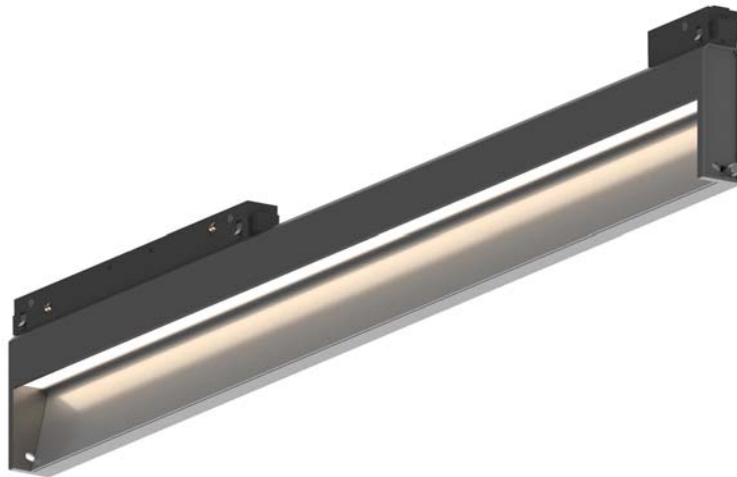


Low Voltage Track System Module ML26-WW560-13W-930



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

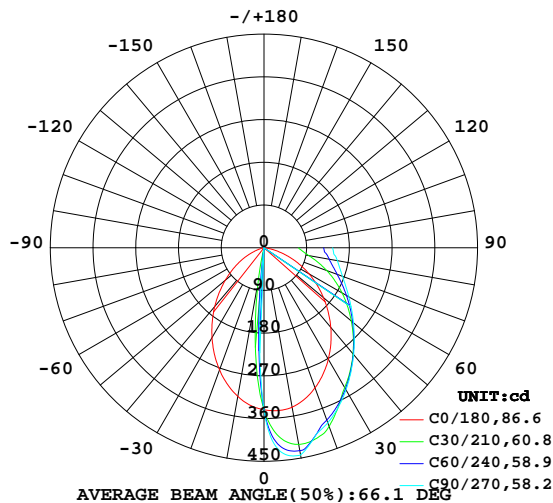
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

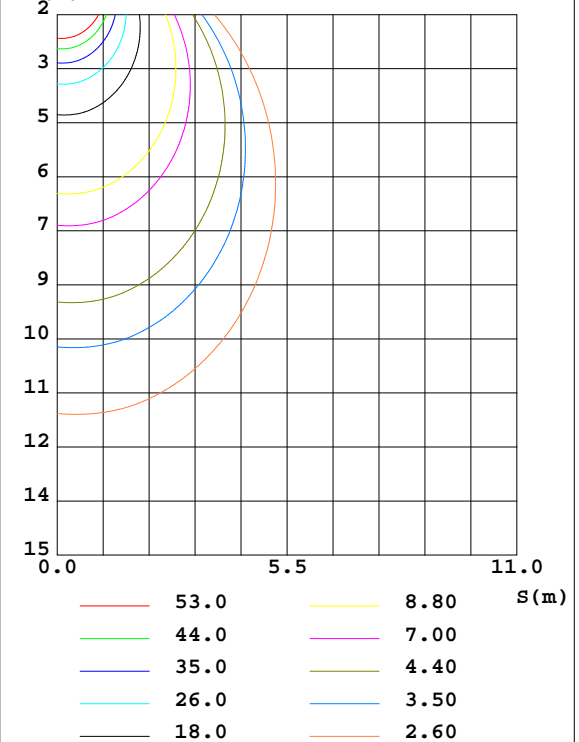
Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:691.05lx1 lm		
NAME: ML26-WW560-13W-930	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 53.30 lm/W			
MODEL	SAMSUNG-3000K	I _{max} (cd)	454.5	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)	691.05	η UP,DN(C0-180)	0.0,95.1
NOMINAL FLUX(lm)	691.051	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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	341.1	434.1	443.3	447.3	318.0	7.914	0.7050	8.736	0- 10	26.29	26.29	3.8,3.8
20	314.3	394.4	392.6	408.6	274.0	0.6017	0.4569	0.6810	10- 20	64.17	90.46	13.1,13.1
30	271.1	348.6	345.6	357.0	219.1	0.3998	0.2045	0.4549	20- 30	89.81	180.3	26.1,26.1
40	218.9	298.3	293.7	304.6	161.5	0.1913	0.1785	0.2332	30- 40	103.7	284.0	41.1,41.1
50	163.8	247.7	246.1	252.0	106.6	0.1483	0.1852	0.1720	40- 50	105.3	389.3	56.3,56.3
60	109.1	199.7	206.3	201.8	58.85	0.1632	0.2919	0.1741	50- 60	97.55	486.9	70.5,70.5
70	55.85	156.0	176.1	155.8	19.39	0.2749	0.4050	0.2782	60- 70	83.58	570.4	82.5,82.5
80	12.28	121.9	157.1	119.8	0.9284	0.4060	0.5749	0.4093	70- 80	66.93	637.4	92.2,92.2
90	0.5936	104.9	144.8	104.1	0.1879	0.6854	0.7141	0.6334	80- 90	53.69	691.1	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): 337.15 lm

