

S68R1-13W-DW-930-W



Light Output Ratio:	100.0%	
Luminaire Power:	13.63 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2020-12-21

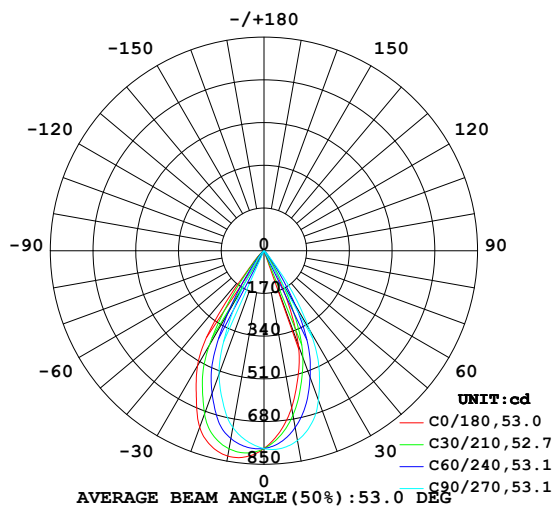
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

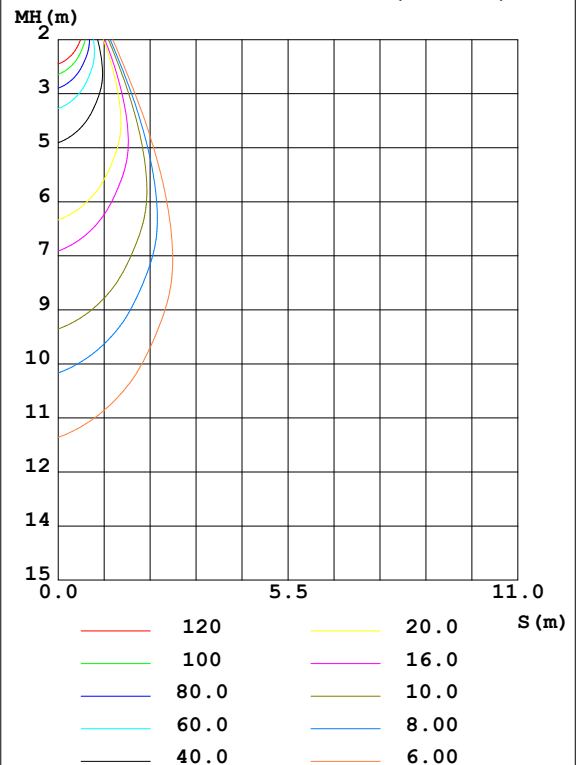
Test:U:220.8V I:0.0634A P:13.63W PF:0.9737 Freq:49.99Hz Lamp Flux:575.664x1 lm		
NAME: S68R1-13W-DW-930-W	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: ϕ 78mm*H98mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 42.24 lm/W			
MODEL	BRIDGELUX-3000K	I _{max} (cd)	836.7	S/MH (C0/180)	0.98
NOMINAL POWER (W)	13	LOR (%)	100.0	S/MH (C90/270)	0.72
RATED VOLTAGE (V)	40	TOTAL FLUX (lm)	575.66	η UP, DN (C0-180)	0.0, 53.7
NOMINAL FLUX (lm)	575.664	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	39.4	η down (%)	100.0	CIBSE SHR MAX	0.85

