

InLine ST-11W-927-36°



Light Output Ratio:	100.0%	
Luminaire Power:	11.52 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: 2021-10-30

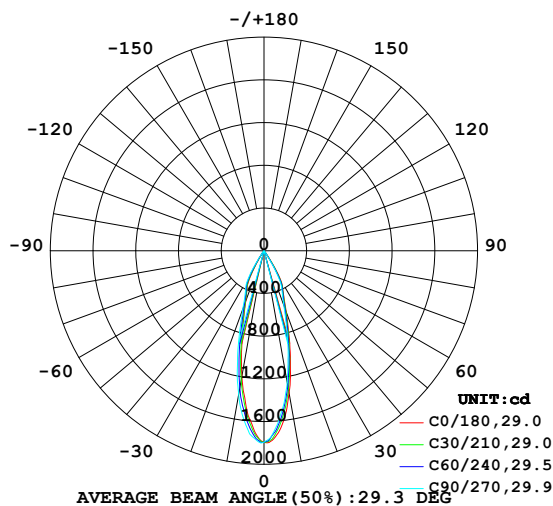
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

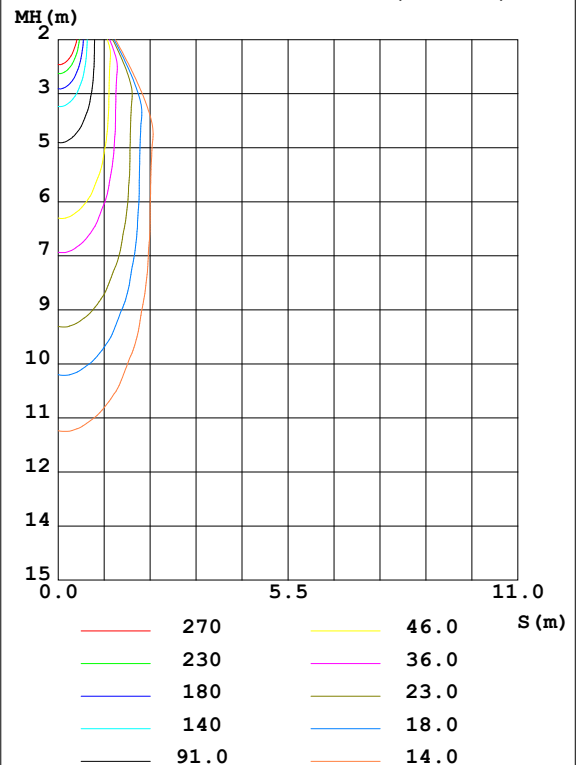
Test:U:221.0V I:0.0548A P:11.52W PF:0.9511 Freq:50.09Hz Lamp Flux:626.352x1 lm		
NAME: InLine ST-11W-927-36°	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: \varnothing 50mm*H116mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 54.37 lm/W			
MODEL	2700K	I _{max} (cd)	1803	S/MH (C0/180)	0.45
NOMINAL POWER (W)	11	LOR (%)	100.0	S/MH (C90/270)	0.52
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	626.35	η UP, DN (C0-180)	0.0, 49.2
NOMINAL FLUX (lm)	626.352	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	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	1350	1311	1254	1213	1199	1257	1365	1384	0- 10	144.9	144.9	23.1,23.1
20	607.4	590.7	544.5	517.2	503.5	518.0	583.8	611.5	10- 20	242.1	387.0	61.8,61.8
30	304.0	274.2	219.5	190.2	172.6	213.7	284.5	312.8	20- 30	182.4	569.4	90.9,90.9
40	16.05	13.89	12.02	10.64	9.510	10.76	13.51	15.56	30- 40	48.40	617.8	98.6,98.6
50	4.588	4.355	3.866	3.589	3.379	3.813	4.347	4.493	40- 50	5.497	623.3	99.5,99.5
60	1.498	1.360	1.255	1.137	1.089	1.238	1.388	1.476	50- 60	2.158	625.5	99.9,99.9
70	0.3193	0.2335	0.2363	0.1841	0.1848	0.2551	0.2720	0.3322	60- 70	0.6816	626.2	100,100
80	0.1031	0.0676	0.0945	0.0524	0.0614	0.0936	0.0679	0.1002	70- 80	0.1488	626.3	100,100
90	0.0257	0.0208	0.0262	0.0211	0.0257	0.0260	0.0210	0.0211	80- 90	0.0447	626.4	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): 621.18 lm

