

SLIM 40-A-7.5W-930-30°



Light Output Ratio:	100.0%	
Luminaire Power:	9.176 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2021-08-23

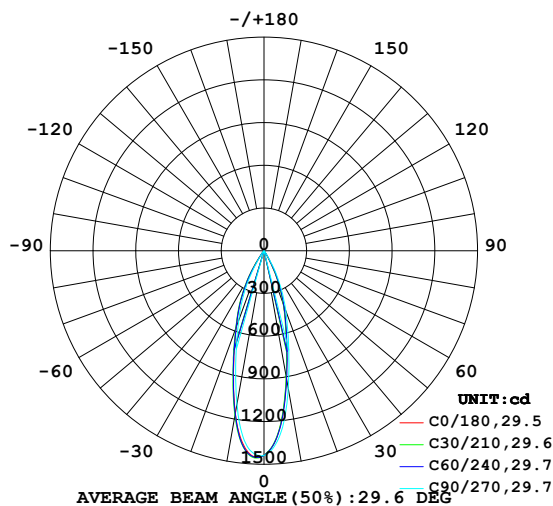
γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 8.967m [K=1.0000]  
Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

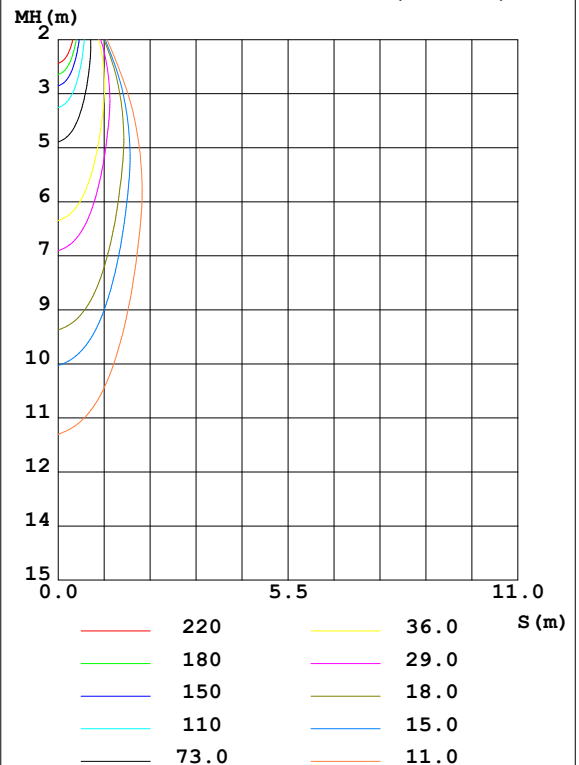
Test:U:221.1V I:0.0784A P:9.176W PF:0.5292 Freq:49.99Hz Lamp Flux:491.54lx1 lm		
NAME: SLIM 40-A-7.5W-930-30°	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi 44\text{mm} \times \text{H}89\text{mm}$	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 53.57 lm/W			
MODEL	3000K	I <sub>max</sub> (cd)	1457	S/MH (C0/180)	0.55
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.52
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	491.54	$\eta$ UP, DN (C0-180)	0.0, 47.1
NOMINAL FLUX (lm)	491.541	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 52.9
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	$\eta$ down (%)	100.0	CIBSE SHR MAX	0.55

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: 2021-08-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 58%  
 Test Distance: 8.967m [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	909.9	915.5	981.6	1106	1161	1161	1095	964.4	0- 10	117.6	117.6	23.9,23.9
20	399.6	403.7	449.3	526.2	569.6	573.6	520.8	439.1	10- 20	198.9	316.6	64.4,64.4
30	72.76	80.77	117.2	186.3	221.4	215.1	158.5	91.15	20- 30	137.8	454.3	92.4,92.4
40	8.012	8.286	10.33	14.87	17.28	16.52	13.19	9.256	30- 40	30.96	485.3	98.7,98.7
50	1.792	1.792	2.102	3.008	3.599	3.691	2.798	2.000	40- 50	4.559	489.8	99.7,99.7
60	0.2910	0.3316	0.4637	0.9500	1.327	1.415	0.8529	0.4528	50- 60	1.386	491.2	99.9,99.9
70	0.0310	0.0260	0.0315	0.0210	0.0207	0.0260	0.0210	0.0263	60- 70	0.2551	491.5	100,100
80	0.0259	0.0260	0.0262	0.0210	0.0259	0.0260	0.0210	0.0263	70- 80	0.0258	491.5	100,100
90	0.0259	0.0260	0.0262	0.0263	0.0259	0.0208	0.0210	0.0263	80- 90	0.0257	491.5	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): 488.34 lm