%lum = 48.8%

%lamp = 48.8%

Conical surface Flux(120deg): 486.85 lm

%lum = 70.5%

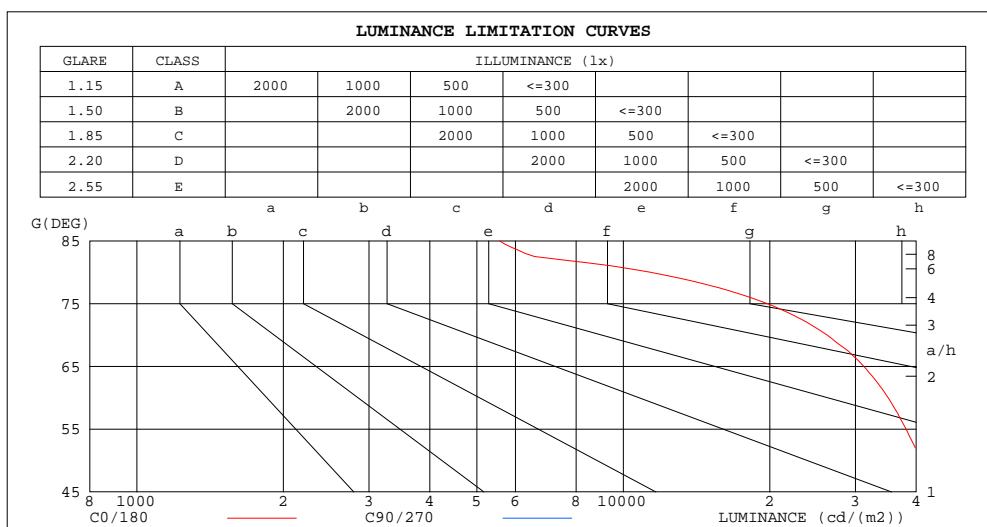
%lamp = 70.5%

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:

LUMINANCE LIMITATION CURVES

Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:691.05lx1 lm		
NAME: ML26-WW560-13W-930	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5562	266725
80	11352	142397
75	19754	100558
70	26210	81071
65	31217	70741
60	35008	64963
55	38115	61784
50	40907	60275
45	43431	59899

