

Breeze Triple-27W-927-36°

Light Output Ratio:	100.0%	
Luminaire Power:	27.46 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

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

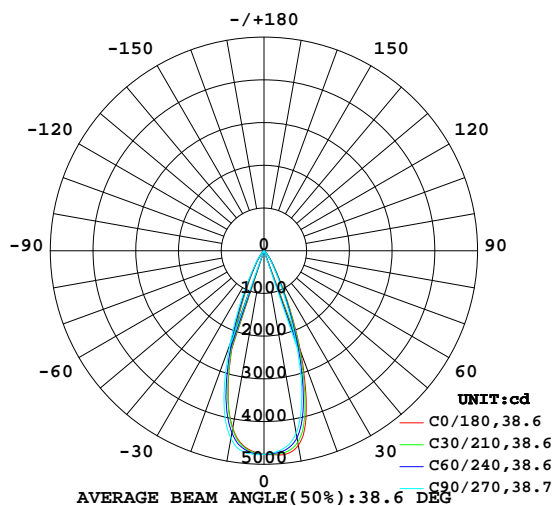
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

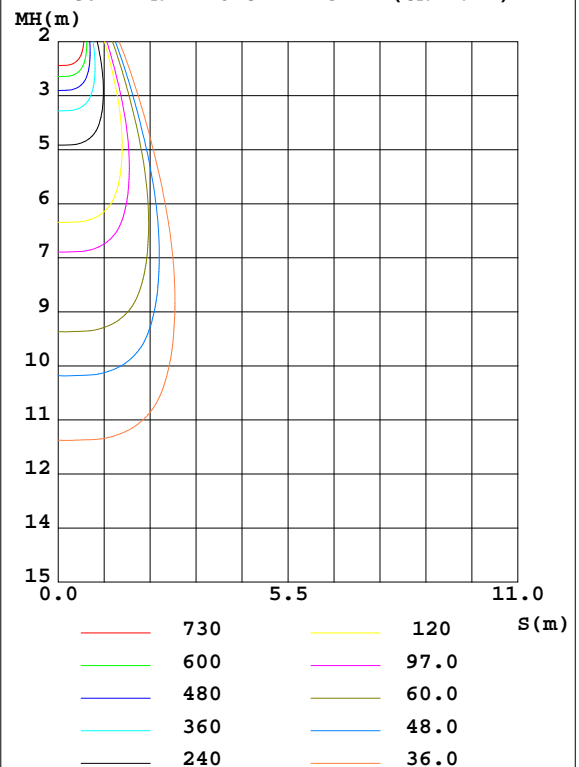
Test:U:220.8V I:0.1266A P:27.46W PF:0.9819 Freq:49.99Hz Lamp Flux:2141.21x1 lm		
NAME: Breeze Triple-27W-927-36°	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: 430x180x40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.98 lm/W			
MODEL	Bridgelux-2700K	I _{max} (cd)	4815	S/MH(C0/180)	0.57
NOMINAL POWER(W)	27	LOR(%)	100.0	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2141.2	η UP,DN(C0-180)	0.0,49.4
NOMINAL FLUX(lm)	2141.21	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
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Operators:Jason
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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	4624	4509	4337	4252	4221	4255	4462	4633	0- 10	441.3	441.3	20.6,20.6
20	2490	2382	2099	1953	1942	2035	2331	2487	10- 20	944.3	1386	64.7,64.7
30	608.4	579.4	493.6	414.0	440.4	466.5	547.4	584.0	20- 30	530.7	1916	89.5,89.5
40	148.1	137.0	112.8	92.69	98.27	108.8	131.2	145.7	30- 40	170.7	2087	97.5,97.5
50	24.72	24.10	20.06	16.23	17.12	18.90	22.17	23.95	40- 50	43.54	2131	99.5,99.5
60	4.013	3.985	3.685	2.959	3.020	3.225	3.650	3.872	50- 60	8.258	2139	99.9,99.9
70	1.007	0.9148	0.9663	0.9037	0.8181	0.9744	1.062	1.227	60- 70	1.901	2141	100,100
80	0.0981	0.0729	0.0996	0.0683	0.0773	0.1103	0.0890	0.1137	70- 80	0.3769	2141	100,100
90	0.0670	0.0677	0.0681	0.0631	0.0773	0.0833	0.0891	0.0842	80- 90	0.0885	2141	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): 2116.9 lm

