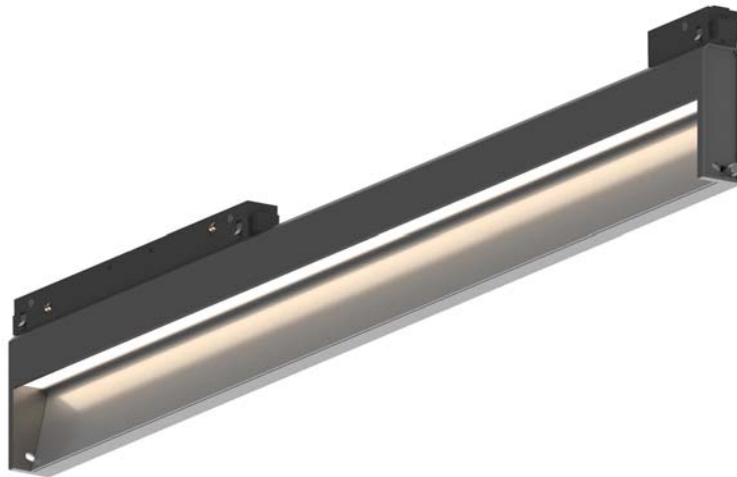


Low Voltage Track System Module LX26-WW560-13W-940



Light Output Ratio:	100.0%	
Luminaire Power:	12.97 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

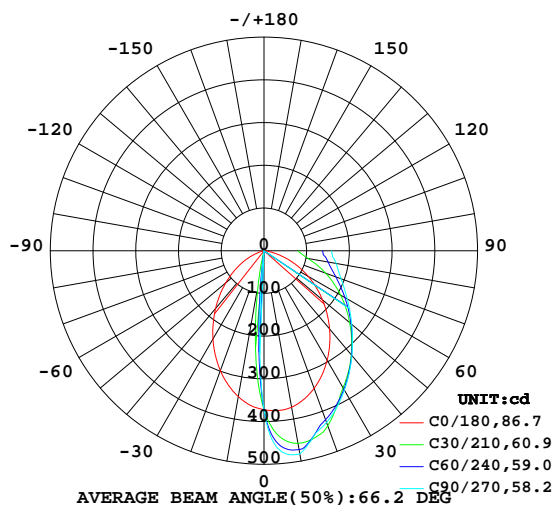
γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

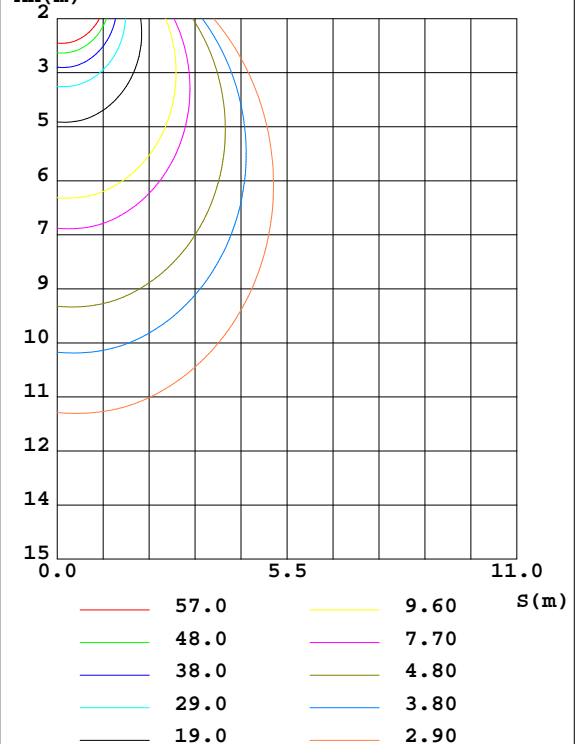
Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:755.534x1 lm		
NAME: ML26-WW560-13W-940	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 58.27 lm/W			
MODEL	SAMSUNG-4000K	I <sub>max</sub> (cd)	494.7	S/MH(C0/180)	1.00
NOMINAL POWER(W)	13	LOR(%)	100.0	S/MH(C90/270)	0.11
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	755.53	η UP,DN(C0-180)	0.0,95.1
NOMINAL FLUX(lm)	755.534	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,4.9
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  
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:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	371.9	472.1	482.8	489.3	346.8	9.340	0.7764	9.273	0- 10	28.66	28.66	3.79,3.79
20	342.9	428.9	427.8	447.1	298.8	0.6593	0.5053	0.7589	10- 20	70.04	98.70	13.1,13.1
30	295.8	379.5	376.7	390.5	239.0	0.4390	0.2275	0.5032	20- 30	98.13	196.8	26.1,26.1
40	238.9	324.8	320.2	333.2	176.3	0.2078	0.1929	0.2584	30- 40	113.4	310.2	41.1,41.1
50	178.9	269.7	268.4	275.7	116.5	0.1592	0.2040	0.1925	40- 50	115.1	425.4	56.3,56.3
60	119.2	217.5	225.0	220.8	64.41	0.1775	0.3149	0.1879	50- 60	106.7	532.1	70.4,70.4
70	61.04	169.9	192.1	170.5	21.14	0.2995	0.4406	0.3079	60- 70	91.43	623.5	82.5,82.5
80	13.56	132.8	171.5	131.2	1.011	0.4429	0.6230	0.4507	70- 80	73.25	696.7	92.2,92.2
90	0.6604	114.2	158.1	114.2	0.2045	0.7490	0.7747	0.6954	80- 90	58.80	755.5	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): 368.33 lm