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	634.7	689.3	766.6	828.9	829.6	778.8	714.5	645.1	0- 10	72.70	72.70	12.6,12.6
20	400.3	492.5	633.1	759.7	748.0	643.8	524.0	411.5	10- 20	186.2	258.9	45,45
30	78.14	189.1	363.6	535.8	529.5	358.0	174.2	86.02	20- 30	198.4	457.3	79.4,79.4
40	14.21	25.15	44.48	144.2	97.68	58.47	25.40	17.41	30- 40	96.13	553.5	96.1,96.1
50	1.930	6.976	6.901	22.05	16.32	13.07	1.994	4.350	40- 50	18.90	572.4	99.4,99.4
60	0.5394	0.8789	0.7505	1.795	0.7620	0.9990	0.4076	0.4848	50- 60	2.944	575.3	99.9,99.9
70	0.0255	0.1525	0.1189	0.1246	0.0908	0.1328	0.0052	0.0318	60- 70	0.3277	575.6	100,100
80	0.0151	0.0051	0.0155	0.0052	0.0050	0.0102	0.0052	0.0156	70- 80	0.0211	575.7	100,100
90	0.0101	0.0051	0.0052	0.0052	0.0050	0.0051	0	0.0104	80- 90	0.0095	575.7	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): 566.46 lm

%lum = 98.4%

%lamp = 98.4%

Conical surface Flux(120deg): 575.31 lm

%lum = 99.9%

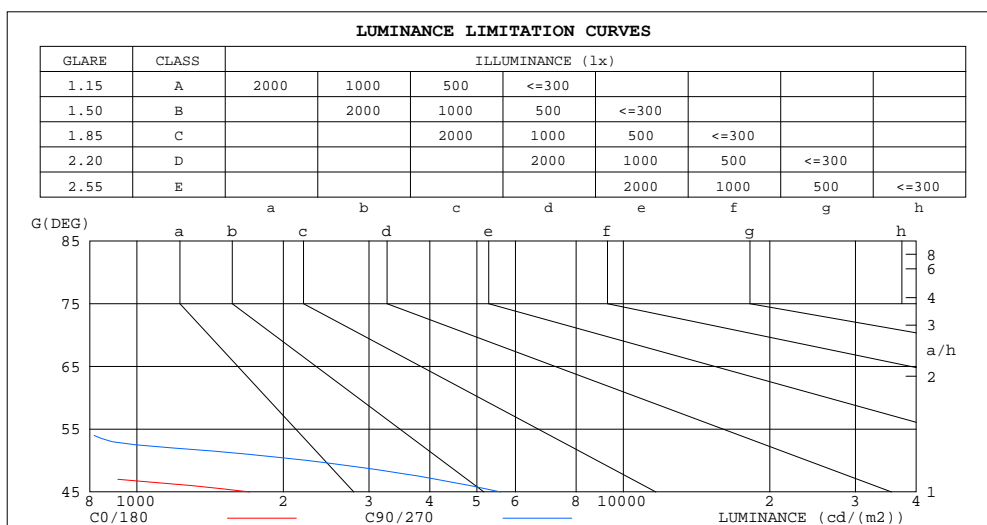
%lamp = 99.9%

C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-21

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:220.8V I:0.0634A P:13.63W PF:0.9737 Freq:49.99Hz Lamp Flux:575.664x1 lm		
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SPEC.:3000K	DIM.: ϕ 78mm*H98mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	25	25
80	19	19
75	12	17
70	16	72
65	188	199
60	230	313
55	346	753
50	641	2238
45	1704	5588

