

Low Voltage Track System Module ML26-WW280-7W-927



Light Output Ratio:	100.0%	
Luminaire Power:	6.884 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

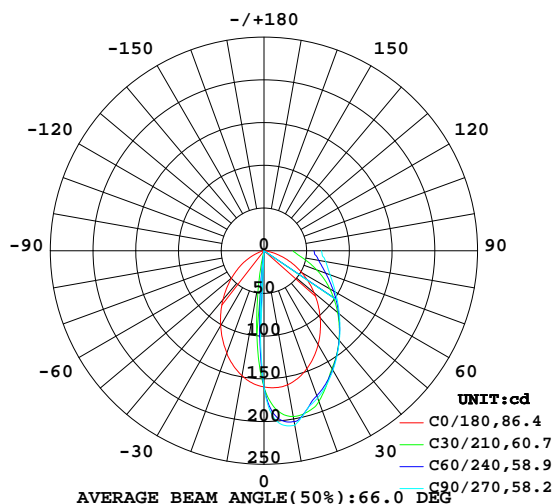
γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

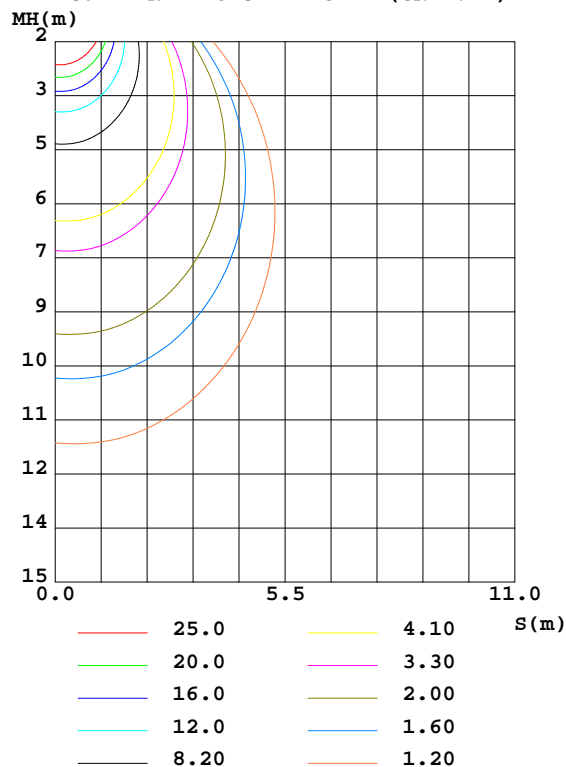
Test:U:48.00V I:0.1434A P:6.884W PF:1.000 Freq:0Hz Lamp Flux:323.59lx1 lm		
NAME: ML26-WW280-7W-927	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: L290mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 47.01 lm/W			
MODEL	SAMSUNG-2700K	I <sub>max</sub> (cd)	212.8	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)	323.59	η UP,DN(C0-180)	0.0,95.2
NOMINAL FLUX(lm)	323.591	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  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
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γ Range: 0 - 90DEG  
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### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	159.3	203.1	207.2	210.1	148.5	3.656	0.3185	3.791	0- 10	12.28	12.28	3.8,3.8
20	146.9	184.5	183.5	192.0	127.5	0.2852	0.2015	0.3192	10- 20	30.06	42.34	13.1,13.1
30	126.8	163.0	161.4	167.7	101.6	0.1888	0.0845	0.2151	20- 30	42.09	84.42	26.1,26.1
40	102.4	139.5	137.2	143.2	74.74	0.0922	0.0802	0.1065	30- 40	48.62	133.0	41.1,41.1
50	76.75	115.3	115.0	117.9	49.45	0.0686	0.0889	0.0837	40- 50	49.29	182.3	56.3,56.3
60	50.95	92.99	96.52	94.48	27.25	0.0665	0.1367	0.0747	50- 60	45.65	228.0	70.5,70.5
70	26.36	72.67	82.40	72.96	8.933	0.1179	0.1908	0.1221	60- 70	39.15	267.1	82.6,82.6
80	5.839	56.83	73.43	56.06	0.4223	0.1822	0.2688	0.1854	70- 80	31.35	298.5	92.2,92.2
90	0.2845	48.89	67.40	48.67	0.0877	0.3109	0.3251	0.2874	80- 90	25.10	323.6	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): 157.93 lm