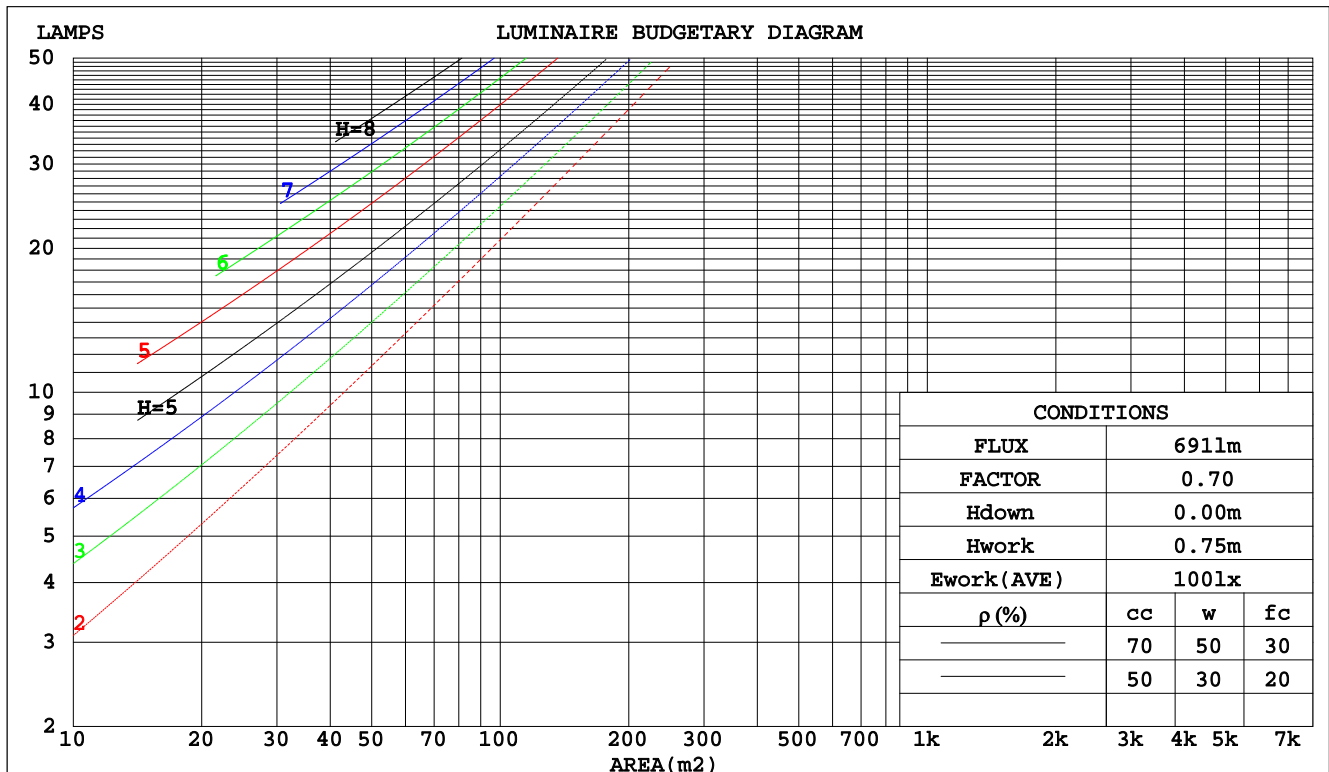
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-08

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:691.05lx1 lm		
NAME: ML26-WW560-13W-930	TYPE:Low Voltage Track System Module	
SPEC.:3000K	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	.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	.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



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:691.051x1 lm		
NAME: ML26-WW560-13W-930	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

pcc	80%			70%			50%			30%			10%			0		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0		
ρfc	20%			20%			20%			20%			20%			0		
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)											
0.0																		
1.0	.381	.217	.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	.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
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:691.05lx1 lm										
NAME: ML26-WW560-13W-930					TYPE:Low Voltage Track System Module					
SPEC.:3000K					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	32.8	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	32.3	33.5	33.8	36.3	37.6	36.6	37.9	38.2
8H	32.0	33.3	32.3	33.5	33.8	37.3	38.6	37.6	38.8	39.1
12H	32.0	33.2	32.3	33.5	33.8	38.3	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	34.2	35.2	34.7	35.6	36.0	38.8	39.8	39.2	40.1	40.5
12H	34.4	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	37.2	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	37.5	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, 691.1 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -1.3$)