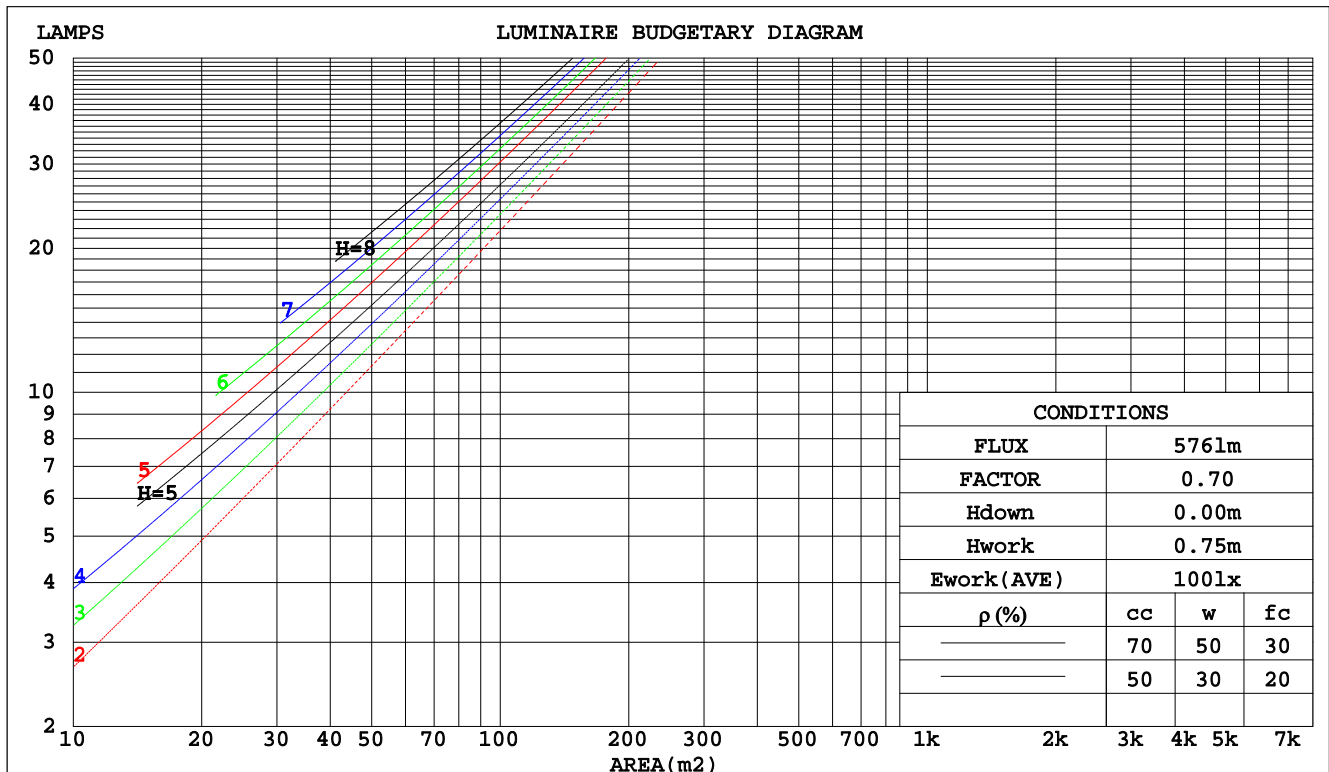
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.: ϕ 78mm*H98mm	
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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	1.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.94	.92	.90	.88
3.0	.98	.93	.89	.96	.92	.89	.94	.90	.87	.91	.88	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.86	.82	.89	.85	.81	.87	.83	.80	.85	.82	.79	.78
5.0	.87	.81	.77	.86	.81	.77	.84	.79	.76	.82	.78	.75	.81	.77	.75	.73
6.0	.82	.76	.72	.81	.76	.72	.79	.75	.71	.78	.74	.71	.77	.73	.70	.69
7.0	.77	.72	.68	.77	.71	.67	.75	.71	.67	.74	.70	.67	.73	.69	.66	.65
8.0	.73	.68	.64	.73	.67	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.62
9.0	.69	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.60	.66	.62	.59	.58
10.0	.66	.61	.57	.66	.60	.57	.65	.60	.57	.64	.60	.57	.63	.59	.56	.55



