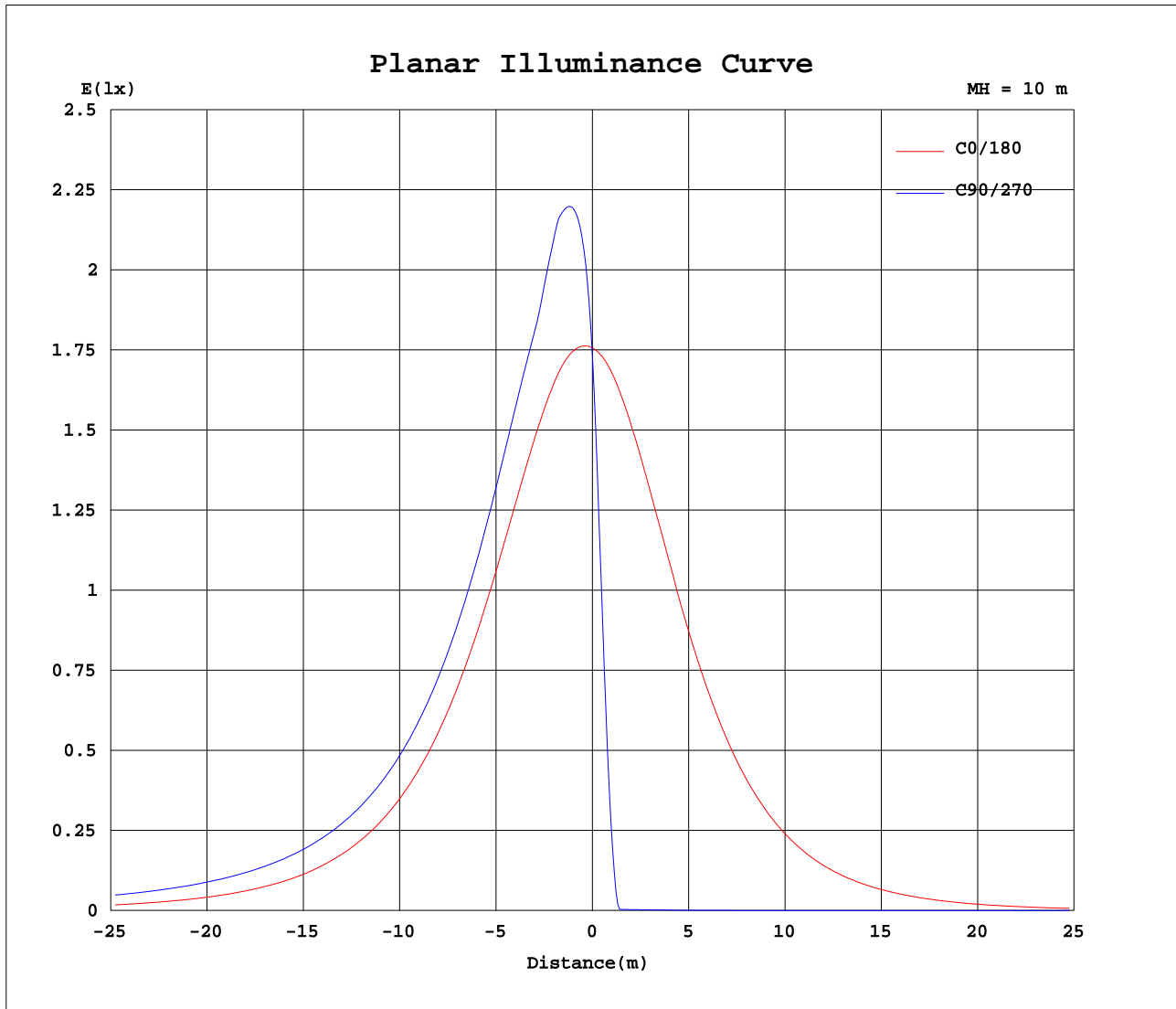
AvgL	cd/m2
L_0~180(65)av	11182
L_0~180(75)av	5896
L_0~180(85)av	1502
L_90~270(65)av	17875
L_90~270(75)av	25433
L_90~270(85)av	67443
L_45(65)av	16639
L_45(75)av	20900
L_45(85)av	50278

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-08

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: 2020-05-08

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:

```