%lum = 99.3%

%lamp = 99.3%

Conical surface Flux(120deg): 491.23 lm

%lum = 99.9%

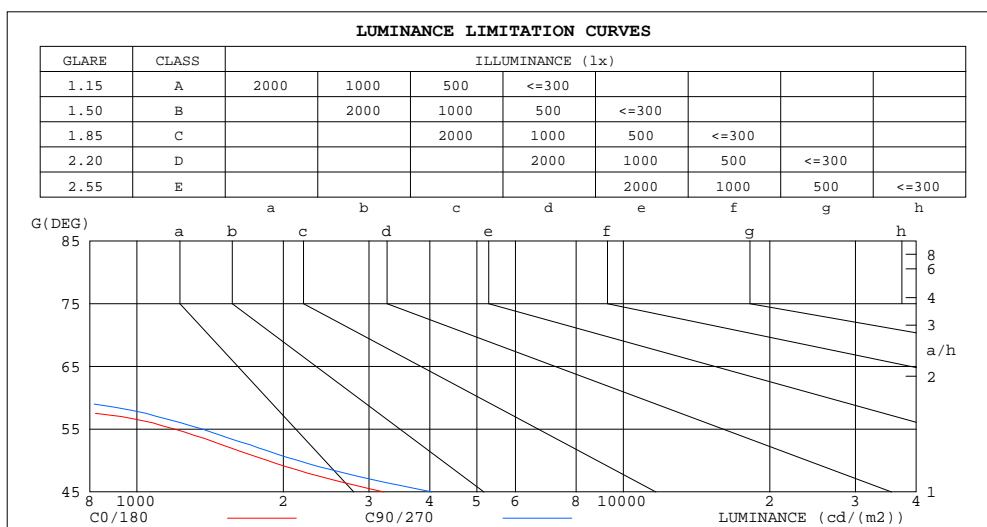
%lamp = 99.9%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-08-23

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:221.1V I:0.0784A P:9.176W PF:0.5292 Freq:49.99Hz Lamp Flux:491.54lx1 lm		
NAME: SLIM 40-A-7.5W-930-30°	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ44mm*H89mm	
MFR.: NEKO LIGHTING AG		



