

Breeze Single-9W-927-36°



Light Output Ratio:	100.0%	
Luminaire Power:	9.243 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2022-01-22

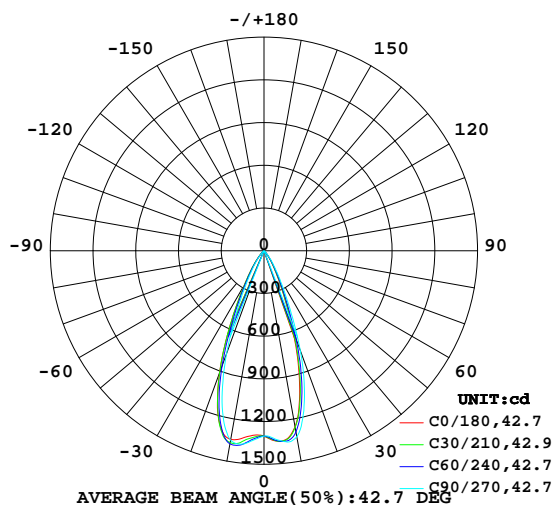
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

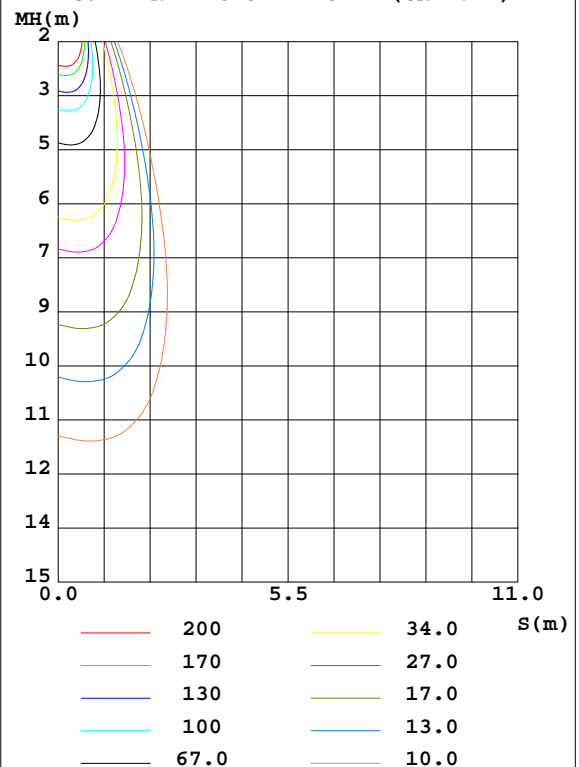
Test:U:220.83V I:0.0426A P:9.2426W PF:0.9820 Freq:49.99Hz Lamp Flux:709.581x1 lm		
NAME: Breeze Single-9W-927-36°	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: 260x180x40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 76.77 lm/W
MODEL	Bridgelux-2700K	Imax(cd)	1381	S/MH(C0/180)	0.70	
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.65	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	709.58	η UP,DN(C0-180)	0.0,49.0	
NOMINAL FLUX(lm)	709.581	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.0	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.65	

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:2022-01-22

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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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	1256	1277	1327	1338	1344	1375	1350	1286	0- 10	127.4	127.4	18,18
20	589.5	640.4	748.0	866.7	914.3	883.3	770.0	618.1	10- 20	298.3	425.7	60,60
30	148.9	165.0	203.7	249.3	270.7	257.4	211.8	153.2	20- 30	193.4	619.1	87.2,87.2
40	32.93	35.54	46.50	61.89	67.66	61.86	49.34	35.42	30- 40	69.20	688.3	97,97
50	5.434	5.705	7.824	10.58	11.97	10.53	8.246	5.528	40- 50	17.31	705.6	99.4,99.4
60	0.8285	1.044	1.306	1.711	1.968	1.777	1.227	0.9006	50- 60	3.242	708.9	99.9,99.9
70	0.2325	0.2445	0.3199	0.2626	0.3300	0.3700	0.2924	0.2263	60- 70	0.6123	709.5	100,100
80	0.0156	0.0052	0.0209	0.0053	0.0103	0.0260	0.0157	0.0210	70- 80	0.1047	709.6	100,100
90	0.0103	0.0052	0	0.0053	0.0103	0.0052	0.0105	0.0105	80- 90	0.0119	709.6	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): 700.26 lm