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:

UTILIZATION FACTORS TABLE

Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:691.05lx1 lm		
NAME: ML26-WW560-13W-930	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

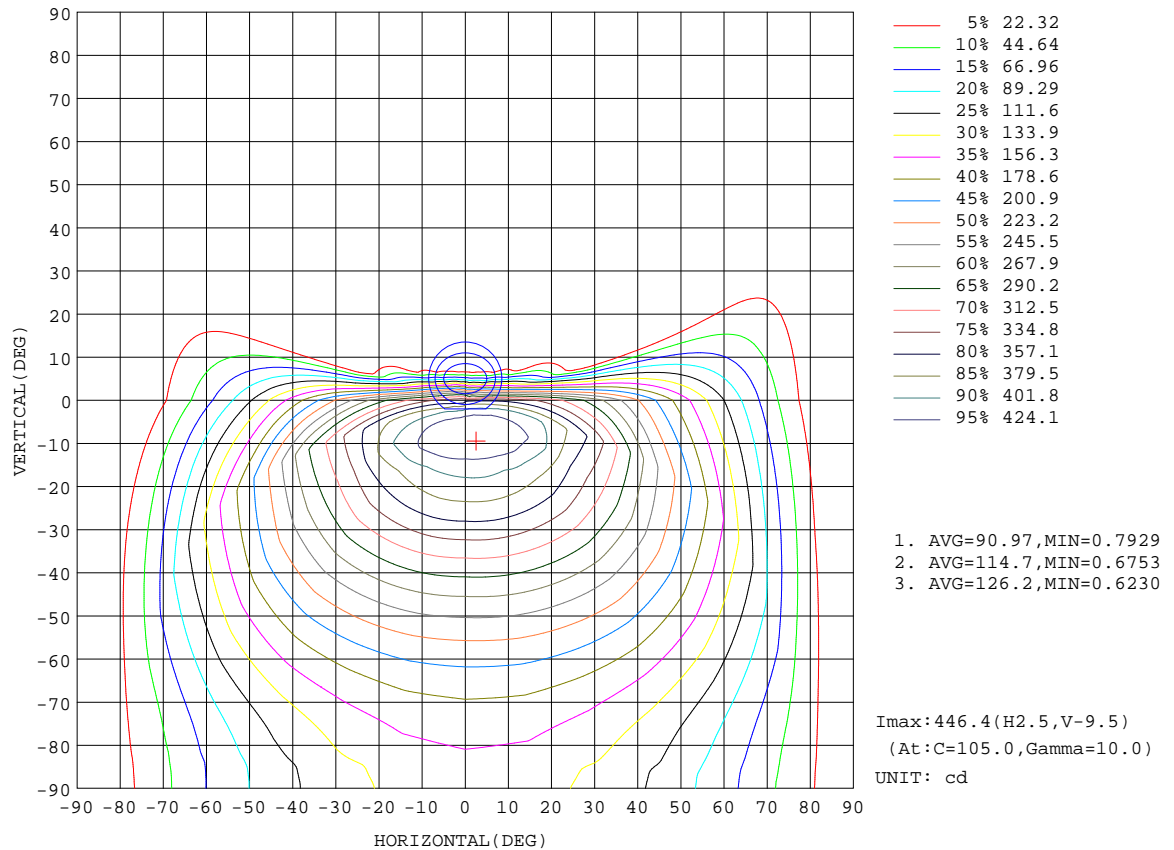
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	65	53	46	64	53	45	62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

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:

ISOCANDELA DIAGRAM

Test:U:48.00V I:0.2701A P:12.97W PF:1.000 Freq:0Hz Lamp Flux:691.05lx1 lm		
NAME: ML26-WW560-13W-930	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		