%lum = 99.2%

%lamp = 99.2%

Conical surface Flux(120deg): 625.48 lm

%lum = 99.9%

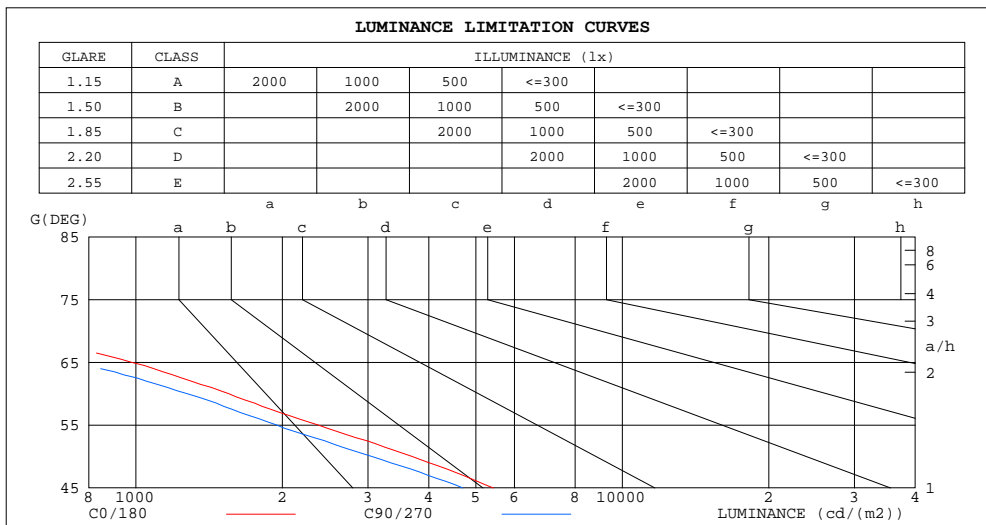
%lamp = 99.9%

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C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-10-30

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:221.0V I:0.0548A P:11.52W PF:0.9511 Freq:50.09Hz Lamp Flux:626.352x1 lm		
NAME: InLine ST-11W-927-36°	TYPE:Tracklight	SERIAL No.:
SPEC.:2700K	DIM.: φ50mm*H116mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	367	246
80	307	276
75	330	298
70	483	351
65	979	739
60	1552	1275
55	2371	1948
50	3696	3054
45	5429	4698