%lum = 98.7%

%lamp = 98.7%

Conical surface Flux(120deg): 708.85 lm

%lum = 99.9%

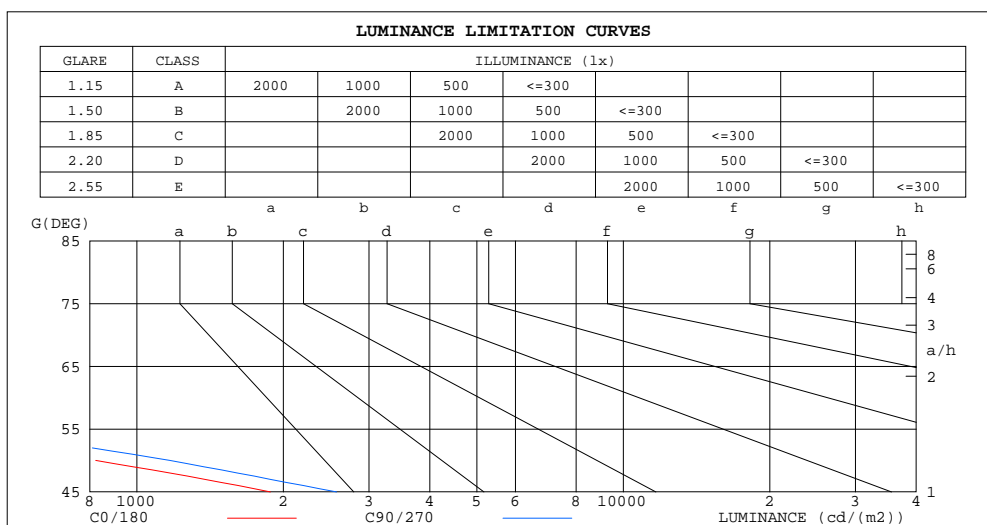
%lamp = 99.9%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2022-01-22

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:220.83V I:0.0426A P:9.2426W PF:0.9820 Freq:49.99Hz Lamp Flux:709.581x1 lm		
NAME: Breeze Single-9W-927-36°	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: 260x180x40mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	12	17
80	9	12
75	12	16
70	66	90
65	105	125
60	161	251
55	379	484
50	823	1169
45	1881	2574