%lum = 48.8%

%lamp = 48.8%

Conical surface Flux(120deg): 532.05 lm

%lum = 70.4%

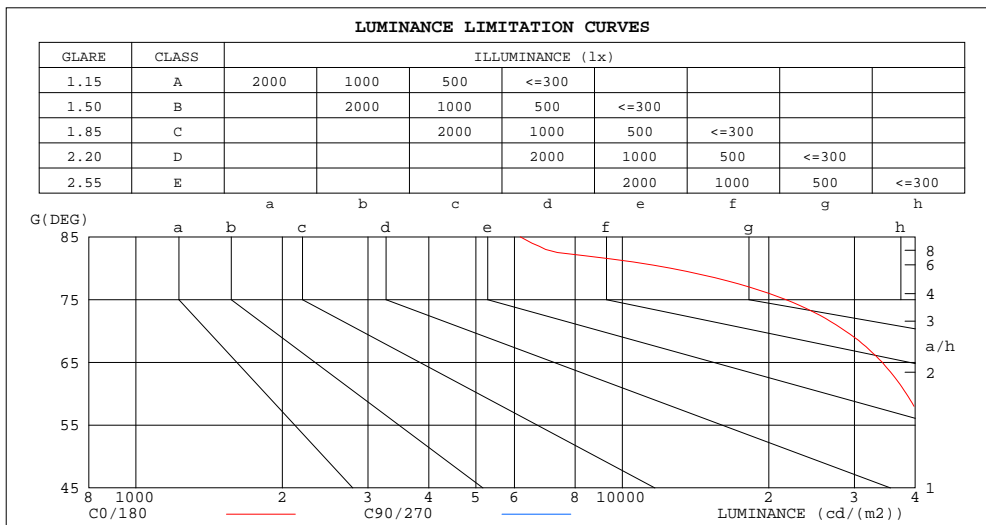
%lamp = 70.4%

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:

**LUMINANCE LIMITATION CURVES**

Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:755.534x1 lm		
NAME: ML26-WW560-13W-940	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	6169	292195
80	12566	155976
75	21674	110100
70	28712	88706
65	34220	77389
60	38360	71075
55	41746	67593
50	44780	65935
45	47547	65518