%lum = 48.8%

%lamp = 48.8%

Conical surface Flux(120deg): 227.99 lm

%lum = 70.5%

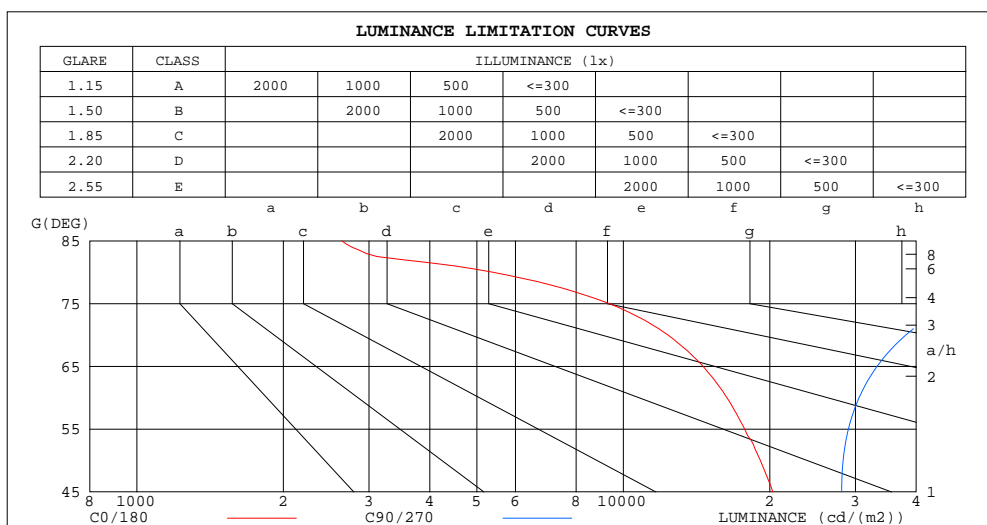
%lamp = 70.5%

C Range: 0 - 360DEG  
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Temperature:25.3DEG  
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Test Date:2020-05-08

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:5.850m [K=1.0000]  
Remarks:

### LUMINANCE LIMITATION CURVES

Test:U:48.00V I:0.1434A P:6.884W PF:1.000 Freq:0Hz Lamp Flux:323.59lx1 lm		
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SPEC.:2700K	DIM.: L290mm*W22mm*H81mm	
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LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2638	124633
80	5387	66859
75	9348	47237
70	12348	38092
65	14586	33239
60	16327	30519
55	17755	29025
50	19130	28298
45	20301	28113

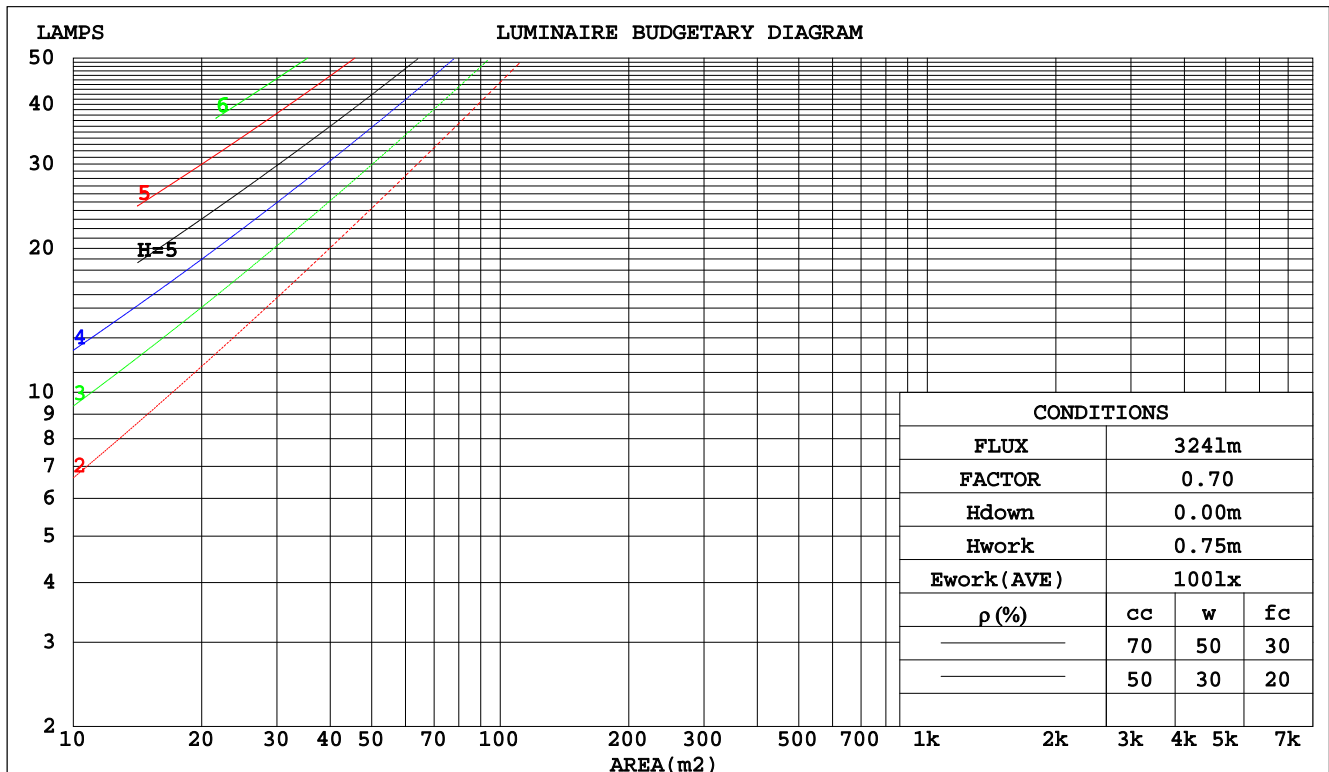
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.70	.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	.50	.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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Humidity:58%  
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## WEC AND CCEC