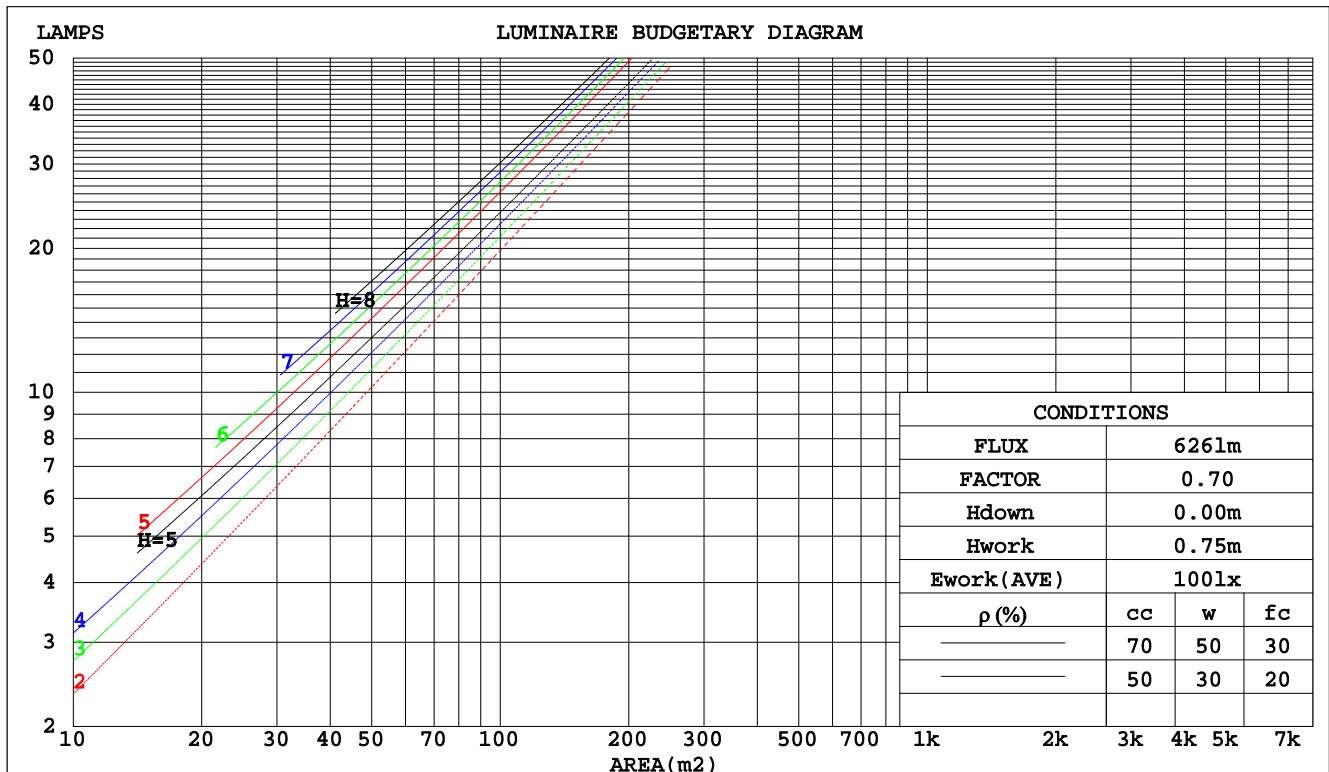
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:2700K	DIM.: φ50mm*H116mm	
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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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.93	.99	.96	.93	.97	.94	.91	.94	.92	.90	.92	.90	.88	.87
4.0	.96	.91	.88	.95	.90	.87	.93	.89	.86	.91	.88	.85	.89	.86	.84	.83
5.0	.91	.87	.83	.90	.86	.83	.89	.85	.82	.87	.84	.81	.86	.83	.81	.79
6.0	.87	.82	.79	.87	.82	.79	.85	.81	.78	.84	.80	.78	.83	.80	.77	.76
7.0	.84	.79	.75	.83	.78	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.73
8.0	.80	.75	.72	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.68	.67
10.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.69	.66	.72	.68	.66	.65



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WEC AND CCEC

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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	.151	.086	.027	.145	.082	.026	.132	.076	.024	.121	.070	.022	.110	.064	.021		
2.0	.142	.078	.024	.137	.075	.023	.126	.070	.022	.117	.065	.020	.108	.061	.019		
3.0	.134	.071	.021	.129	.069	.021	.121	.065	.020	.112	.062	.019	.105	.058	.018		
4.0	.127	.066	.019	.123	.064	.019	.115	.061	.018	.108	.058	.018	.102	.055	.017		
5.0	.120	.061	.018	.117	.060	.017	.110	.057	.017	.104	.055	.016	.099	.053	.016		
6.0	.114	.057	.016	.111	.056	.016	.106	.054	.016	.101	.052	.015	.096	.050	.015		
7.0	.109	.054	.015	.107	.053	.015	.102	.051	.015	.097	.050	.015	.093	.048	.014		
8.0	.105	.051	.014	.102	.050	.014	.098	.049	.014	.094	.048	.014	.090	.046	.013		
9.0	.100	.048	.014	.098	.048	.013	.094	.047	.013	.091	.046	.013	.087	.044	.013		
10.0	.096	.046	.013	.095	.046	.013	.091	.045	.013	.088	.044	.012	.085	.043	.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	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.152	.133	.116	.130	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013		
3.0	.138	.113	.094	.119	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011		
4.0	.127	.098	.077	.109	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009		
5.0	.117	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008		
6.0	.109	.076	.053	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006		
7.0	.102	.069	.045	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006		
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005		
9.0	.090	.057	.034	.078	.049	.030	.054	.035	.021	.031	.020	.013	.010	.007	.004		
10.0	.086	.052	.030	.074	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-10-30