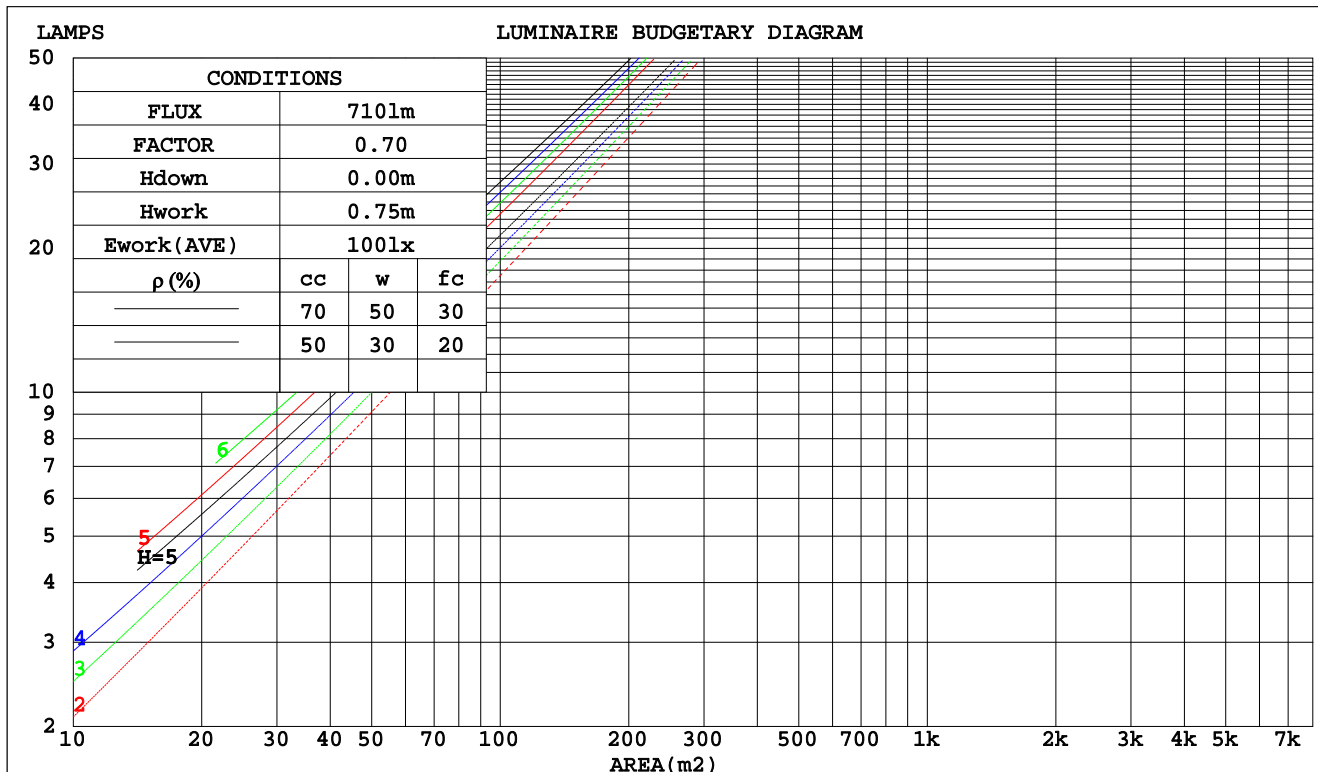
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:2700K	DIM.: 260x180x40mm	
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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	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	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.05	1.02	.99	1.04	1.01	.98	1.01	.98	.96	.98	.96	.94	.95	.93	.92	.90
3.0	.00	.95	.92	.98	.94	.91	.96	.93	.90	.93	.91	.88	.91	.89	.87	.86
4.0	.95	.90	.86	.93	.89	.86	.91	.88	.85	.89	.86	.84	.88	.85	.83	.81
5.0	.90	.85	.81	.89	.84	.81	.87	.83	.80	.86	.82	.79	.84	.81	.79	.78
6.0	.86	.80	.77	.85	.80	.77	.83	.79	.76	.82	.78	.76	.81	.78	.75	.74
7.0	.82	.77	.73	.81	.76	.73	.80	.76	.72	.79	.75	.72	.78	.74	.72	.70
8.0	.78	.73	.69	.77	.73	.69	.76	.72	.69	.76	.72	.69	.75	.71	.69	.67
9.0	.75	.70	.66	.74	.69	.66	.73	.69	.66	.73	.69	.66	.72	.68	.66	.64
10.0	.72	.67	.63	.71	.67	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.62



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γ Range: 0 - 90DEG
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WEC AND CCEC

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SPEC.:2700K	DIM.: 260x180x40mm	
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	.157	.089	.028	.150	.086	.027	.137	.079	.025	.126	.073	.023	.115	.067	.022	
2.0	.148	.081	.025	.142	.078	.024	.132	.073	.023	.122	.069	.021	.113	.064	.020	
3.0	.140	.074	.022	.135	.072	.022	.126	.068	.021	.118	.065	.020	.111	.061	.019	
4.0	.132	.069	.020	.128	.067	.020	.121	.064	.019	.114	.061	.018	.108	.058	.018	
5.0	.126	.064	.019	.123	.063	.018	.116	.060	.018	.110	.058	.017	.104	.056	.017	
6.0	.120	.060	.017	.117	.059	.017	.111	.057	.017	.106	.055	.016	.101	.053	.016	
7.0	.115	.057	.016	.112	.056	.016	.107	.054	.016	.102	.053	.015	.098	.051	.015	
8.0	.110	.054	.015	.108	.053	.015	.103	.052	.015	.099	.050	.014	.095	.049	.014	
9.0	.105	.051	.014	.103	.050	.014	.099	.049	.014	.096	.048	.014	.092	.047	.014	
10.0	.101	.049	.013	.099	.048	.013	.096	.047	.013	.093	.046	.013	.089	.045	.013	