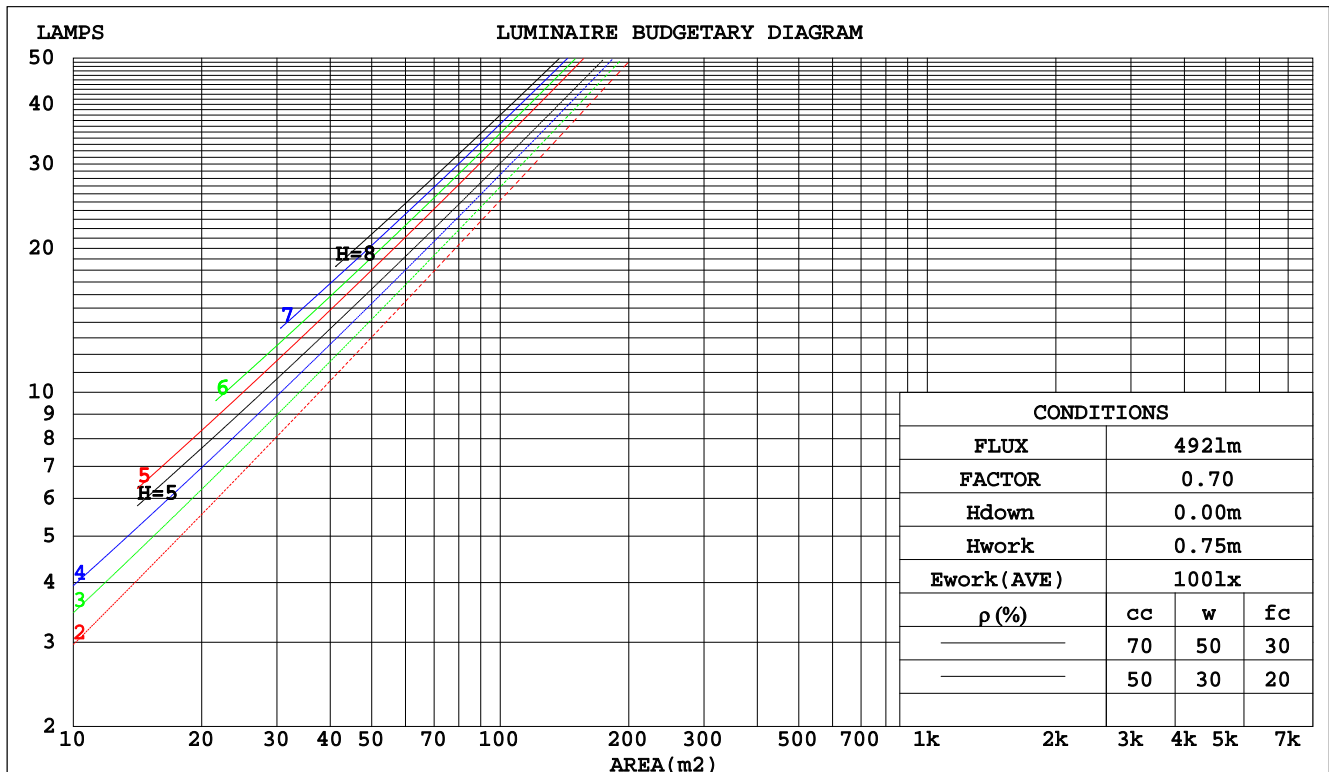
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Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-08-23

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:221.1V I:0.0784A P:9.176W PF:0.5292 Freq:49.99Hz Lamp Flux:491.541x1 lm		
NAME: SLIM 40-A-7.5W-930-30°	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ44mm*H89mm	
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	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.01	.99	.97	.99	.97	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.90	.87	.91	.88	.86	.89	.87	.85	.84
5.0	.92	.87	.84	.91	.87	.83	.89	.86	.83	.88	.85	.82	.86	.84	.81	.80
6.0	.88	.83	.80	.87	.83	.80	.86	.82	.79	.85	.81	.79	.83	.80	.78	.77
7.0	.84	.80	.76	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.77	.75	.74
8.0	.81	.76	.73	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.71
9.0	.78	.73	.70	.78	.73	.70	.77	.73	.70	.76	.72	.70	.75	.72	.69	.68
10.0	.75	.71	.68	.75	.70	.67	.74	.70	.67	.73	.70	.67	.73	.69	.67	.66



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C Interval: 15.0DEG  
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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:8.967m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:221.1V I:0.0784A P:9.176W PF:0.5292 Freq:49.99Hz Lamp Flux:491.541x1 lm		
NAME: SLIM 40-A-7.5W-930-30°	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ44mm*H89mm	
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	.149	.085	.027	.142	.081	.026	.130	.075	.024	.118	.068	.022	.108	.063	.020	
2.0	.140	.077	.023	.134	.074	.023	.124	.069	.021	.114	.064	.020	.106	.060	.019	
3.0	.131	.070	.021	.127	.068	.020	.118	.064	.019	.110	.060	.019	.103	.057	.018	
4.0	.124	.065	.019	.120	.063	.019	.113	.060	.018	.106	.057	.017	.100	.054	.017	
5.0	.118	.060	.017	.115	.059	.017	.108	.056	.017	.102	.054	.016	.097	.052	.016	
6.0	.112	.056	.016	.109	.055	.016	.104	.053	.015	.099	.051	.015	.094	.049	.015	
7.0	.107	.053	.015	.105	.052	.015	.100	.050	.015	.095	.049	.014	.091	.047	.014	
8.0	.102	.050	.014	.100	.049	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013	
9.0	.098	.048	.013	.096	.047	.013	.093	.046	.013	.089	.045	.013	.086	.043	.013	
10.0	.094	.045	.013	.093	.045	.012	.089	.044	.012	.086	.043	.012	.083	.042	.012	