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:221.0V I:0.0548A P:11.52W PF:0.9511 Freq:50.09Hz Lamp Flux:626.352x1 lm										
NAME: InLine ST-11W-927-36°					TYPE:Tracklight			SERIAL No.:		
SPEC.:2700K					DIM.: φ50mm*H116mm					
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	17.2	17.9	17.4	18.1	18.2	14.1	14.9	14.3	15.0	15.2
3H	17.0	17.7	17.2	17.9	18.1	14.0	14.7	14.2	14.9	15.0
4H	16.9	17.6	17.2	17.8	18.0	13.9	14.5	14.1	14.8	15.0
6H	16.8	17.5	17.1	17.7	17.9	13.8	14.4	14.1	14.7	14.9
8H	16.8	17.4	17.1	17.6	17.9	13.7	14.4	14.0	14.6	14.9
12H	16.7	17.3	17.1	17.6	17.9	13.7	14.3	14.0	14.5	14.8
4H 2H	16.9	17.6	17.2	17.8	18.0	13.9	14.6	14.2	14.8	15.0
3H	16.8	17.3	17.1	17.6	17.9	13.7	14.3	14.0	14.6	14.8
4H	16.7	17.2	17.0	17.5	17.8	13.6	14.2	14.0	14.4	14.8
6H	16.6	17.0	16.9	17.4	17.7	13.5	14.0	13.9	14.3	14.7
8H	16.5	16.9	16.9	17.3	17.7	13.5	13.9	13.9	14.3	14.6
12H	16.5	16.9	16.9	17.2	17.6	13.4	13.8	13.8	14.2	14.6
8H 4H	16.5	16.9	16.9	17.3	17.7	13.5	13.9	13.9	14.3	14.6
6H	16.4	16.8	16.8	17.1	17.6	13.4	13.7	13.8	14.1	14.5
8H	16.3	16.7	16.8	17.1	17.5	13.3	13.6	13.8	14.0	14.5
12H	16.3	16.6	16.7	17.0	17.5	13.3	13.5	13.7	14.0	14.4
12H 4H	16.5	16.9	16.9	17.2	17.6	13.4	13.8	13.8	14.2	14.6
6H	16.3	16.7	16.8	17.1	17.5	13.3	13.6	13.8	14.0	14.5
8H	16.3	16.6	16.7	17.0	17.5	13.3	13.5	13.7	14.0	14.4
Variations with the observer position at spacings:										
S = 1.0H	+ 4.5 / - 7.8					+ 3.2 / - 6.3				
1.5H	+ 6.6 / - 6.0					+ 4.8 / - 4.3				
2.0H	+ 4.0 / - 4.6					+ 4.0 / - 4.6				

CIE Pub.117, 626.4 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -1.6$)

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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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Remarks:

UTILIZATION FACTORS TABLE

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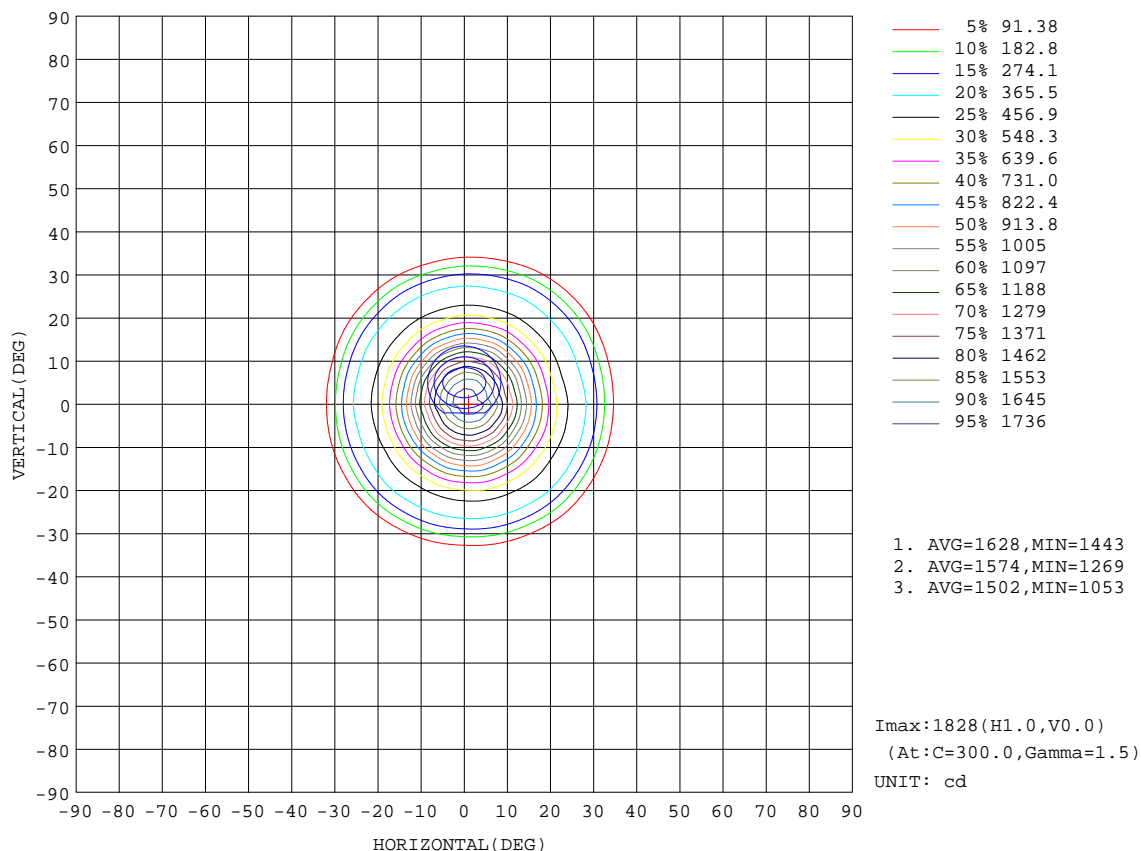
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	90	85	81	90	84	81	78
0.80	98	92	89	97	92	89	96	92	89	85
1.00	102	96	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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ISOCANDELA DIAGRAM