ρcc	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						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.170	.157	.146	.145	.135	.126	.099	.093	.087	.057	.054	.051	.018	.017	.016		
2.0	.153	.133	.115	.131	.114	.100	.090	.079	.070	.052	.046	.041	.017	.015	.013		
3.0	.139	.113	.093	.120	.098	.080	.082	.068	.056	.047	.040	.033	.015	.013	.011		
4.0	.128	.098	.076	.110	.085	.066	.076	.059	.046	.044	.035	.027	.014	.011	.009		
5.0	.119	.086	.063	.102	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008		
6.0	.111	.077	.053	.095	.067	.046	.066	.047	.032	.038	.027	.019	.012	.009	.006		
7.0	.104	.069	.045	.089	.060	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005		
8.0	.098	.063	.038	.084	.054	.033	.058	.038	.024	.034	.022	.014	.011	.007	.005		
9.0	.092	.057	.033	.080	.050	.029	.055	.035	.021	.032	.021	.012	.010	.007	.004		
10.0	.088	.053	.029	.076	.046	.025	.053	.032	.018	.031	.019	.011	.010	.006	.004		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2022-01-22

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:220.83V I:0.0426A P:9.2426W PF:0.9820 Freq:49.99Hz Lamp Flux:709.581x1 lm										
NAME: Breeze Single-9W-927-36°					TYPE:Downlight			SERIAL No.:		
SPEC.:2700K					DIM.: 260x180x40mm					
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	7.6	8.4	7.8	8.6	8.7	8.8	9.6	9.1	9.8	10.0
3H	7.4	8.2	7.7	8.4	8.6	8.7	9.4	8.9	9.6	9.8
4H	7.4	8.1	7.6	8.3	8.5	8.6	9.3	8.9	9.5	9.7
6H	7.3	7.9	7.6	8.2	8.4	8.5	9.2	8.8	9.4	9.6
8H	7.2	7.9	7.5	8.1	8.4	8.5	9.1	8.8	9.4	9.6
12H	7.2	7.8	7.5	8.0	8.3	8.4	9.0	8.7	9.3	9.6
4H 2H	7.4	8.1	7.6	8.3	8.5	8.6	9.3	8.9	9.5	9.7
3H	7.2	7.8	7.5	8.1	8.3	8.4	9.0	8.7	9.3	9.6
4H	7.1	7.6	7.4	7.9	8.2	8.3	8.9	8.7	9.2	9.5
6H	7.0	7.5	7.4	7.8	8.2	8.2	8.7	8.6	9.1	9.4
8H	6.9	7.4	7.3	7.7	8.1	8.2	8.6	8.6	9.0	9.4
12H	6.9	7.3	7.3	7.7	8.1	8.1	8.5	8.5	8.9	9.3
8H 4H	6.9	7.4	7.3	7.7	8.1	8.2	8.6	8.6	9.0	9.4
6H	6.8	7.2	7.3	7.6	8.0	8.1	8.5	8.5	8.8	9.3
8H	6.8	7.1	7.2	7.5	8.0	8.0	8.4	8.5	8.8	9.2
12H	6.7	7.0	7.2	7.4	7.9	8.0	8.2	8.4	8.7	9.2
12H 4H	6.9	7.3	7.3	7.7	8.1	8.1	8.5	8.5	8.9	9.3
6H	6.8	7.1	7.2	7.5	8.0	8.0	8.4	8.5	8.8	9.2
8H	6.7	7.0	7.2	7.4	7.9	8.0	8.2	8.4	8.7	9.2
Variations with the observer position at spacings:										
S = 1.0H	+ 3.4 / -13.5					+ 4.1 / -13.5				
1.5H	+ 5.7 / -10.6					+ 6.4 / -11.4				
2.0H	+ 6.6 / - 9.5					+ 7.3 / -10.4				