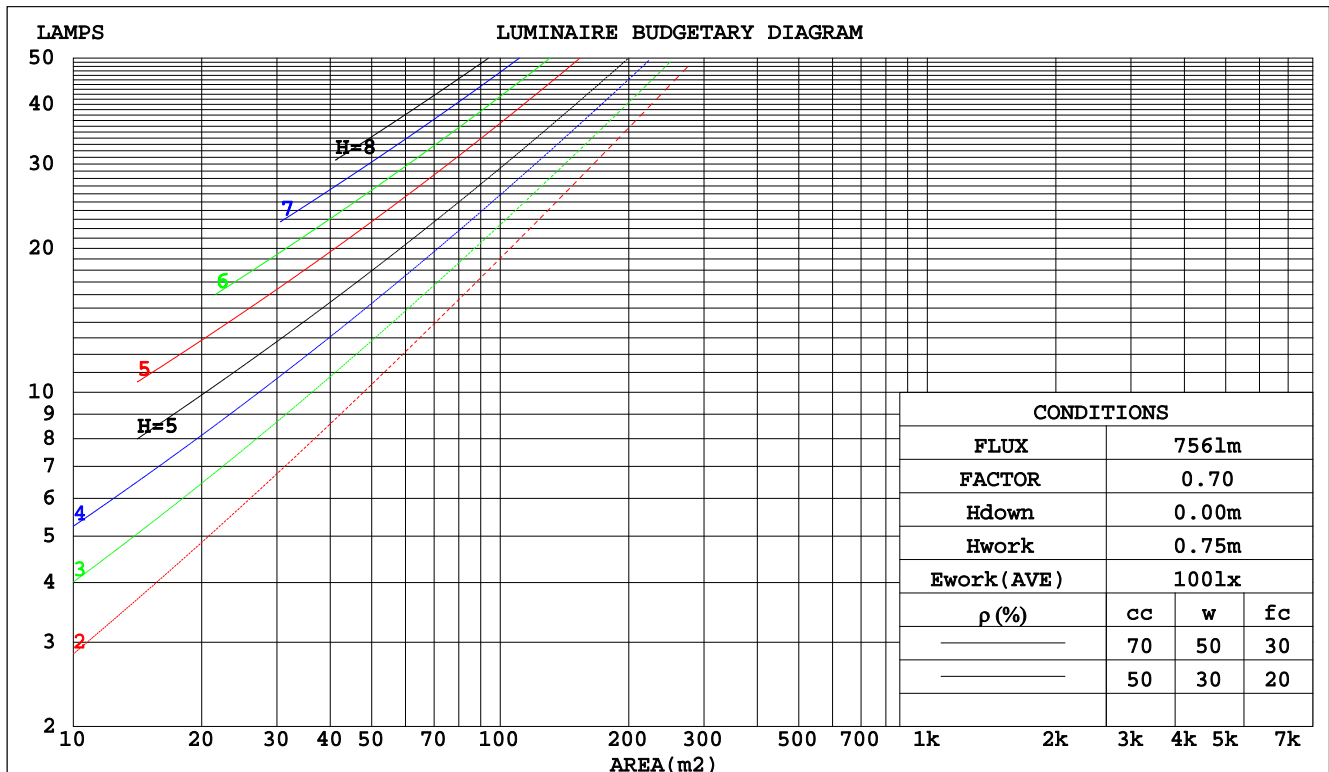
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-05-08

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:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:755.534x1 lm		
NAME: ML26-WW560-13W-940	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: L570mm*W22mm*H81mm	
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						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	1.00	.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	.29	.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



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:

## WEC AND CCEC

Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:755.534x1 lm		
NAME: ML26-WW560-13W-940	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: L570mm*W22mm*H81mm	
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	.381	.217	.069	.374	.213	.068	.360	.207	.066	.348	.200	.064	.336	.195	.063			
2.0	.330	.181	.056	.324	.178	.055	.312	.173	.054	.301	.169	.053	.291	.164	.052			
3.0	.294	.157	.047	.288	.154	.046	.278	.151	.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	.205	.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	.076	.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	.048	.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  
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:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:755.534x1 lm										
NAME: ML26-WW560-13W-940					TYPE:Low Voltage Track System Module					
SPEC.:4000K					DIM.: L570mm*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	32.9	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	32.3	33.5	33.8	36.3	37.7	36.6	37.9	38.2
8H	32.0	33.3	32.3	33.6	33.9	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	33.0	34.2	34.5	34.2	35.5	34.6	35.8	36.1
4H	33.4	34.6	33.8	34.9	35.3	35.8	37.0	36.2	37.3	37.7
6H	34.1	35.1	34.5	35.5	35.8	37.7	38.8	38.1	39.1	39.5
8H	34.3	35.2	34.7	35.6	36.0	38.8	39.8	39.2	40.2	40.5
12H	34.4	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	35.8	36.1	36.3	37.3	36.7	37.7	38.1
6H	35.5	36.3	35.9	36.7	37.2	38.5	39.3	38.9	39.7	40.2
8H	36.0	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	37.5	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	37.7	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, 755.5 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -1.0$ )