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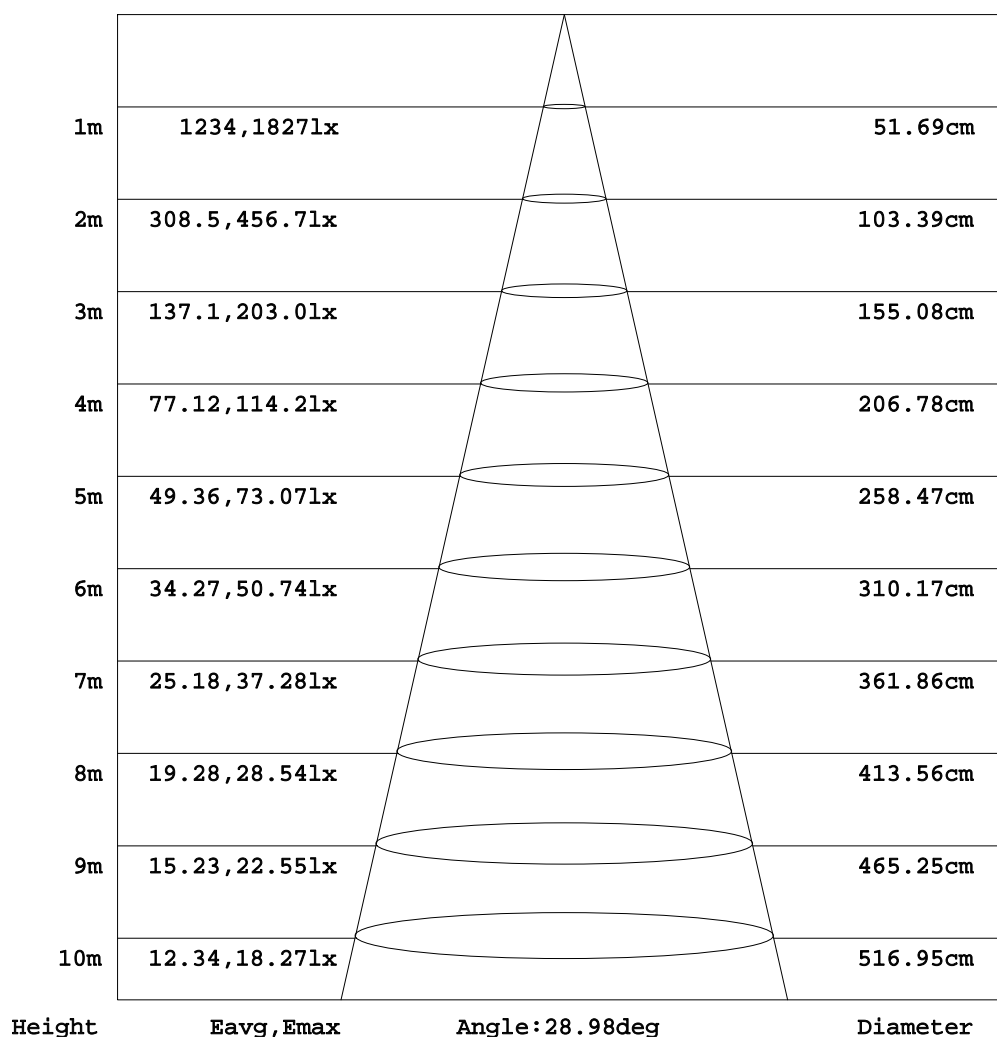
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AAI Figure