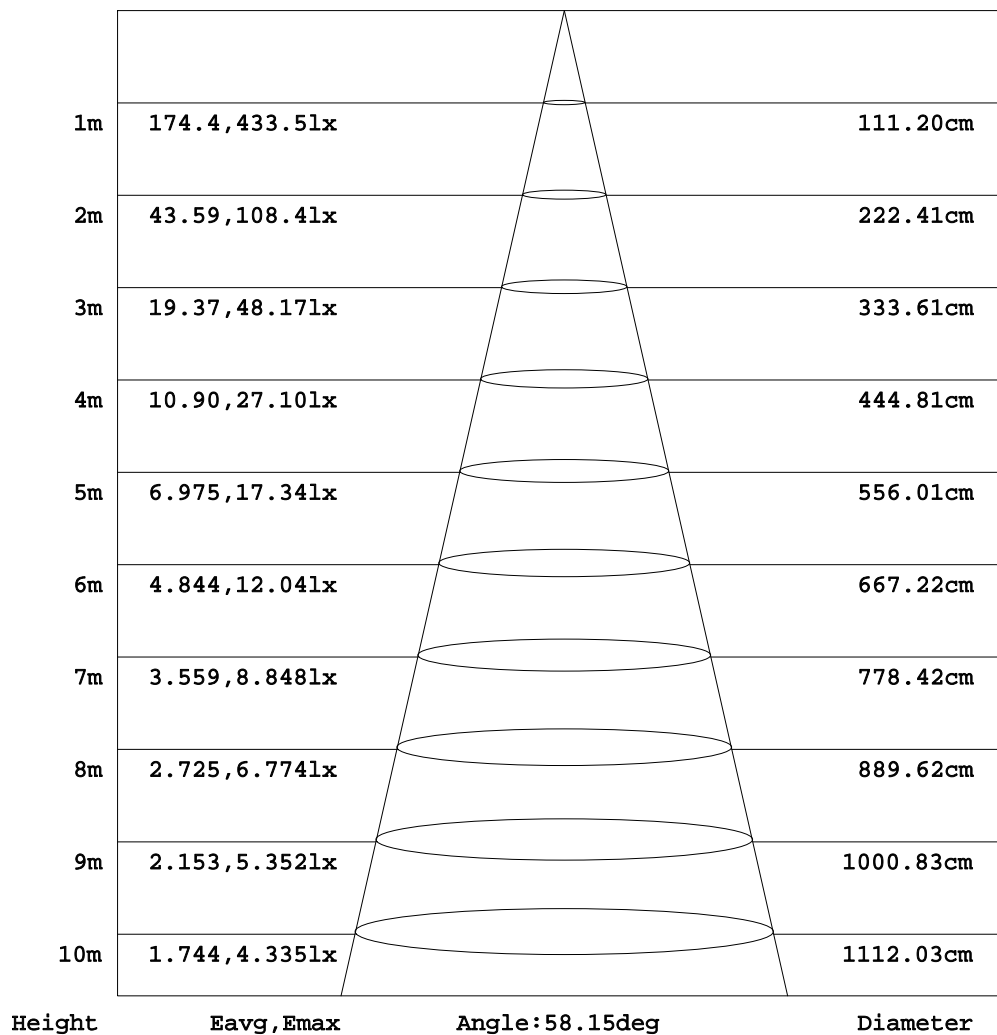
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-05-08

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:691.05lx1 lm		
NAME: ML26-WW560-13W-930	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