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	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016		
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.046	.041	.017	.015	.013		
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011		
4.0	.126	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009		
5.0	.116	.086	.064	.100	.075	.056	.069	.052	.039	.040	.031	.023	.013	.010	.008		
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.007		
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.024	.017	.011	.008	.006		
8.0	.095	.062	.039	.081	.054	.034	.056	.038	.024	.033	.022	.014	.011	.007	.005		
9.0	.089	.056	.034	.077	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004		
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.019	.030	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-08-23

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:221.1V I:0.0784A P:9.176W PF:0.5292 Freq:49.99Hz Lamp Flux:491.541x1 lm										
NAME: SLIM 40-A-7.5W-930-30°					TYPE:Tracklight			SERIAL No.:		
SPEC.:3000K					DIM.: φ44mm*H89mm					
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	9.6	10.3	9.8	10.5	10.6	11.3	12.1	11.6	12.2	12.4
3H	9.4	10.1	9.7	10.3	10.5	11.2	11.9	11.4	12.1	12.3
4H	9.4	10.0	9.6	10.2	10.4	11.1	11.8	11.4	12.0	12.2
6H	9.3	9.9	9.6	10.1	10.4	11.0	11.6	11.3	11.9	12.1
8H	9.2	9.8	9.5	10.1	10.3	11.0	11.6	11.3	11.8	12.1
12H	9.2	9.7	9.5	10.0	10.3	10.9	11.5	11.2	11.8	12.0
4H 2H	9.4	10.0	9.6	10.2	10.4	11.1	11.8	11.4	12.0	12.2
3H	9.2	9.8	9.5	10.0	10.3	10.9	11.5	11.2	11.8	12.0
4H	9.1	9.6	9.4	9.9	10.2	10.8	11.4	11.2	11.7	12.0
6H	9.0	9.5	9.4	9.8	10.1	10.7	11.2	11.1	11.5	11.9
8H	8.9	9.4	9.3	9.7	10.1	10.7	11.1	11.1	11.5	11.8
12H	8.9	9.3	9.3	9.7	10.0	10.6	11.0	11.0	11.4	11.8
8H 4H	8.9	9.4	9.3	9.7	10.1	10.7	11.1	11.1	11.5	11.8
6H	8.8	9.2	9.3	9.6	10.0	10.6	10.9	11.0	11.3	11.7
8H	8.8	9.1	9.2	9.5	9.9	10.5	10.8	11.0	11.2	11.7
12H	8.7	9.0	9.2	9.4	9.9	10.5	10.7	10.9	11.2	11.6
12H 4H	8.9	9.3	9.3	9.6	10.0	10.6	11.0	11.0	11.4	11.8
6H	8.8	9.1	9.2	9.5	9.9	10.5	10.8	11.0	11.2	11.7
8H	8.7	9.0	9.2	9.4	9.9	10.5	10.7	10.9	11.2	11.6
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / - 9.6					+ 4.1 / - 9.9				
1.5H	+ 5.5 / - 6.1					+ 6.2 / - 6.9				
2.0H	+ 5.3 / -13.8					+ 6.0 / -16.2				

CIE Pub.117, 491.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.5)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-08-23

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:221.1V I:0.0784A P:9.176W PF:0.5292 Freq:49.99Hz Lamp Flux:491.541x1 lm		
NAME: SLIM 40-A-7.5W-930-30°	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ44mm*H89mm	
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) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	82	90	85	81	78
0.80	98	93	89	97	92	89	96	92	89	85
1.00	102	97	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	108	103	100	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