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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						Wall Exitance Coefficients(WEC)											
0.0																		
1.0	.381	.216	.069	.373	.213	.068	.360	.206	.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	.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	.217	.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  
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:

## UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.1434A P:6.884W PF:1.000 Freq:0Hz Lamp Flux:323.591x1 lm										
NAME: ML26-WW280-7W-927					TYPE:Low Voltage Track System Module					
SPEC.:2700K					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	33.1	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	36.6	37.9	38.2
8H	32.0	33.3	32.3	33.5	33.8	37.3	38.6	37.6	38.9	39.1
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	40.1	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	38.0
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	39.8	40.3
8H	36.7	37.3	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, 323.6 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -3.9$ )

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C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
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$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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

Test:U:48.00V I:0.1434A P:6.884W PF:1.000 Freq:0Hz Lamp Flux:323.59lx1 lm		
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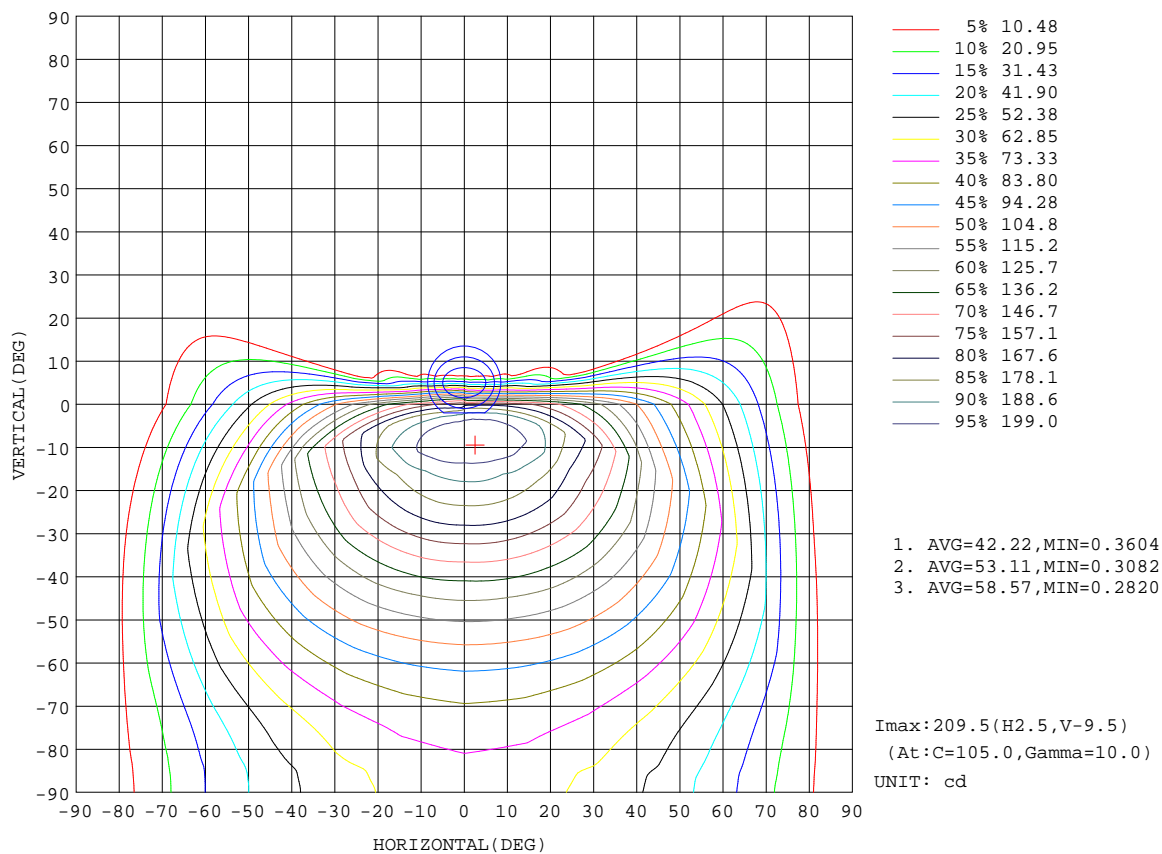
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	37	30
0.80	65	53	46	64	53	45	62	52	45	38
1.00	73	61	54	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	81
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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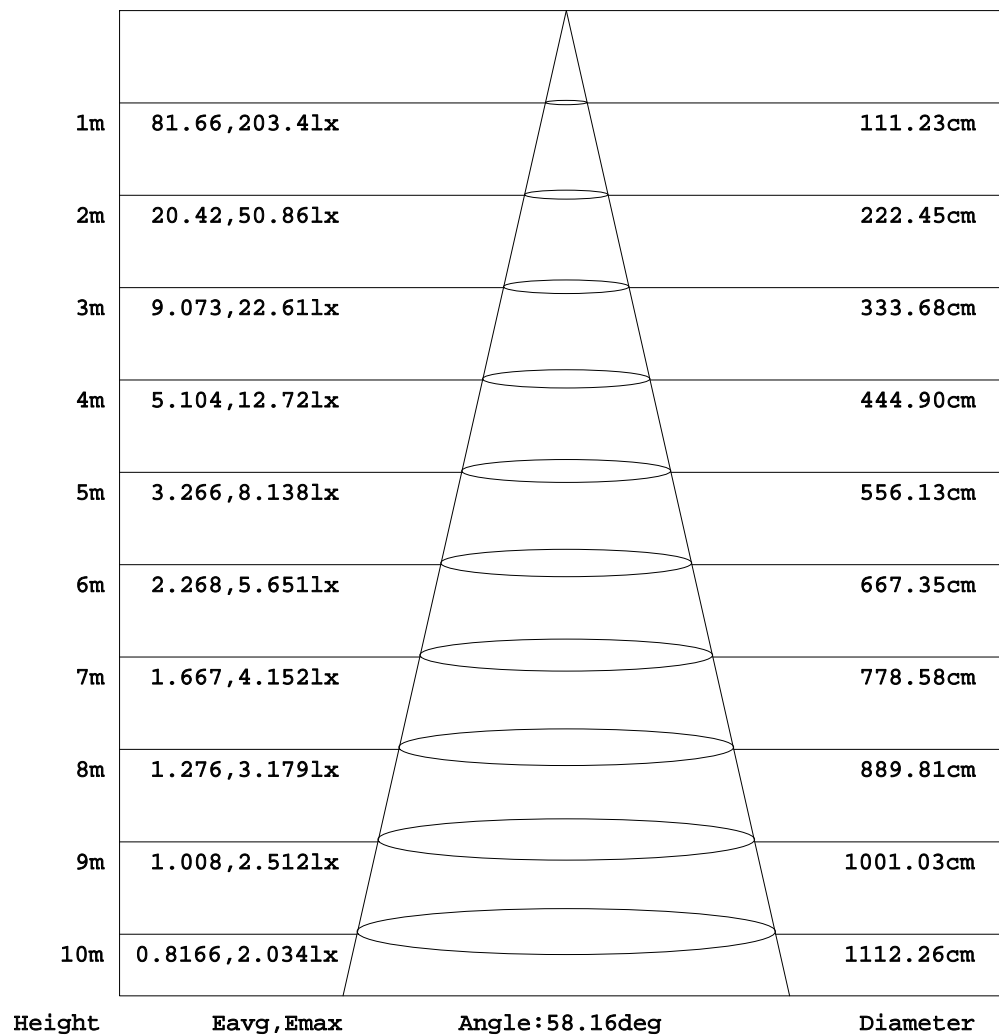
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AAI Figure