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:

### UTILIZATION FACTORS TABLE

Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:755.534x1 lm		
NAME: ML26-WW560-13W-940	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

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) x 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	69	62	53	45
1.25	80	68	61	78	68	60	75	66	59	52
1.50	85	74	66	83	73	66	80	71	65	56
2.00	91	82	74	89	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										

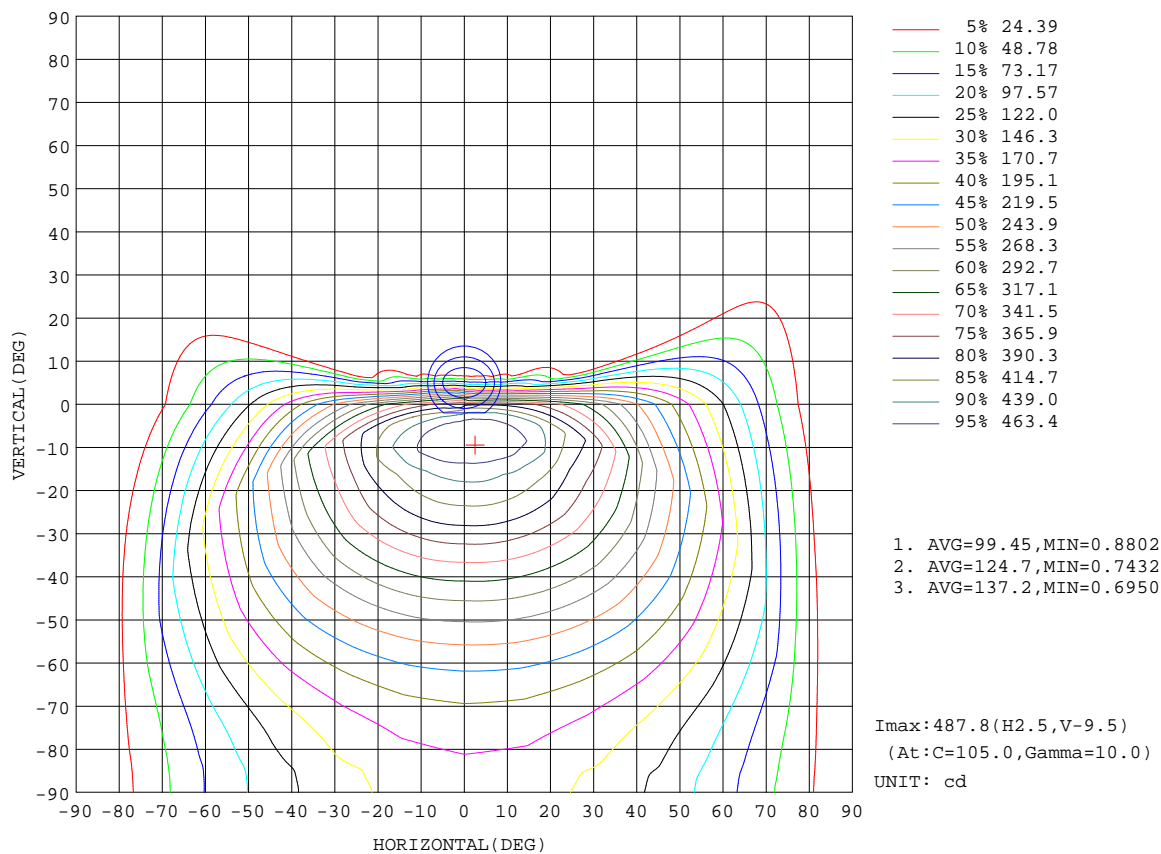
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-05-08