CIE Pub.117, 709.6 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -1.2$)
Area: 0.0104 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2022-01-22

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:220.83V I:0.0426A P:9.2426W PF:0.9820 Freq:49.99Hz Lamp Flux:709.581x1 lm		
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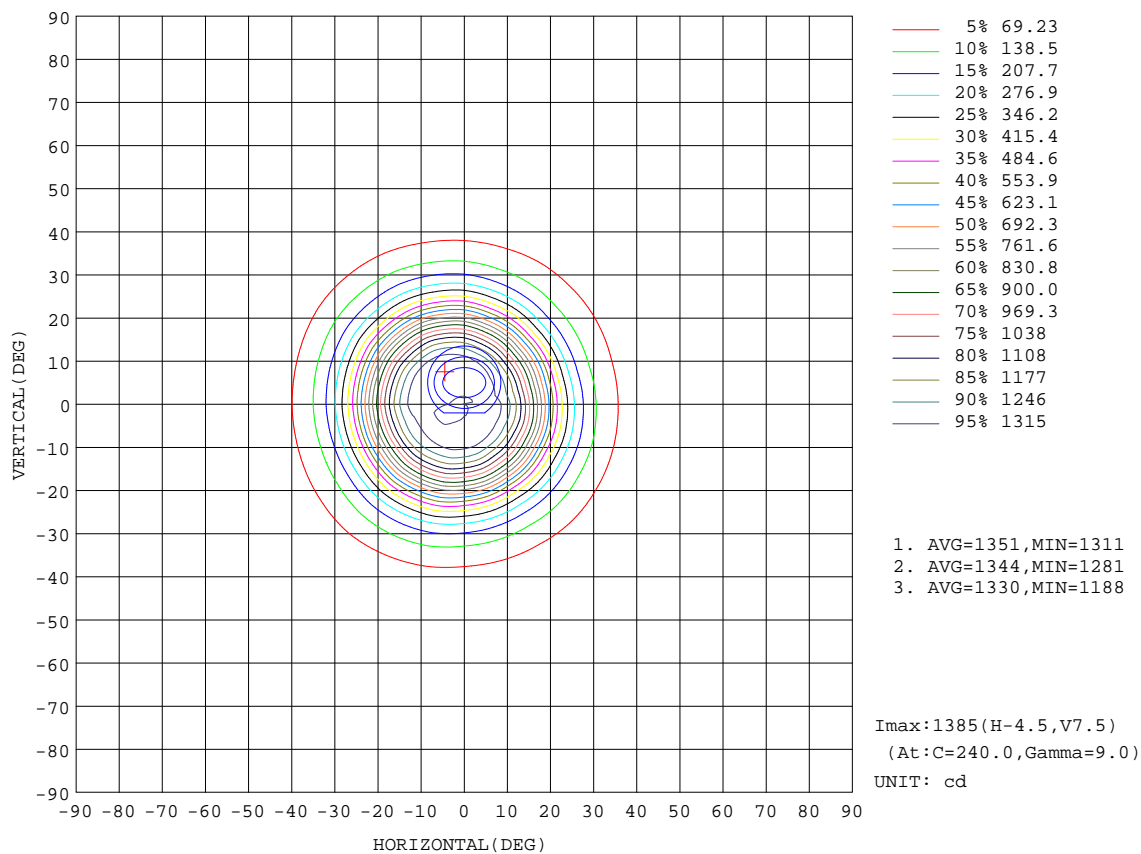