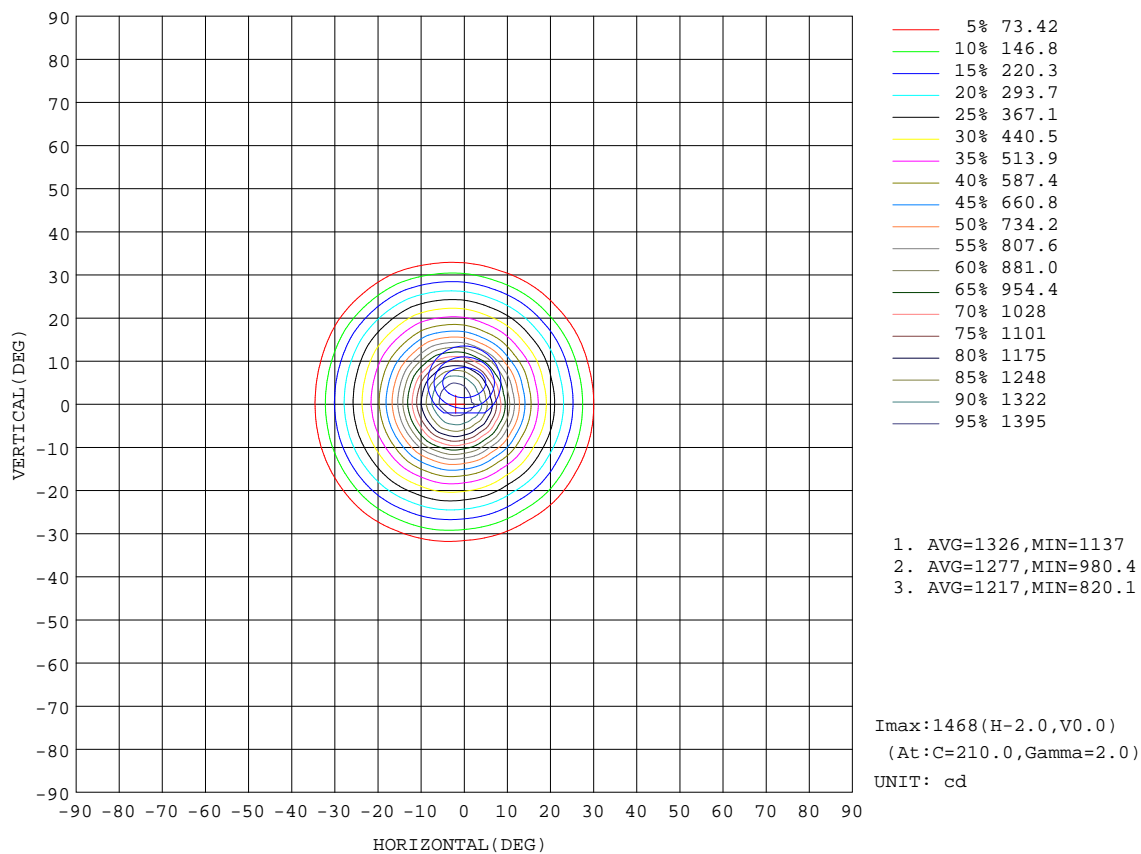
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 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2021-08-23

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:58%  
 Test Distance:8.967m [K=1.0000]  
 Remarks:



ISOCANDELA DIAGRAM

Test:U:221.1V I:0.0784A P:9.176W PF:0.5292 Freq:49.99Hz Lamp Flux:491.54lx1 lm		
NAME: SLIM 40-A-7.5W-930-30°	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ44mm*H89mm	
MFR.: NEKO LIGHTING AG		