$\gamma$  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:



ISOCANDELA DIAGRAM

Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:755.534x1 lm		
NAME: ML26-WW560-13W-940	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		



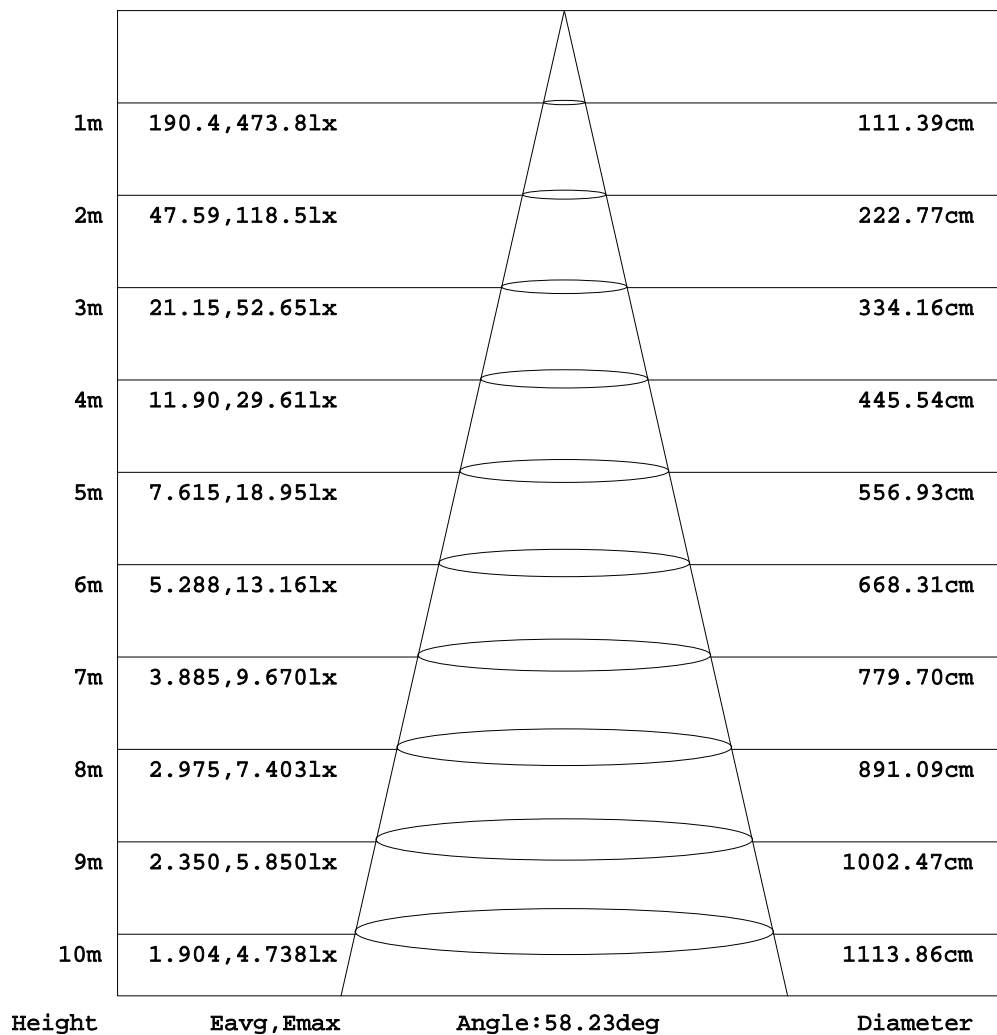
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-05-08

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:

AAI Figure

Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:755.534x1 lm		
NAME: ML26-WW560-13W-940	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