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	80	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	95	91	87	84
1.00	101	96	92	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	95	91
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	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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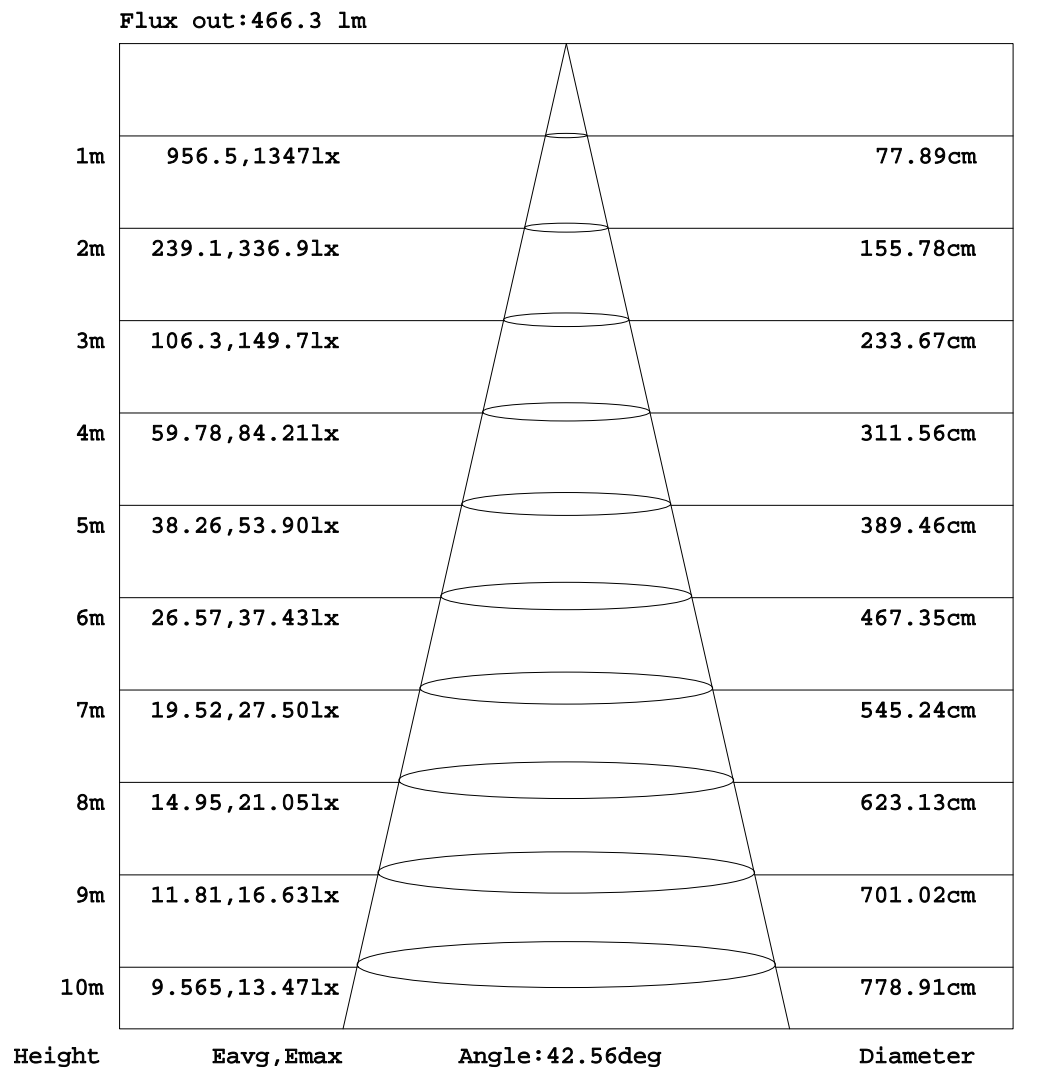