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WEC AND CCEC

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SPEC.:3000K	DIM.: ϕ 78mm*H98mm	
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	.168	.096	.030	.161	.092	.029	.149	.085	.027	.137	.079	.025	.127	.073	.024		
2.0	.160	.088	.027	.155	.085	.026	.144	.080	.025	.134	.075	.024	.126	.071	.022		
3.0	.153	.081	.024	.148	.079	.024	.139	.075	.023	.131	.072	.022	.123	.068	.021		
4.0	.145	.076	.022	.141	.074	.022	.134	.071	.021	.126	.068	.020	.120	.065	.020		
5.0	.139	.071	.020	.135	.069	.020	.128	.067	.020	.122	.064	.019	.116	.062	.019		
6.0	.132	.066	.019	.129	.065	.019	.124	.063	.018	.118	.061	.018	.113	.059	.018		
7.0	.127	.063	.018	.124	.062	.018	.119	.060	.017	.114	.058	.017	.110	.057	.017		
8.0	.122	.059	.017	.119	.059	.017	.115	.057	.016	.110	.056	.016	.106	.055	.016		
9.0	.117	.056	.016	.115	.056	.016	.110	.055	.015	.107	.053	.015	.103	.052	.015		
10.0	.112	.054	.015	.110	.053	.015	.107	.052	.015	.103	.051	.015	.100	.050	.014		

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	.171	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.133	.114	.098	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.114	.091	.122	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.113	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.037	.042	.031	.022	.014	.010	.007	
6.0	.115	.078	.051	.099	.067	.044	.068	.047	.031	.039	.028	.019	.013	.009	.006	
7.0	.108	.070	.043	.093	.061	.037	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.088	.055	.032	.061	.039	.023	.036	.023	.014	.011	.007	.004	
9.0	.097	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.093	.054	.028	.080	.047	.024	.056	.033	.017	.032	.019	.010	.011	.006	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-21

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:220.8V I:0.0634A P:13.63W PF:0.9737 Freq:49.99Hz Lamp Flux:575.664x1 lm										
NAME: S68R1-13W-DW-930-W					TYPE:Downlight			SERIAL No.:		
SPEC.:3000K					DIM.: ϕ 78mm*H98mm					
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	8.4	9.3	8.7	9.5	9.7	16.5	17.4	16.8	17.6	17.8
3H	8.3	9.1	8.5	9.3	9.5	16.4	17.2	16.6	17.4	17.6
4H	8.2	9.0	8.5	9.2	9.4	16.3	17.1	16.6	17.3	17.5
6H	8.1	8.8	8.4	9.1	9.3	16.2	16.9	16.5	17.2	17.4
8H	8.1	8.8	8.4	9.0	9.3	16.2	16.9	16.5	17.1	17.4
12H	8.0	8.7	8.3	8.9	9.2	16.1	16.8	16.4	17.0	17.3
4H 2H	8.2	9.0	8.5	9.2	9.4	16.3	17.1	16.6	17.3	17.5
3H	8.0	8.7	8.4	9.0	9.3	16.1	16.8	16.4	17.0	17.3
4H	8.0	8.6	8.3	8.8	9.2	16.0	16.6	16.4	16.9	17.2
6H	7.9	8.4	8.2	8.7	9.1	15.9	16.5	16.3	16.8	17.1
8H	7.8	8.3	8.2	8.6	9.0	15.9	16.4	16.3	16.7	17.1
12H	7.8	8.2	8.2	8.6	9.0	15.8	16.3	16.2	16.6	17.0
8H 4H	7.8	8.3	8.2	8.6	9.0	15.9	16.4	16.3	16.7	17.1
6H	7.7	8.1	8.1	8.5	8.9	15.8	16.2	16.2	16.6	17.0
8H	7.6	8.0	8.1	8.4	8.9	15.7	16.1	16.2	16.5	16.9
12H	7.6	7.9	8.1	8.3	8.8	15.7	16.0	16.1	16.4	16.9
12H 4H	7.8	8.2	8.2	8.6	9.0	15.8	16.3	16.2	16.6	17.0
6H	7.6	8.0	8.1	8.4	8.9	15.7	16.1	16.2	16.5	16.9
8H	7.6	7.9	8.1	8.3	8.8	15.7	16.0	16.1	16.4	16.9
Variations with the observer position at spacings:										
S = 1.0H	+ 2.6 / -13.8					+ 5.4 / -16.7				
1.5H	+ 4.0 / - 8.8					+ 7.8 / -12.4				
2.0H	+ 5.3 / - 9.1					+ 7.5 / -13.7				