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Flux out:259.3 lm



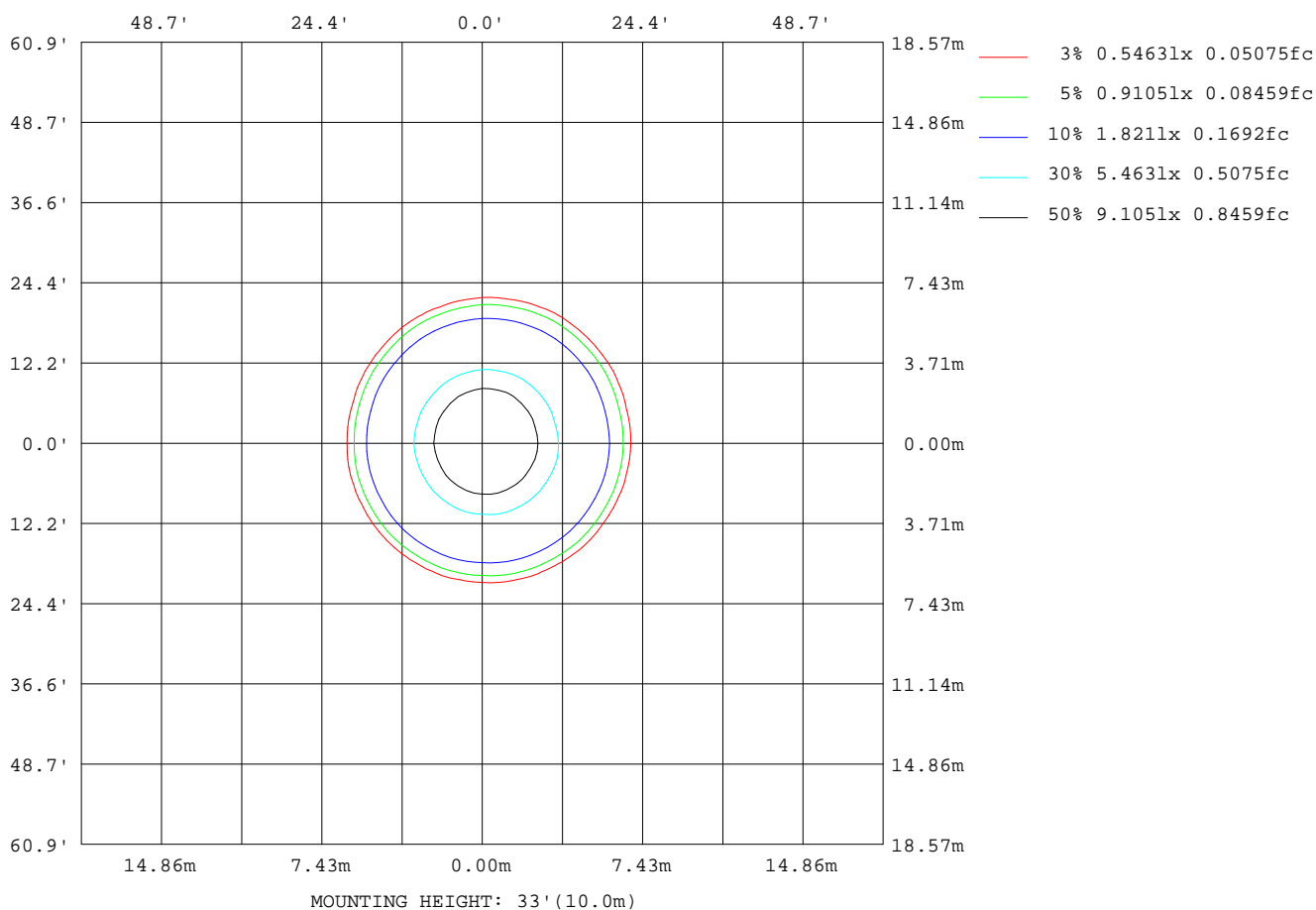
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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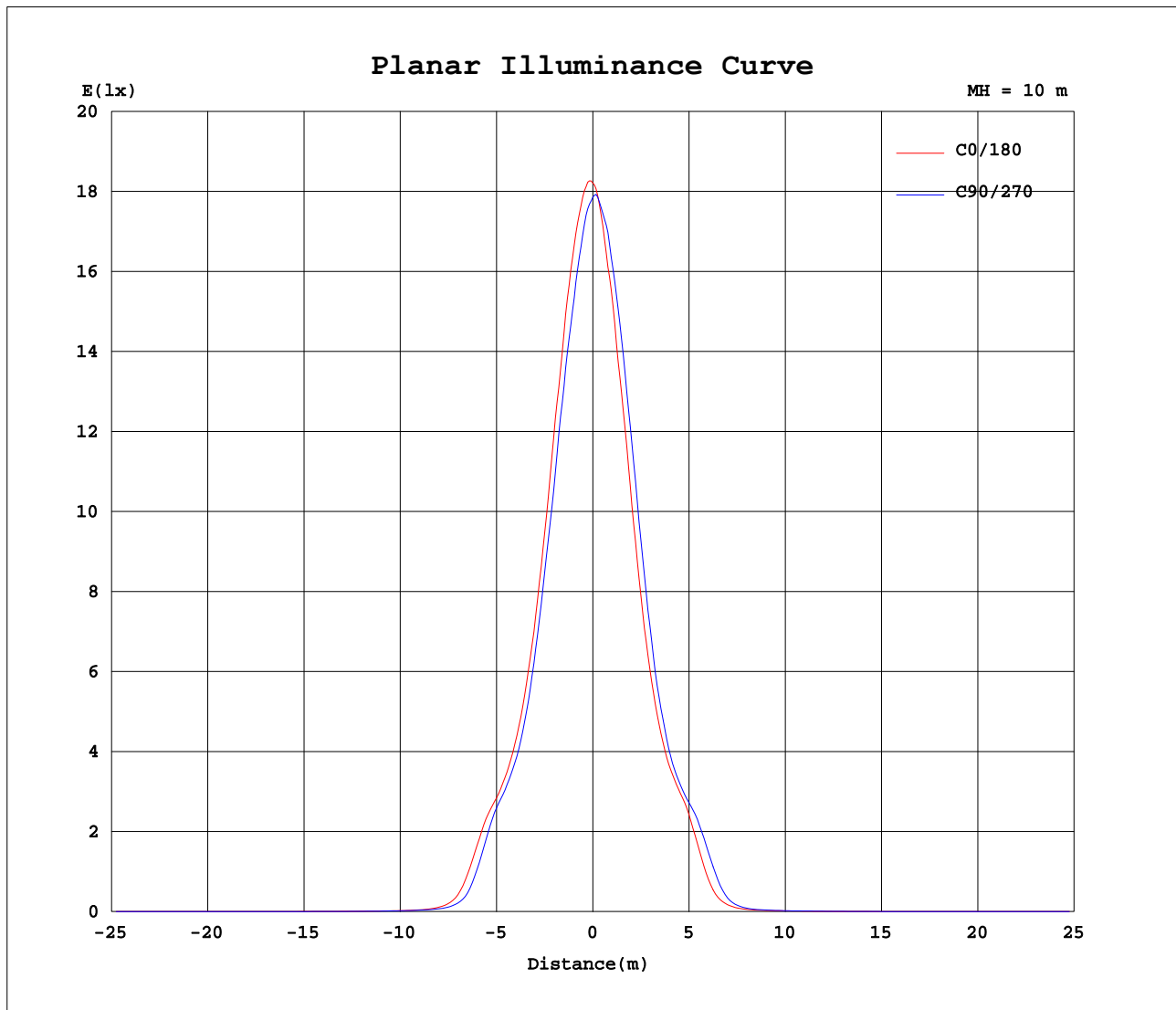
AvgL	cd/m2
L_0~180 (65) av	797
L_0~180 (75) av	263
L_0~180 (85) av	256
L_90~270 (65) av	791
L_90~270 (75) av	258
L_90~270 (85) av	185
L_45 (65) av	800
L_45 (75) av	260
L_45 (85) av	222

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-10-30

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: 2021-10-30

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:

```

```

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:

```