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AAI Figure

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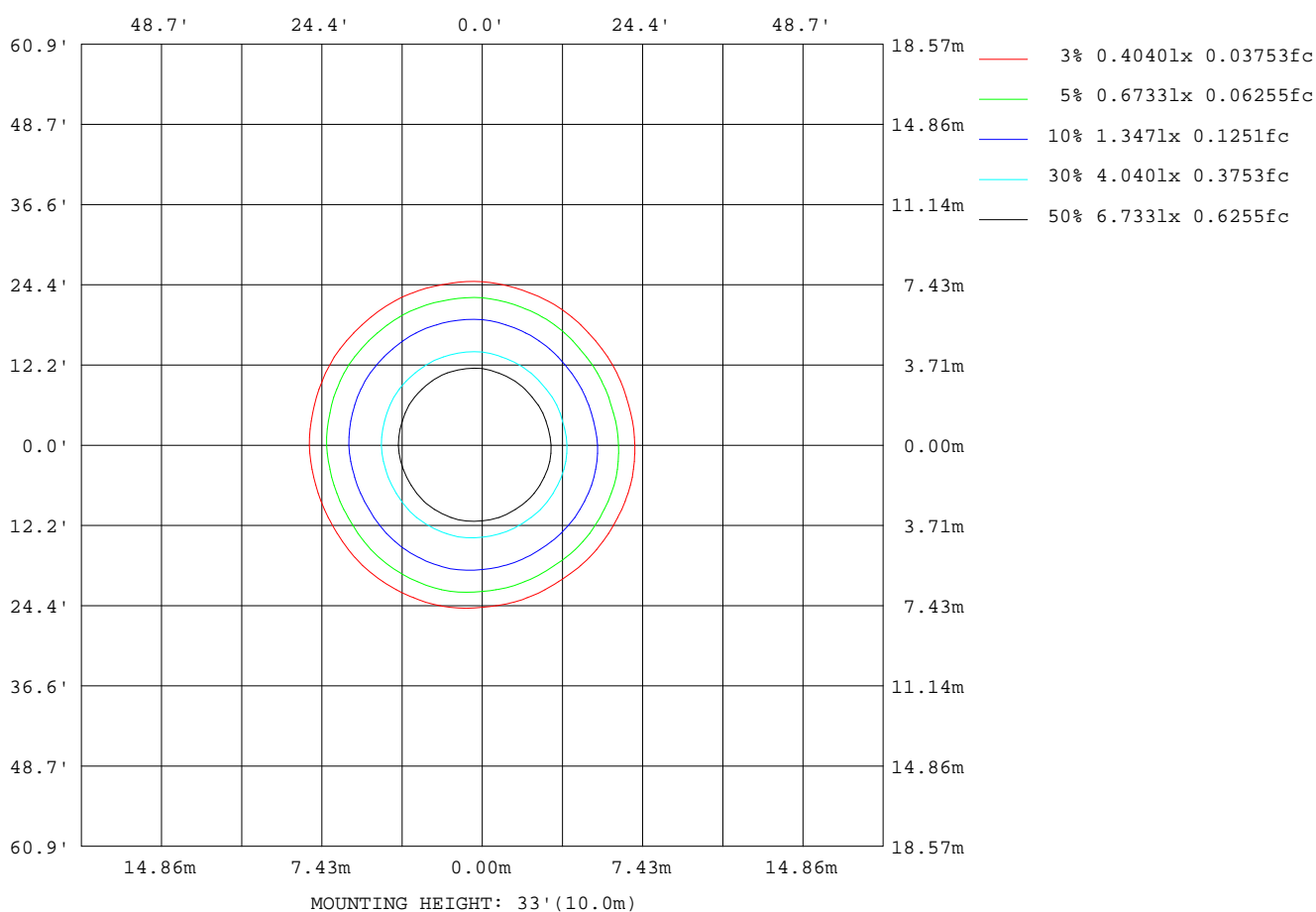
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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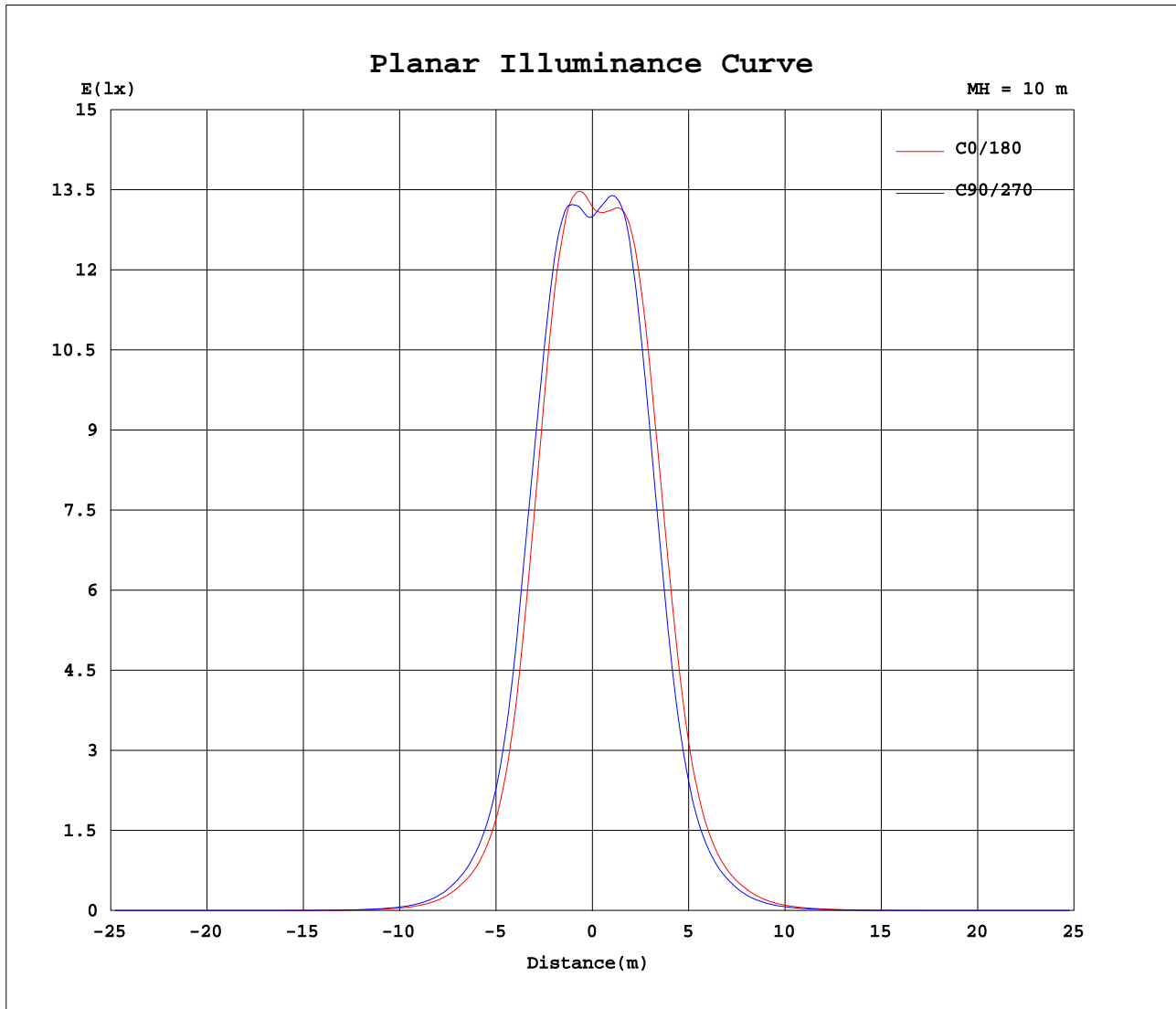
AvgL	cd/m2
L_0~180(65)av	118
L_0~180(75)av	34
L_0~180(85)av	11
L_90~270(65)av	119
L_90~270(75)av	11
L_90~270(85)av	17
L_45(65)av	120
L_45(75)av	29
L_45(85)av	10

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2022-01-22

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: 2022-01-22

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:

```