CIE Pub.117, 575.7 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -1.9$)

C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
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γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
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Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.8V I:0.0634A P:13.63W PF:0.9737 Freq:49.99Hz Lamp Flux:575.664x1 lm		
NAME: S68R1-13W-DW-930-W	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: $\varnothing 78\text{mm} \times H98\text{mm}$	
MFR.: NEKO LIGHTING AG		

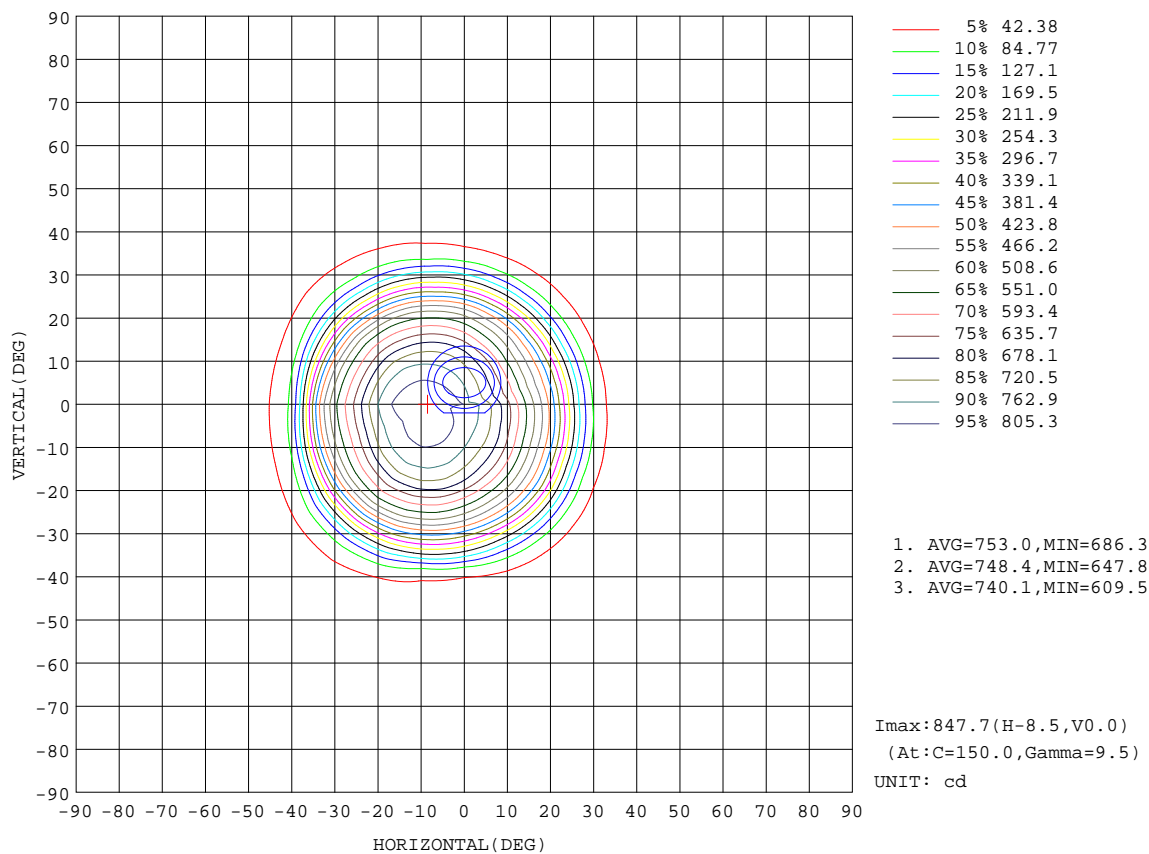
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	89	83	79	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
1.00	101	95	92	100	95	92	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	104	100	98	93
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	104	106	104	102	96
3.00	112	109	107	111	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
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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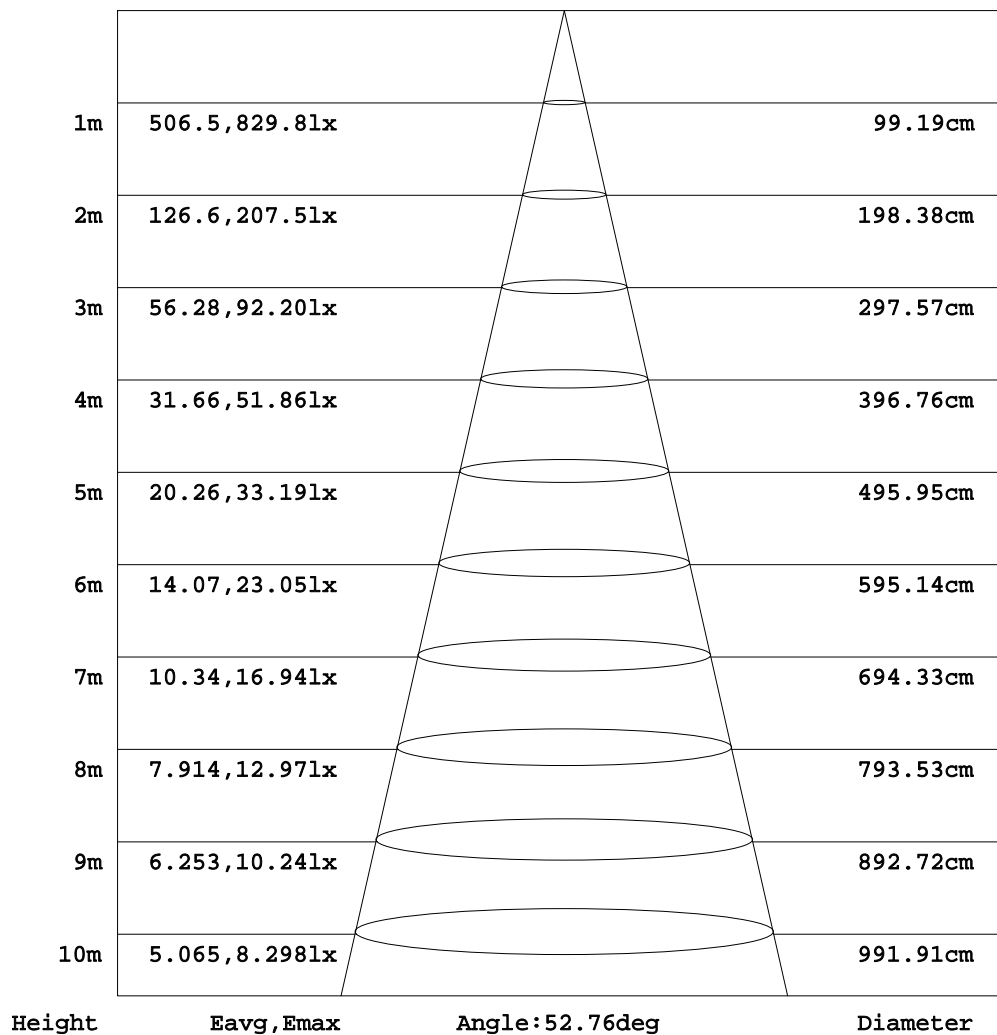
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AAI Figure