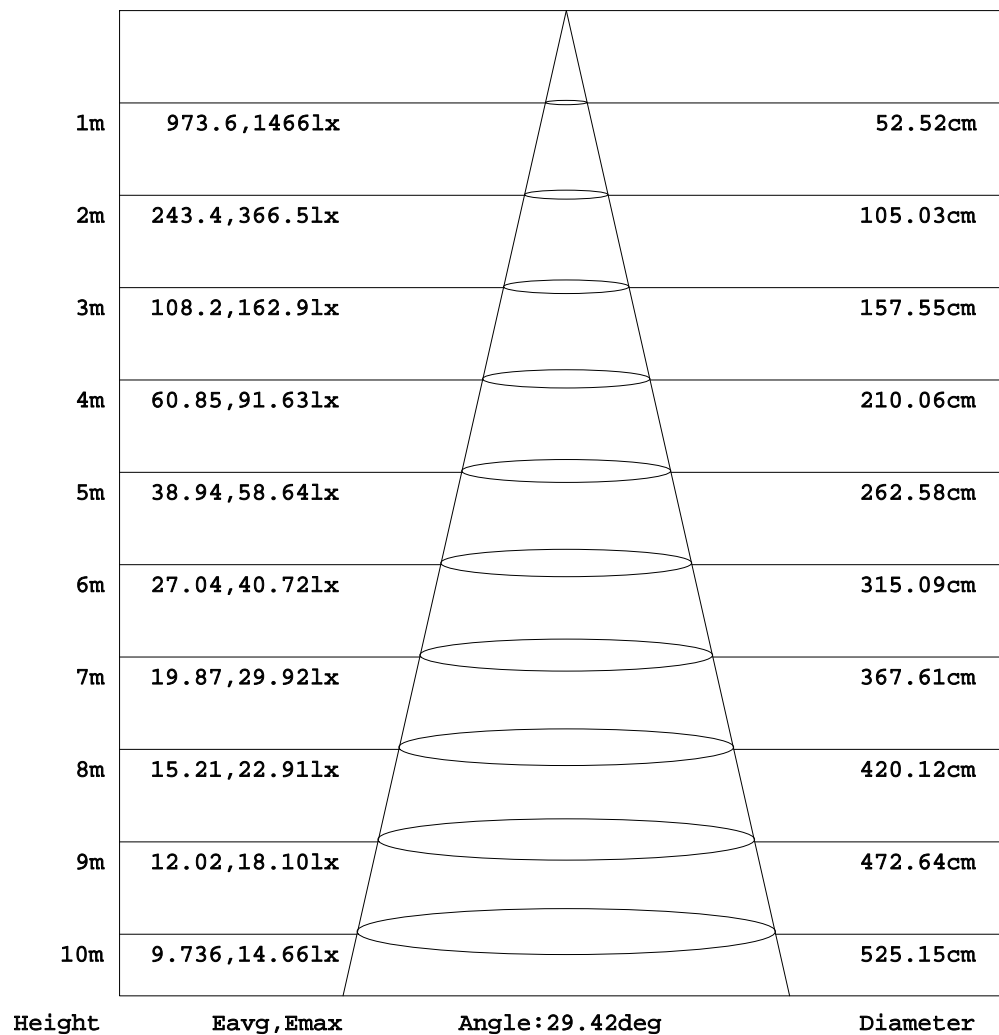
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Test Speed: HIGH  
Temperature:25.3DEG  
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γ Range: 0 - 90DEG  
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Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

**AAI Figure**

Test:U:221.1V I:0.0784A P:9.176W PF:0.5292 Freq:49.99Hz Lamp Flux:491.54lx1 lm		
NAME: SLIM 40-A-7.5W-930-30°	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ44mm*H89mm	
MFR.: NEKO LIGHTING AG		