Flux out:175.4 lm



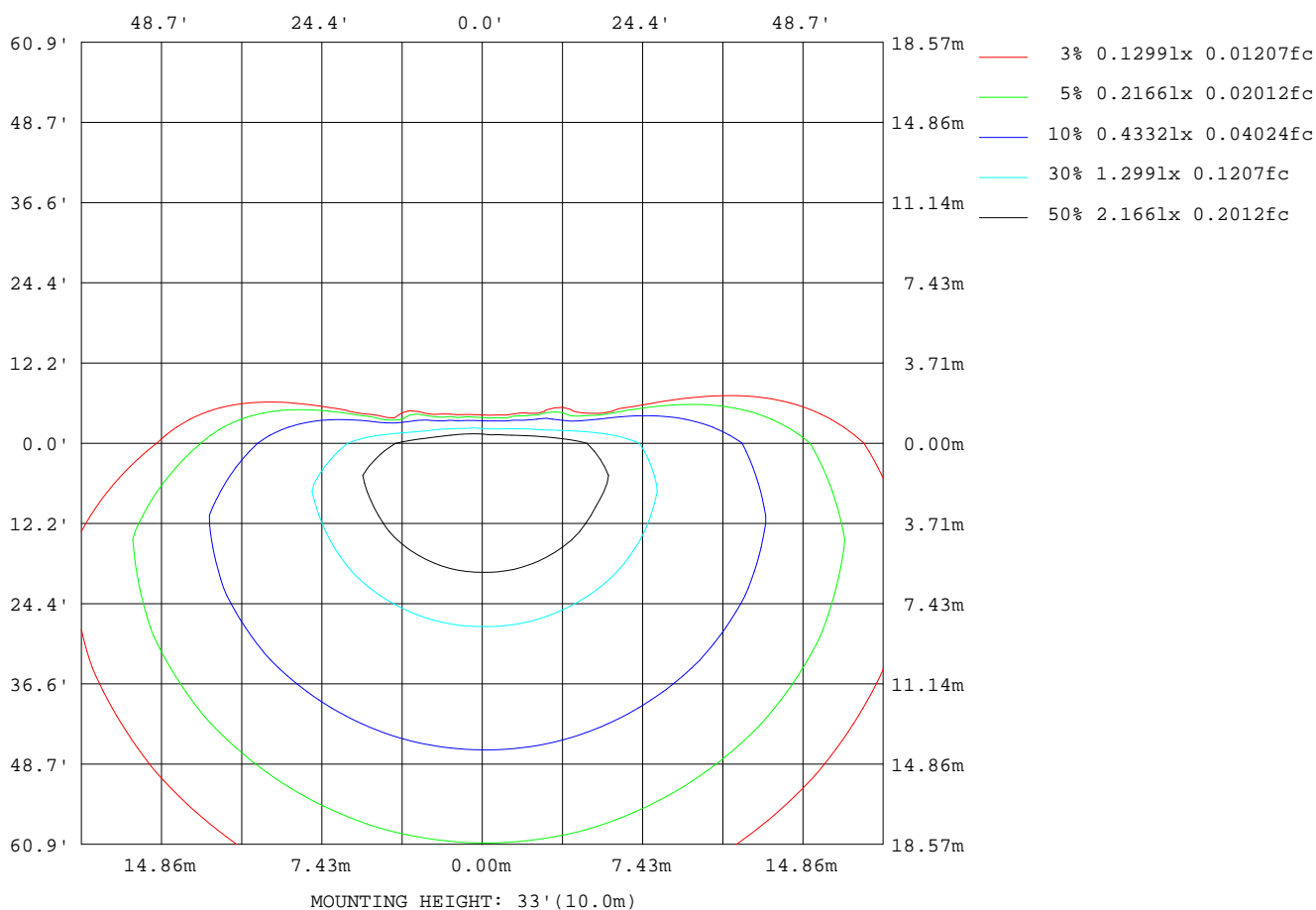
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:691.05lx1 lm		
NAME: ML26-WW560-13W-930	TYPE:Low Voltage Track System Module	
SPEC.:3000K	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:691.051x1 lm		
NAME: ML26-WW560-13W-930	TYPE:Low Voltage Track System Module	
SPEC.:3000K	DIM.: L570mm*W22mm*H81mm	
MFR.: NEKO LIGHTING AG		