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Flux out:395.6 lm



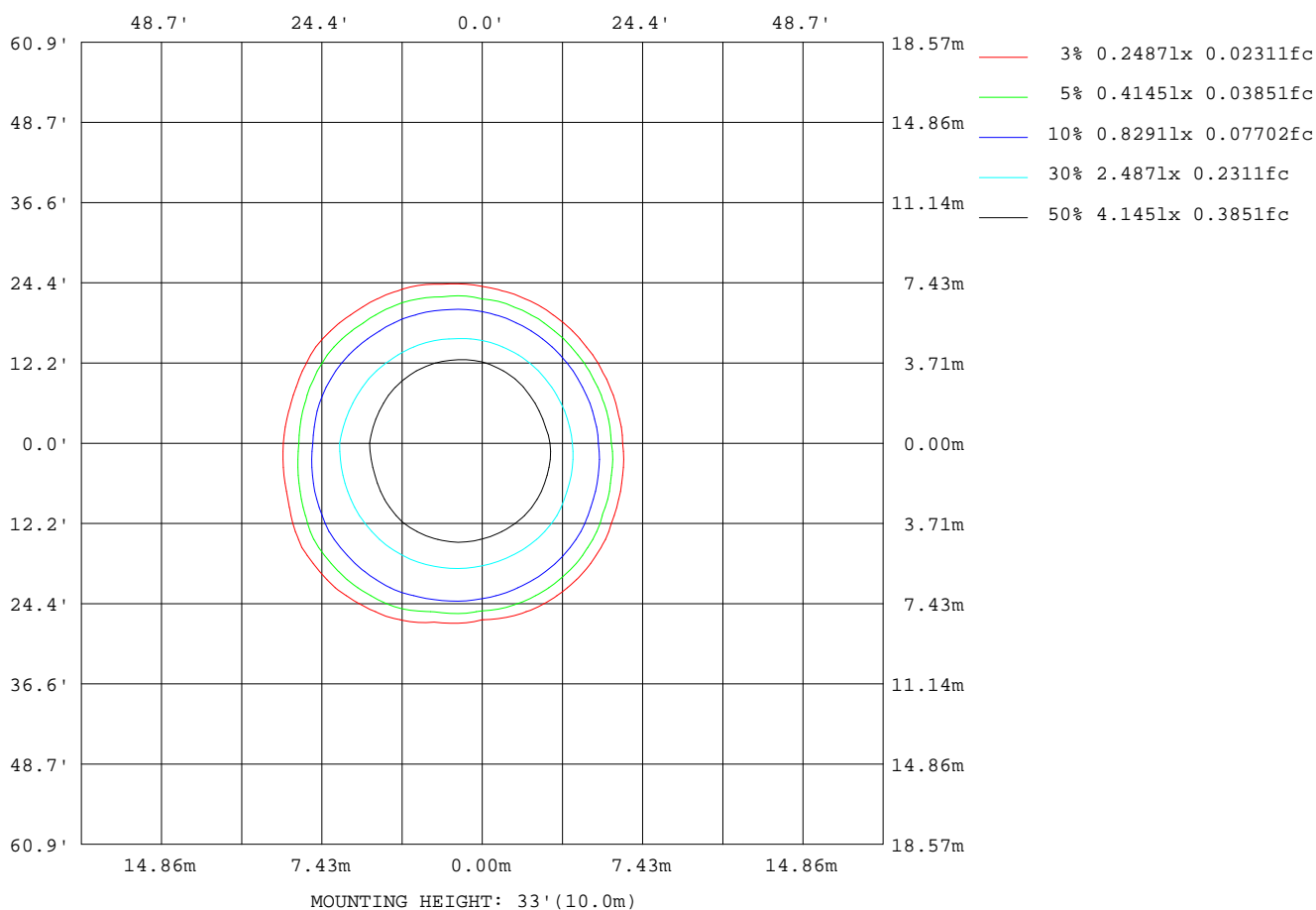
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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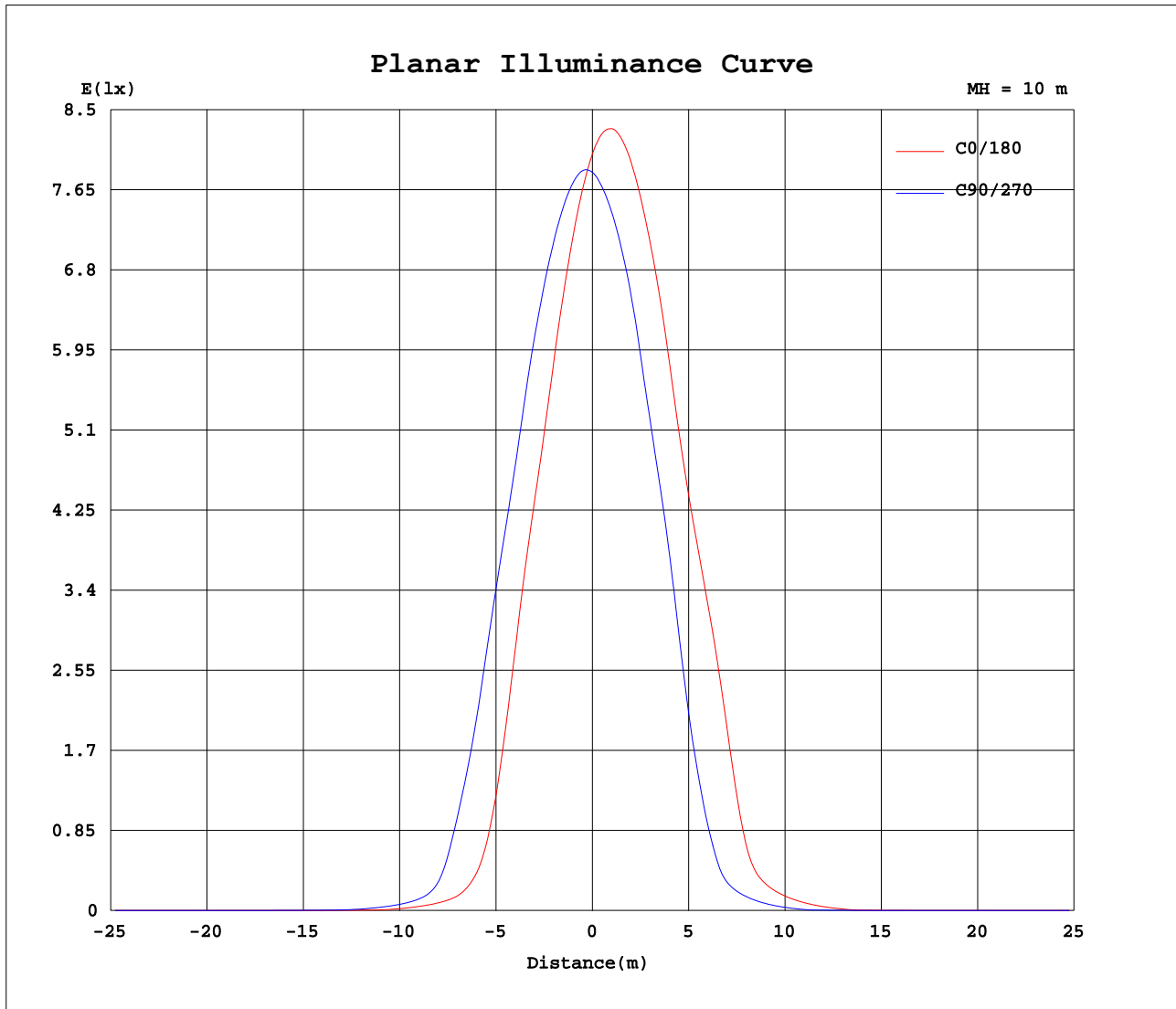
AvgL	cd/m2
L_0~180 (65) av	143
L_0~180 (75) av	12
L_0~180 (85) av	18
L_90~270 (65) av	170
L_90~270 (75) av	10
L_90~270 (85) av	19
L_45 (65) av	180
L_45 (75) av	8
L_45 (85) av	19

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2020-12-21

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: 2020-12-21

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:

```