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Flux out:82.12 lm



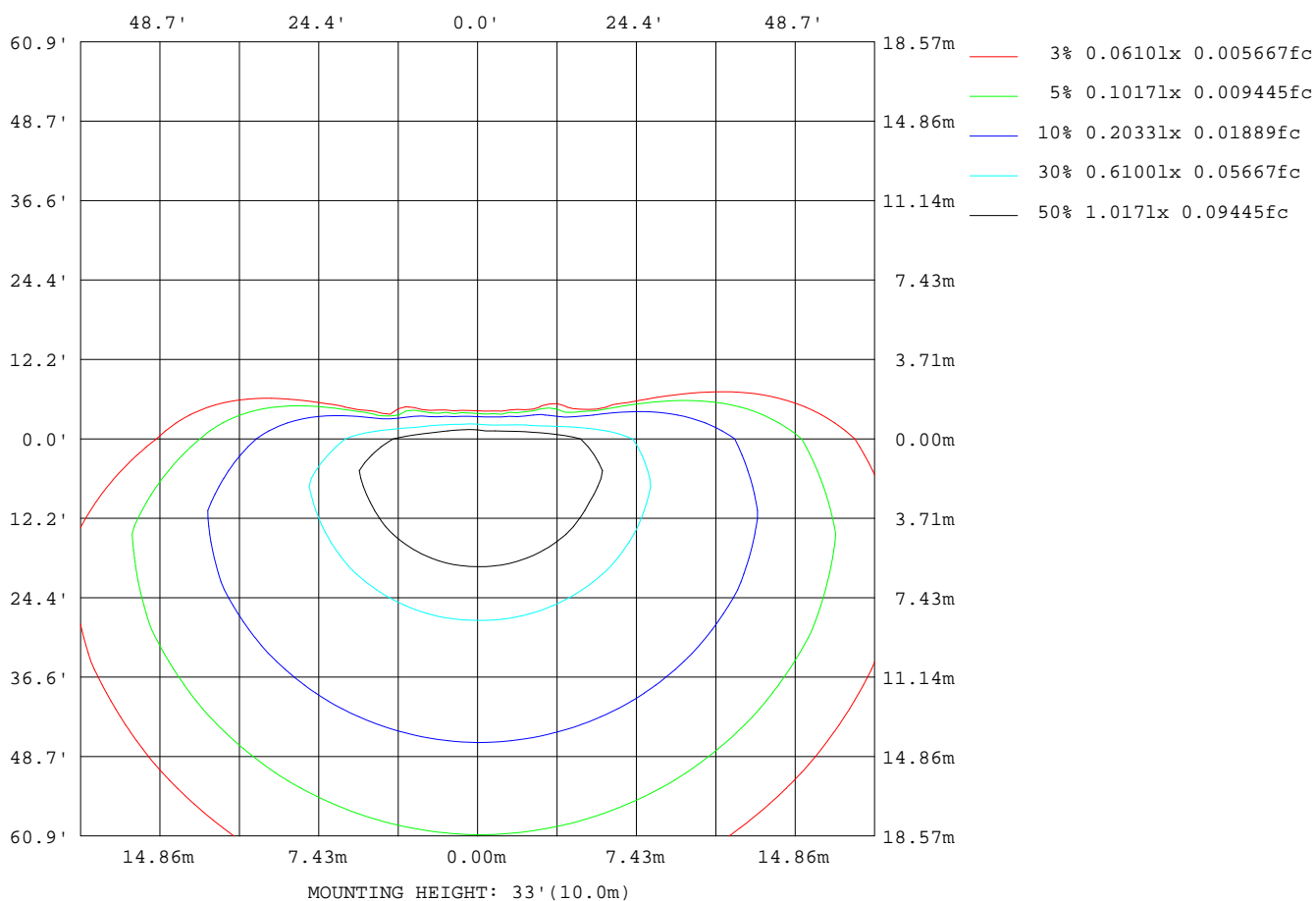
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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### LED Avg.L Report