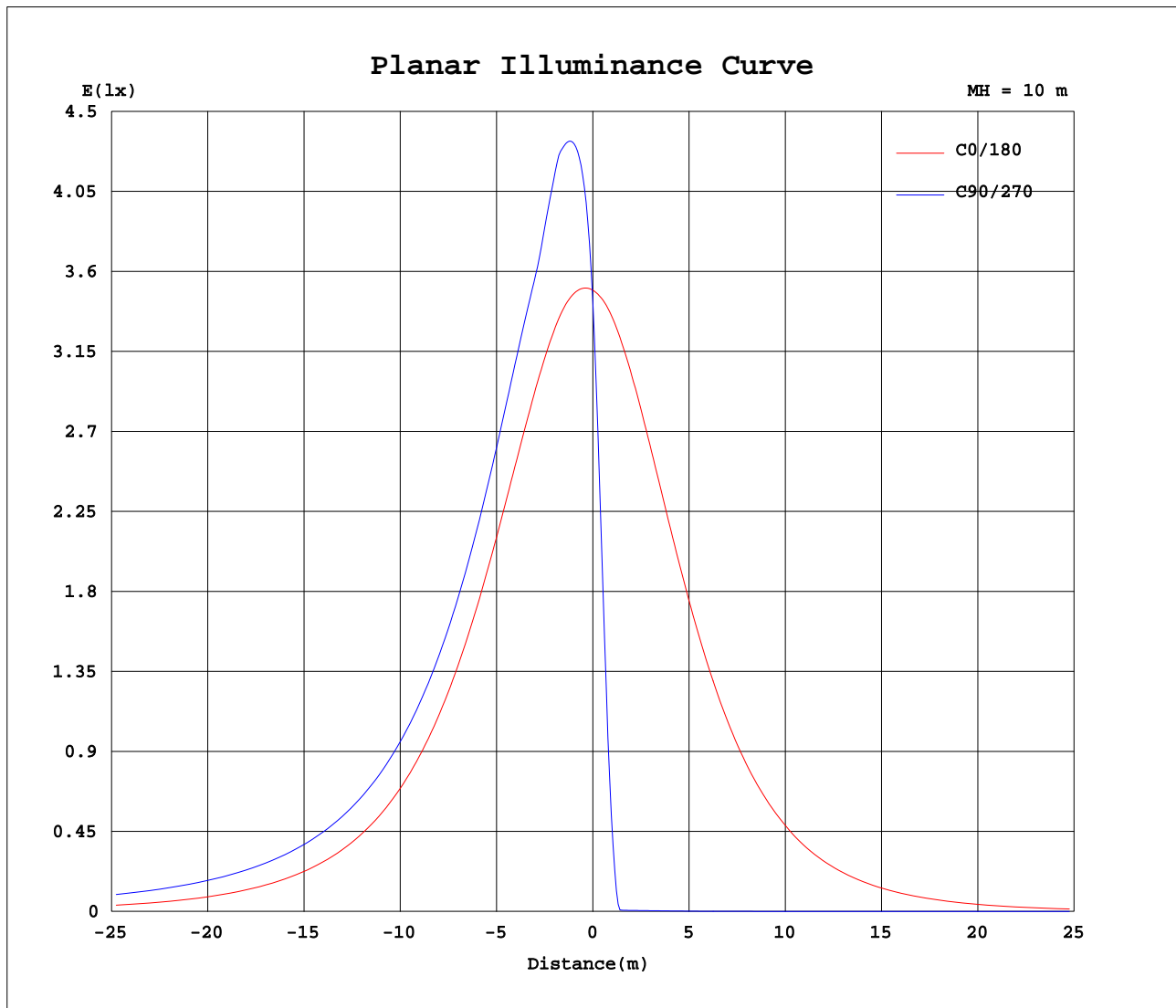
AvgL	cd/m2
L_0~180(65)av	22210
L_0~180(75)av	11517
L_0~180(85)av	2921
L_90~270(65)av	35287
L_90~270(75)av	50209
L_90~270(85)av	133378
L_45(65)av	32990
L_45(75)av	41380
L_45(85)av	99684

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:

```