Flux out:219.6 lm



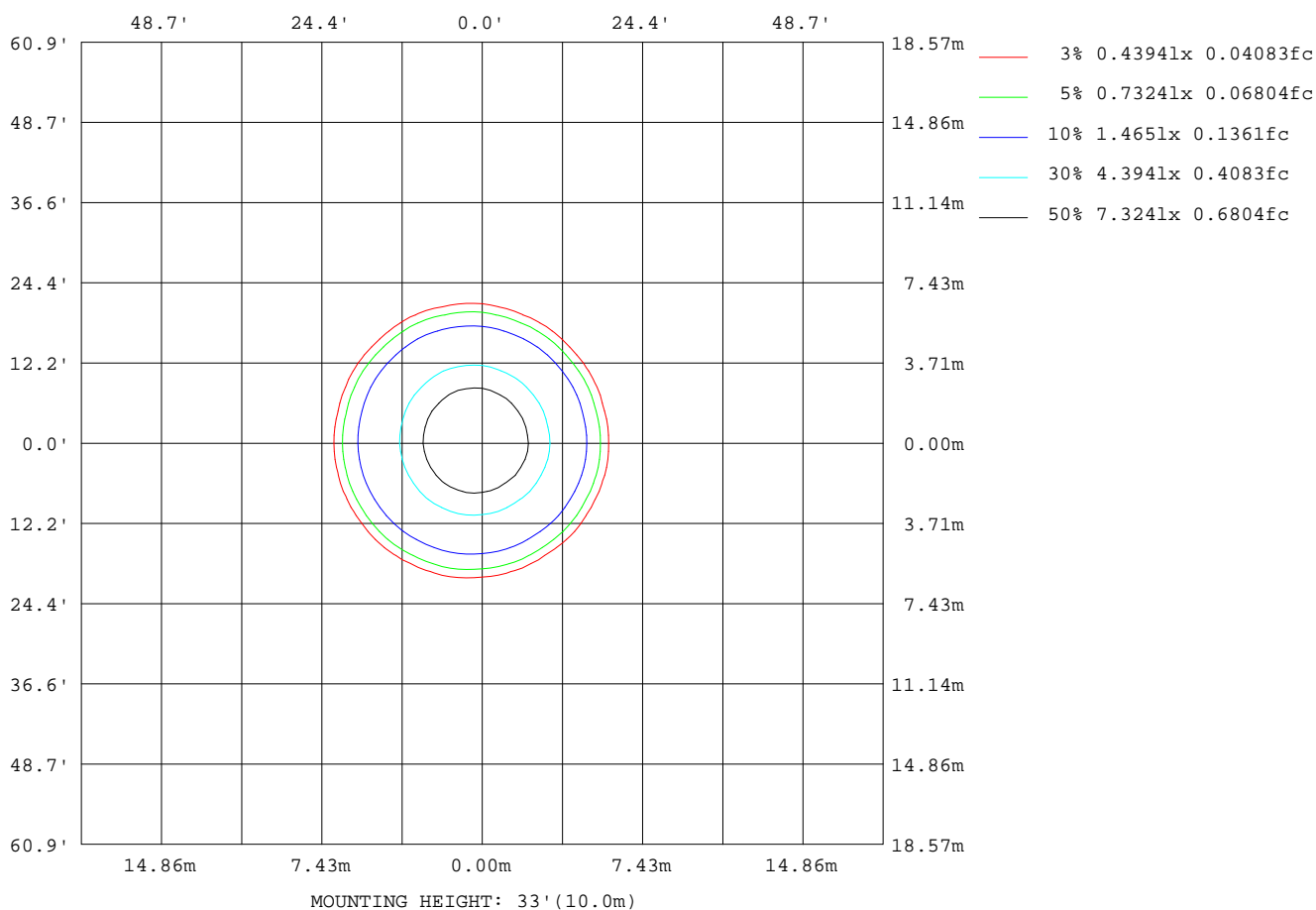
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2021-08-23

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 8.967m [K=1.0000]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:221.1V I:0.0784A P:9.176W PF:0.5292 Freq:49.99Hz Lamp Flux:491.54lx 1m		
NAME: SLIM 40-A-7.5W-930-30°	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: $\phi$ 44mm*H89mm	
MFR.: NEKO LIGHTING AG		



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-08-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:221.1V I:0.0784A P:9.176W PF:0.5292 Freq:49.99Hz Lamp Flux:491.541x1 lm		
NAME: SLIM 40-A-7.5W-930-30°	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ44mm*H89mm	
MFR.: NEKO LIGHTING AG		