Flux out:191.4 lm



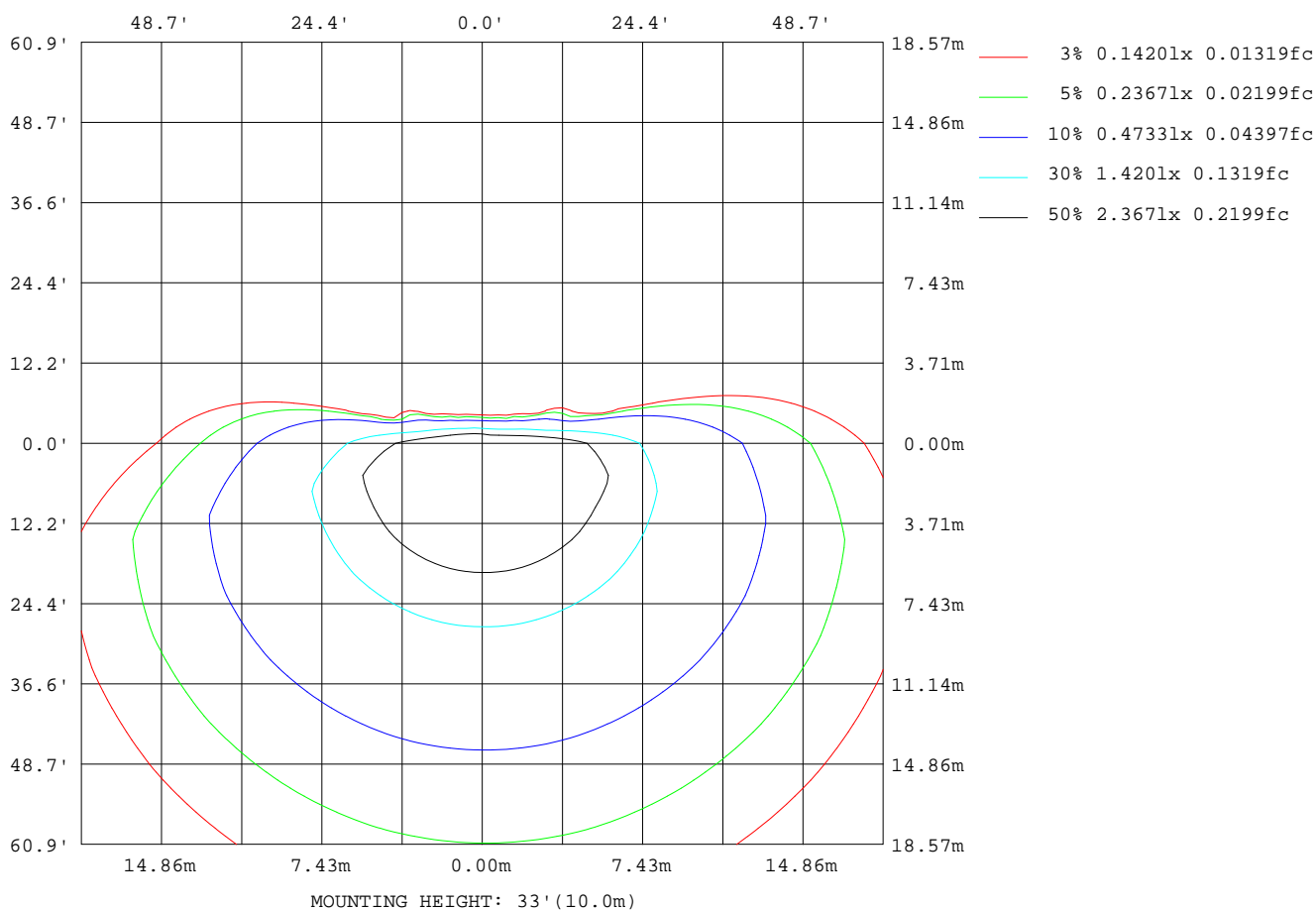
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

ISOLUX DIAGRAM

Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:755.534x1 lm		
NAME: ML26-WW560-13W-940	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		



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:

### LED Avg.L Report

Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:755.534x1 lm		
NAME: ML26-WW560-13W-940	TYPE:Low Voltage Track System Module	
SPEC.:4000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

