

Low Voltage Track System Module ML26-WW280-7W-940



Light Output Ratio:	100.0%	
Luminaire Power:	6.855 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

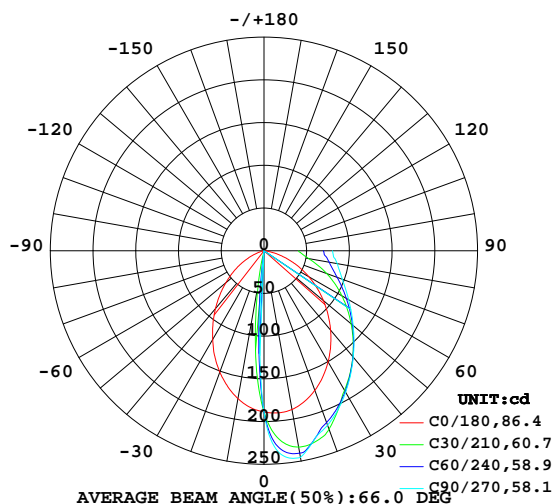
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

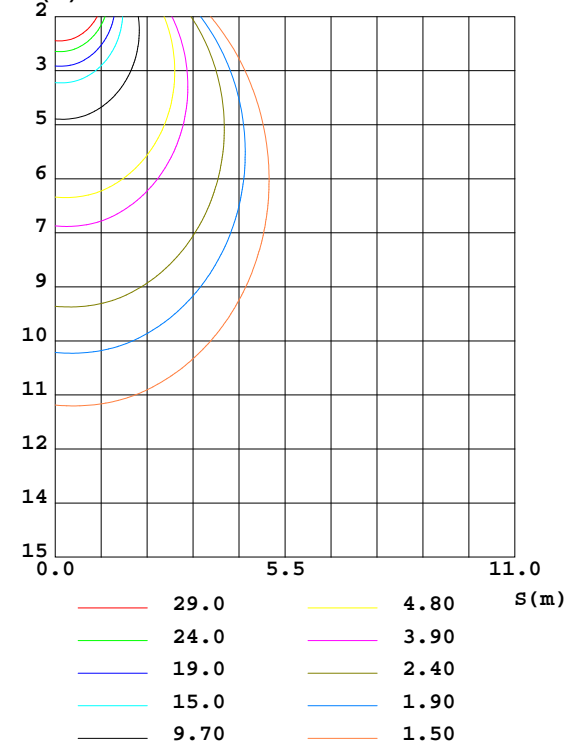
Test:U:48.00V I:0.1428A P:6.855W PF:1.000 Freq:0Hz Lamp Flux:383.486x1 lm		
NAME: ML26-WW280-7W-940	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: L290mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 55.94 lm/W			
MODEL	SAMSUNG-4000K	I _{max} (cd)	252.1	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)	383.49	η UP,DN(C0-180)	0.0,95.2
NOMINAL FLUX(lm)	383.486	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)



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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	188.7	240.6	245.6	248.6	175.7	4.354	0.3815	4.580	0- 10	14.55	14.55	3.79,3.79
20	174.0	218.5	217.3	227.2	151.2	0.3345	0.2449	0.3800	10- 20	35.60	50.14	13.1,13.1
30	150.1	193.0	191.2	198.4	120.2	0.2231	0.1018	0.2534	20- 30	49.84	99.98	26.1,26.1
40	121.3	165.1	162.5	169.3	88.37	0.1072	0.0911	0.1268	30- 40	57.56	157.5	41.1,41.1
50	90.86	137.1	136.3	140.2	58.40	0.0815	0.1042	0.0972	40- 50	58.44	216.0	56.3,56.3
60	60.37	110.1	114.4	111.8	32.15	0.0836	0.1649	0.0905	50- 60	54.11	270.1	70.4,70.4
70	31.23	86.07	97.64	86.32	10.52	0.1457	0.2256	0.1447	60- 70	46.40	316.5	82.5,82.5
80	6.938	67.29	87.01	66.32	0.4968	0.2165	0.3211	0.2215	70- 80	37.19	353.7	92.2,92.2
90	0.3335	57.88	80.22	57.57	0.1026	0.3709	0.3882	0.3483	80- 90	29.80	383.5	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): 187.04 lm