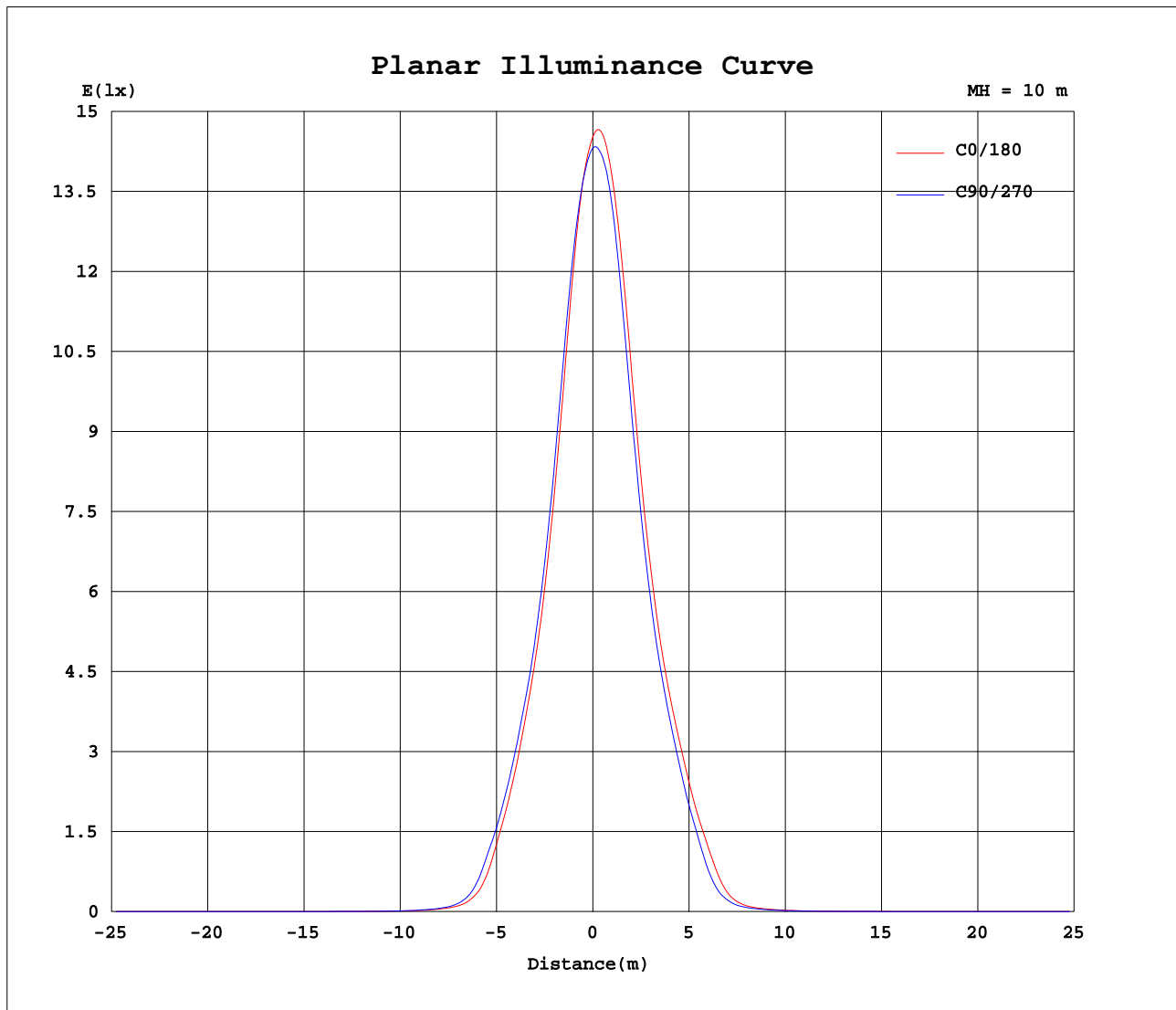
AvgL	cd/m2
L_0~180 (65) av	462
L_0~180 (75) av	66
L_0~180 (85) av	195
L_90~270 (65) av	54
L_90~270 (75) av	67
L_90~270 (85) av	178
L_45 (65) av	390
L_45 (75) av	63
L_45 (85) av	187

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-08-23

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [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: 2021-08-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 8.967m [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:8.967m [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:8.967m [K=1.0000]
Remarks:

```