Test:U:48.00V I:0.1434A P:6.884W PF:1.000 Freq:0Hz Lamp Flux:323.591x1 lm		
NAME: ML26-WW280-7W-927	TYPE:Low Voltage Track System Module	
SPEC.:2700K	DIM.: L290mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

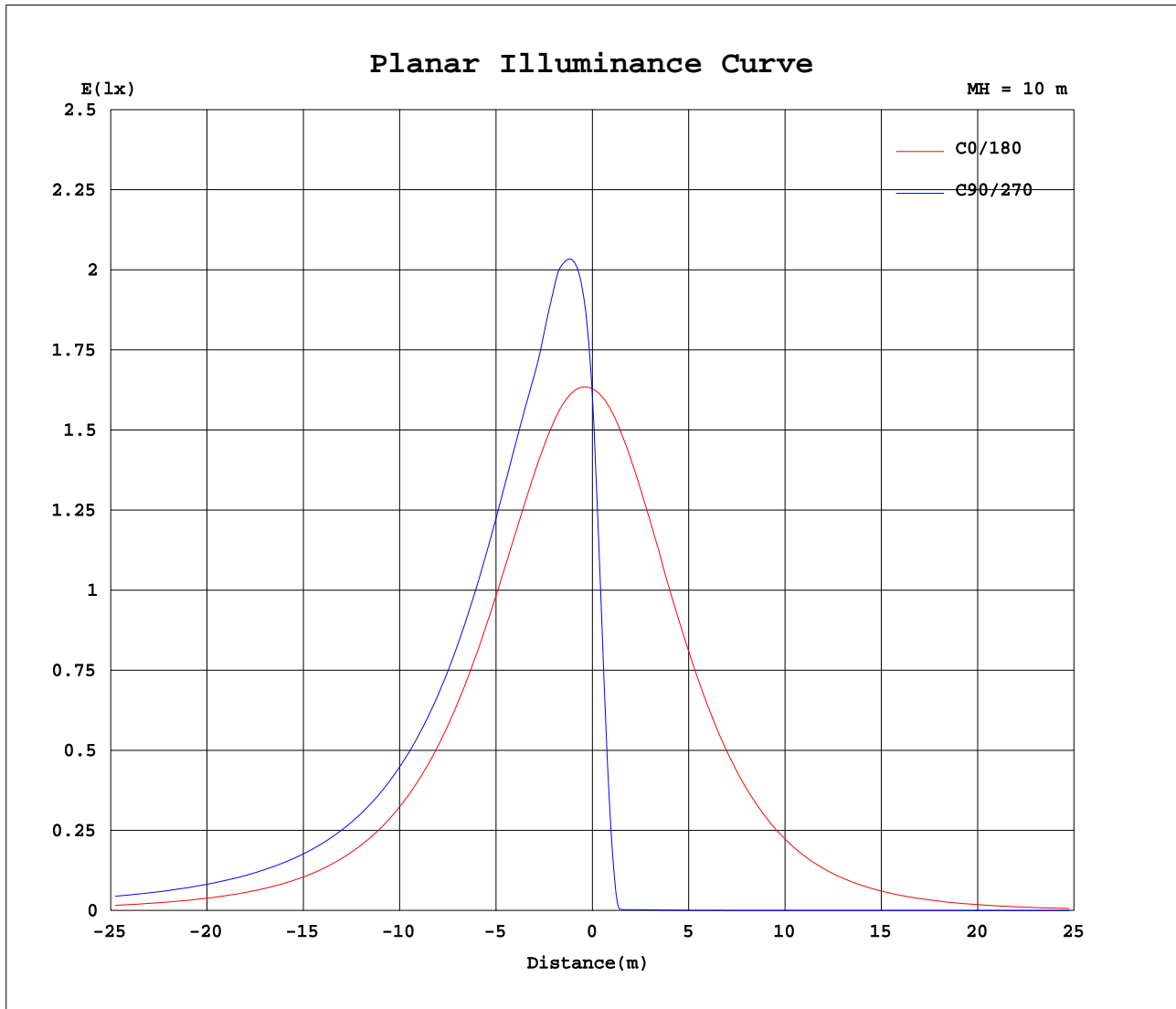
AvgL	cd/m2
L_0~180(65)av	10353
L_0~180(75)av	5435
L_0~180(85)av	1377
L_90~270(65)av	16509
L_90~270(75)av	23485
L_90~270(85)av	62060
L_45(65)av	15404
L_45(75)av	19330
L_45(85)av	46534

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:

```