%lum = 48.8%

%lamp = 48.8%

Conical surface Flux(120deg): 270.1 lm

%lum = 70.4%

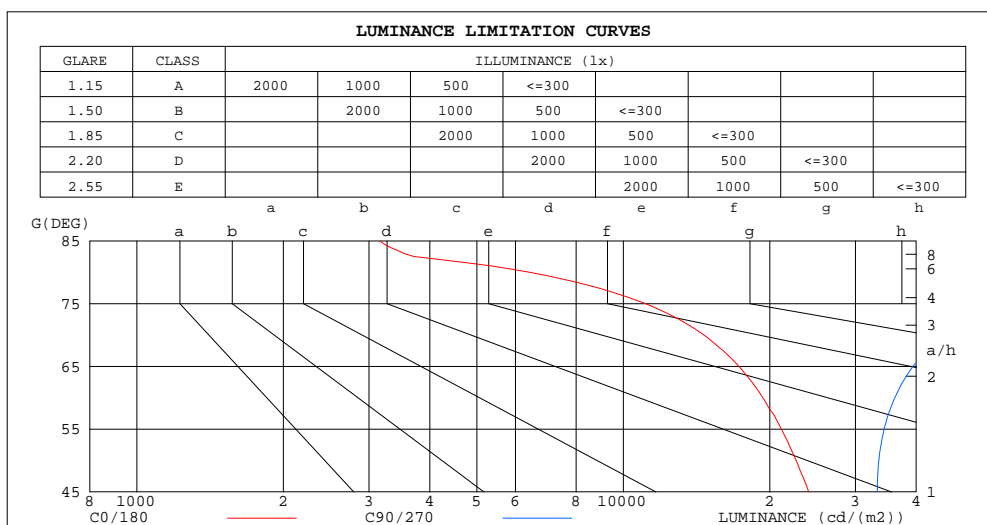
%lamp = 70.4%

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

LUMINANCE LIMITATION CURVES

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SPEC.:4000K	DIM.: L290mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3159	148282
80	6405	79170
75	11094	55944
70	14638	45106
65	17281	39383
60	19355	36153
55	21133	34372
50	22660	33504
45	24053	33284

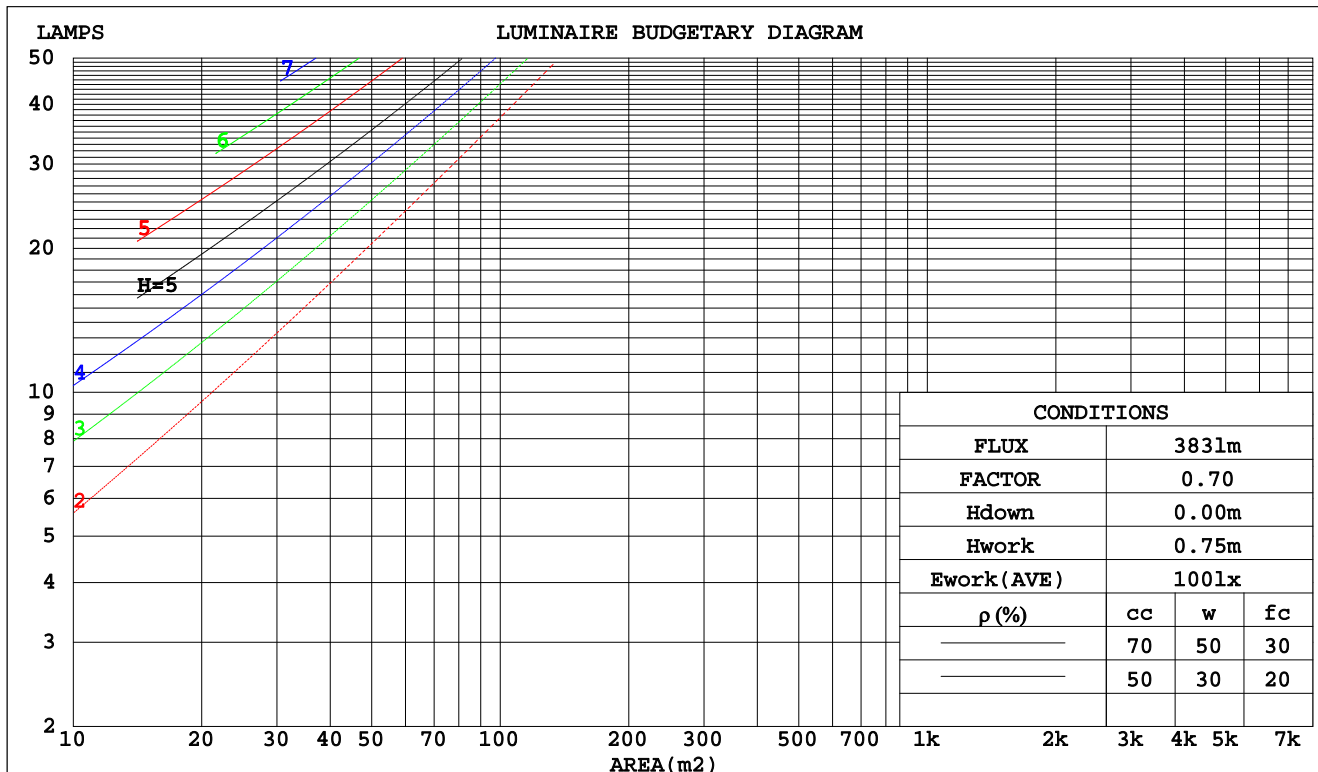
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.150	.046	.268	.147	.045	.259	.143	.044		
4.0	.265	.138	.041	.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	.183	.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	.160	.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	.113	.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 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:

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.1428A P:6.855W PF:1.000 Freq:0Hz Lamp Flux:383.486x1 lm										
NAME: ML26-WW280-7W-940					TYPE:Low Voltage Track System Module					
SPEC.:4000K					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	35.0	35.2
4H	31.6	33.0	32.0	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	36.7	37.9	38.2
8H	32.0	33.3	32.3	33.5	33.8	37.3	38.6	37.6	38.9	39.2
12H	32.0	33.2	32.3	33.5	33.8	38.4	39.6	38.7	39.9	40.2
4H 2H	30.8	32.2	31.1	32.4	32.7	31.5	33.0	31.9	33.2	33.5
3H	32.6	33.9	32.9	34.2	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	34.5	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	40.2	40.5
12H	34.3	35.3	34.8	35.7	36.1	40.0	41.0	40.5	41.3	41.8
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	39.8	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, 383.5 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -3.3$)

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Humidity:58%
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Remarks:

UTILIZATION FACTORS TABLE

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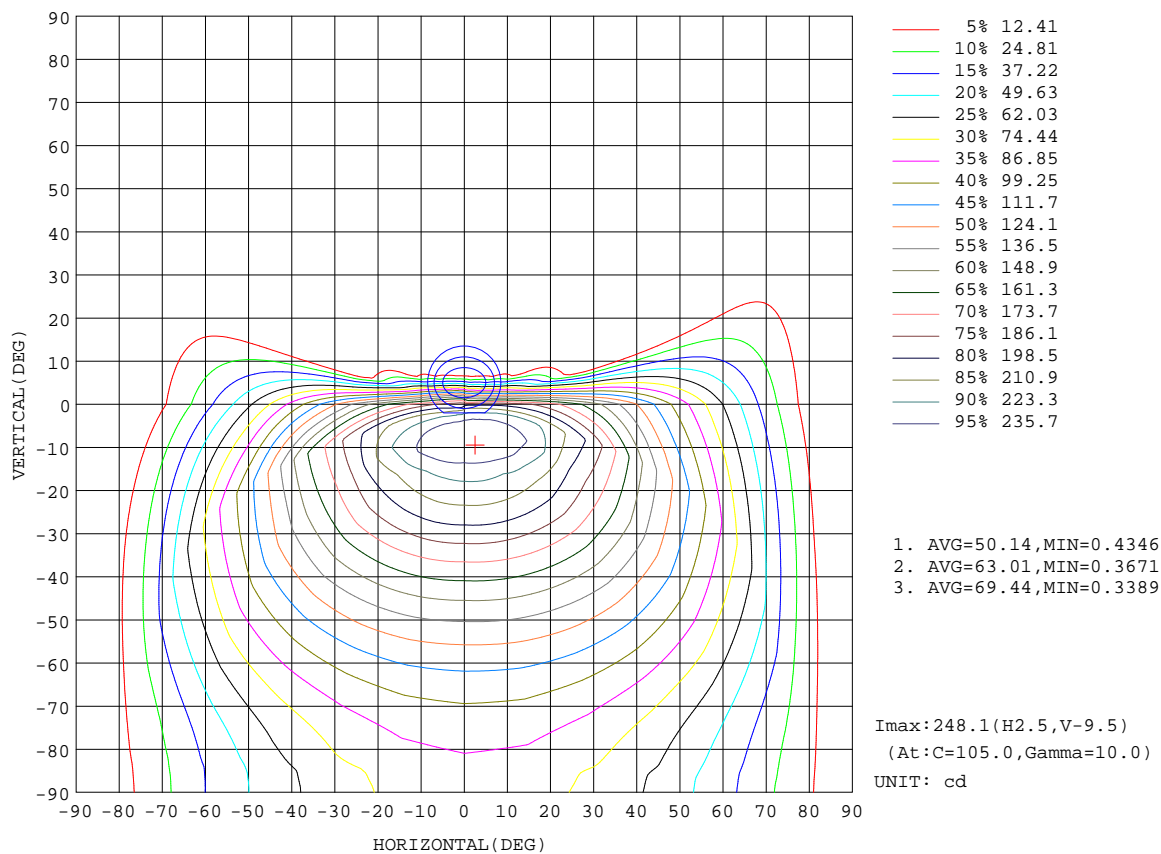
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	65	53	46	64	53	45	62	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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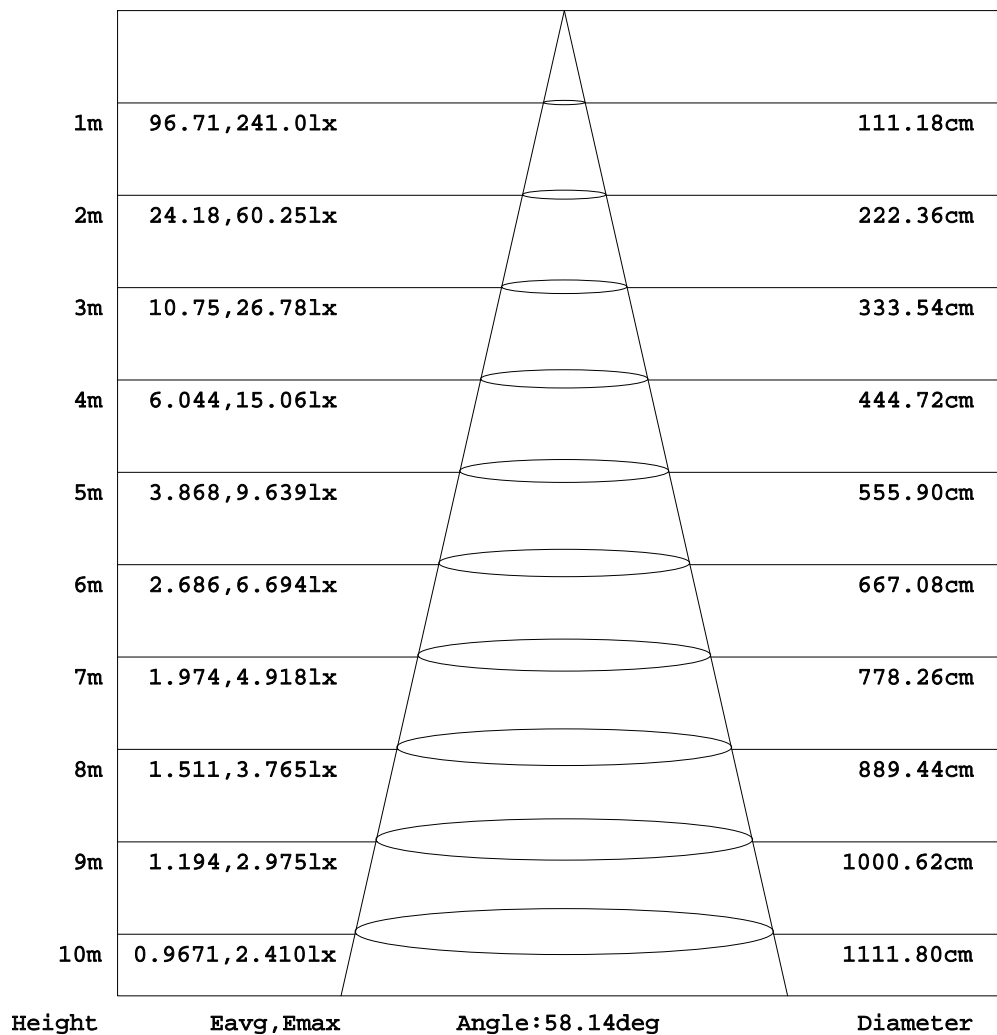
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AAI Figure