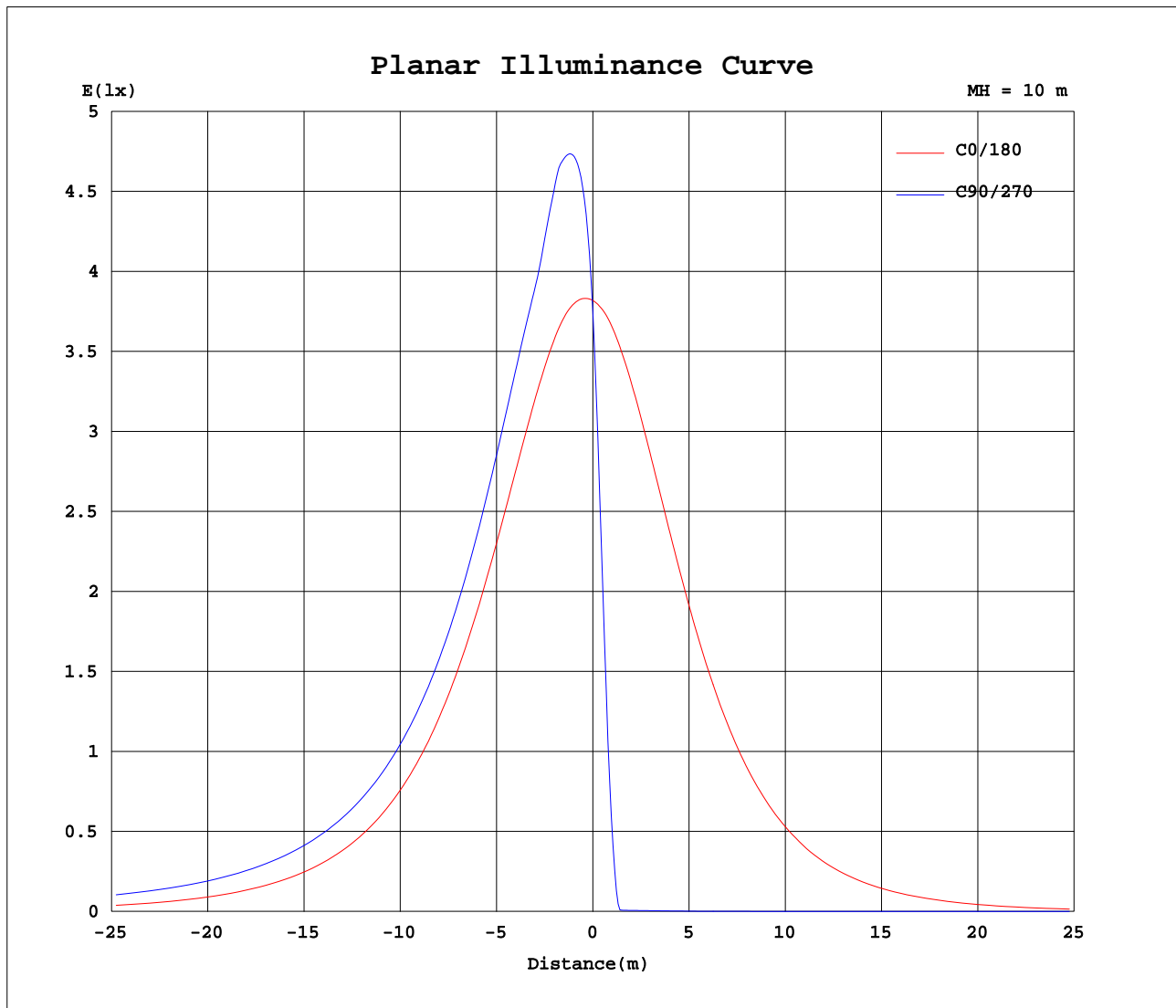
AvgL	cd/m2
L_0~180(65)av	24288
L_0~180(75)av	12579
L_0~180(85)av	3228
L_90~270(65)av	38477
L_90~270(75)av	54795
L_90~270(85)av	145636
L_45(65)av	36012
L_45(75)av	45183
L_45(85)av	108986

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:

```