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Flux out:97.26 lm



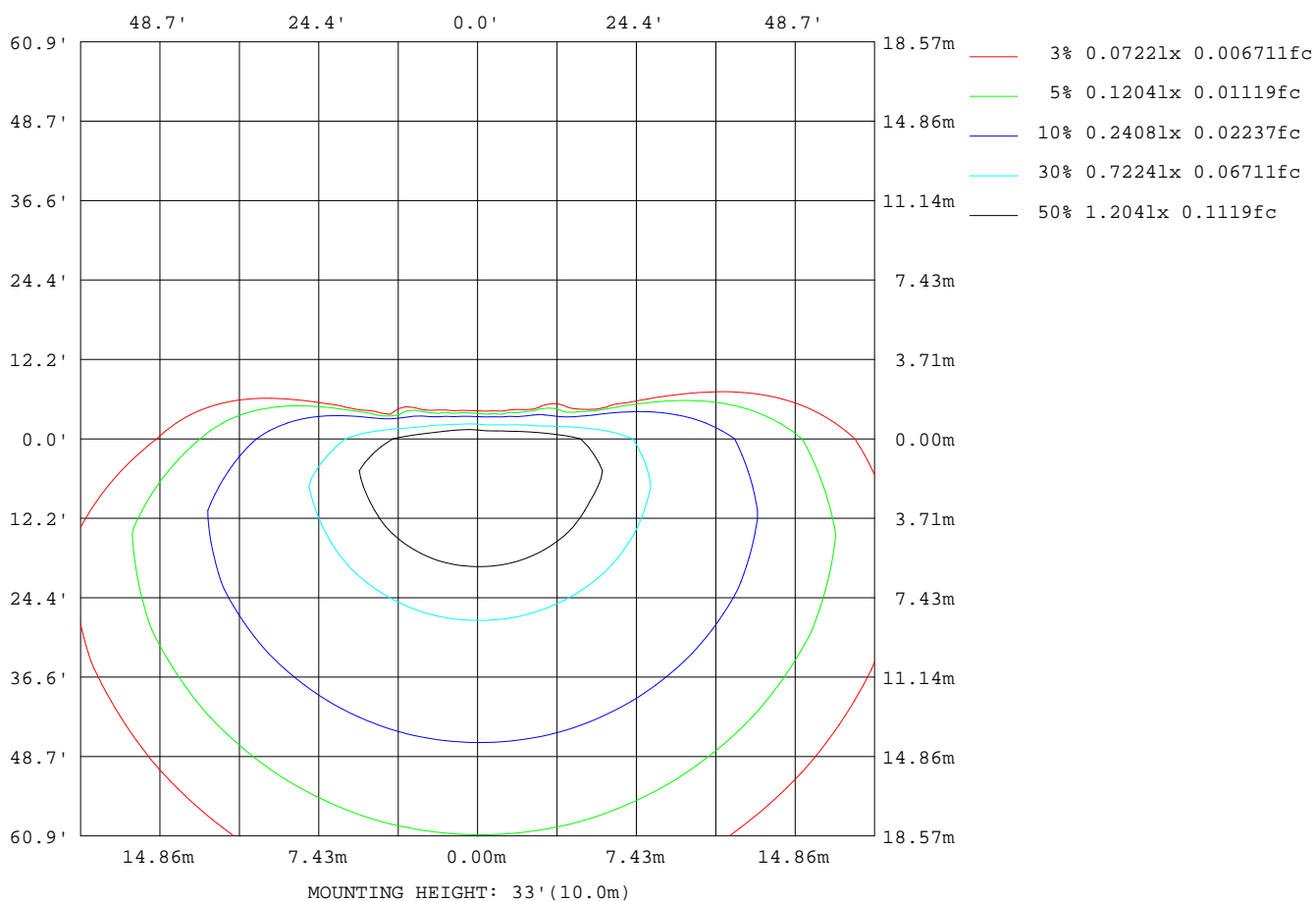
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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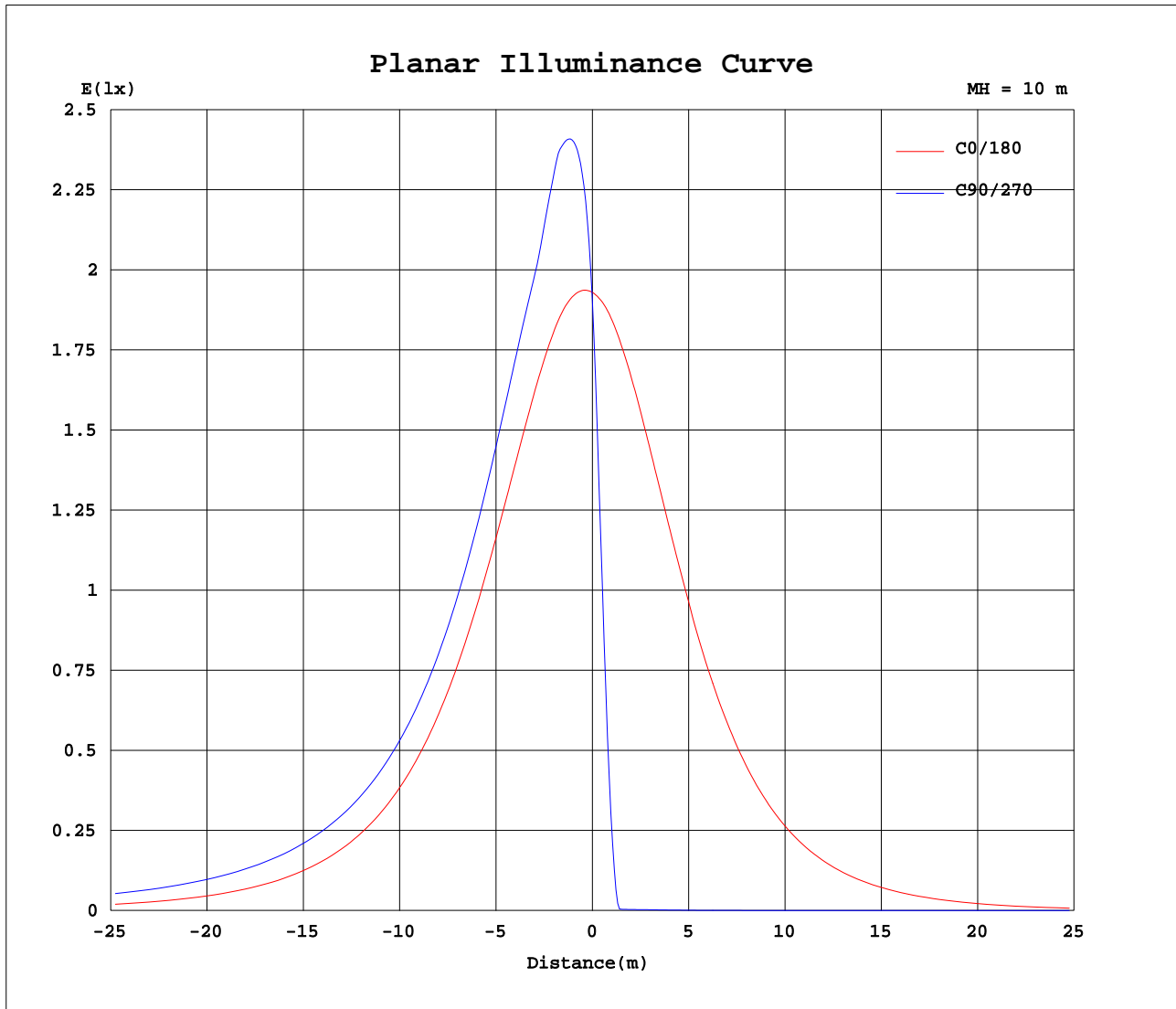
AvgL	cd/m2
L_0~180(65)av	12238
L_0~180(75)av	6430
L_0~180(85)av	1650
L_90~270(65)av	19571
L_90~270(75)av	27830
L_90~270(85)av	73874
L_45(65)av	18232
L_45(75)av	22887
L_45(85)av	55077

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:

```