%lum = 98.9%

%lamp = 98.9%

Conical surface Flux(120deg): 2138.8 lm

%lum = 99.9%

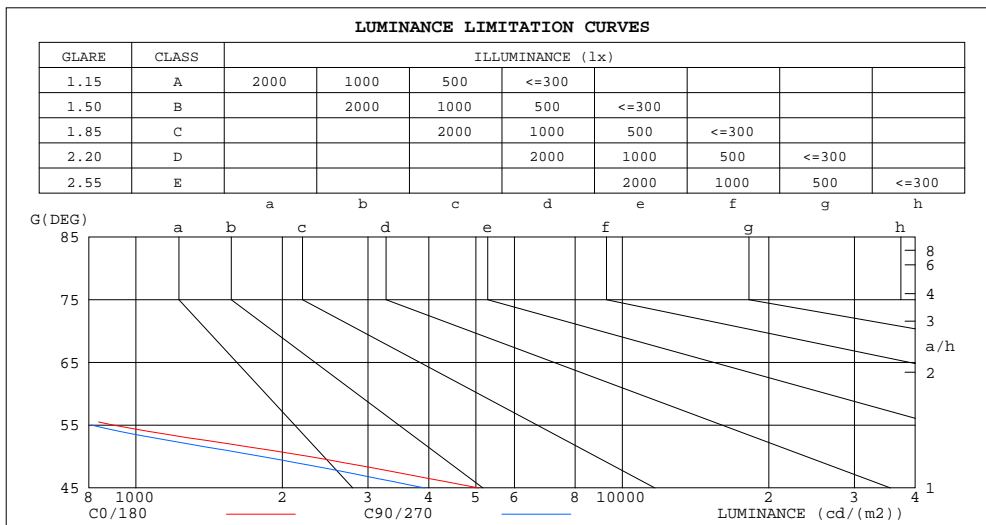
%lamp = 99.9%

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

LUMINANCE LIMITATION CURVES

Test:U:220.8V I:0.1266A P:27.46W PF:0.9819 Freq:49.99Hz Lamp Flux:2141.21x1 lm		
NAME: Breeze Triple-27W-927-36°	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: 430x180x40mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	52	52
80	33	33
75	64	51
70	174	164
65	249	254
60	473	427
55	898	810
50	2267	1809
45	5064	3919

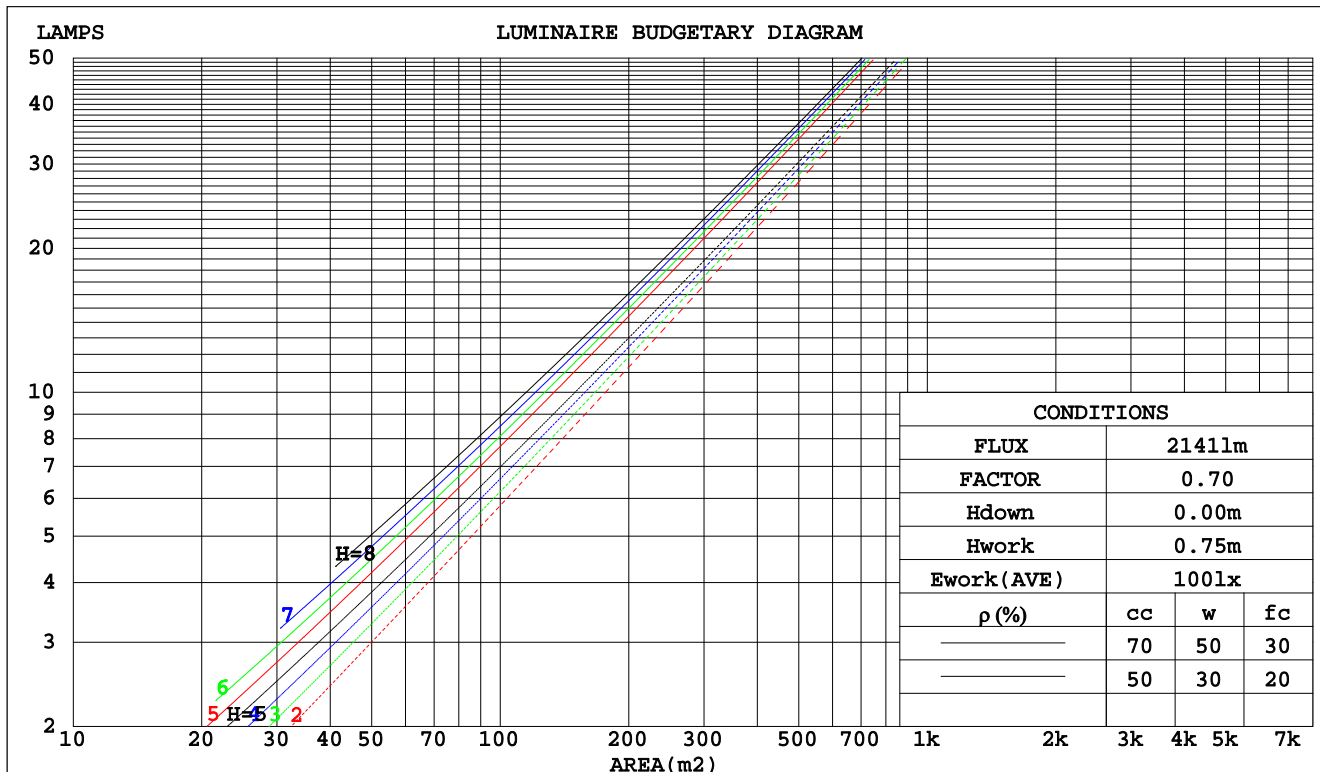
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:2700K	DIM.: 430x180x40mm	
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	.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	1.00	.99	.98	.97	.95
2.0	1.06	1.03	.00	1.04	1.01	.99	1.01	.99	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.97	.93	.91	.94	.92	.89	.92	.90	.88	.87
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.82	.88	.85	.82	.87	.84	.81	.85	.83	.80	.79
6.0	.87	.82	.79	.86	.82	.78	.85	.81	.78	.83	.80	.77	.82	.79	.77	.76
7.0	.83	.78	.75	.83	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.74	.72
8.0	.80	.75	.72	.79	.75	.71	.78	.74	.71	.77	.74	.71	.76	.73	.71	.69
9.0	.77	.72	.69	.76	.72	.68	.75	.71	.68	.74	.71	.68	.74	.70	.68	.67
10.0	.74	.69	.66	.73	.69	.66	.73	.68	.66	.72	.68	.65	.71	.68	.65	.64



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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	.152	.087	.027	.146	.083	.026	.133	.076	.024	.122	.070	.023	.111	.065	.021		
2.0	.143	.079	.024	.138	.076	.023	.128	.071	.022	.118	.066	.021	.109	.062	.019		
3.0	.135	.072	.022	.131	.070	.021	.122	.066	.020	.114	.062	.019	.106	.059	.018		
4.0	.128	.066	.020	.124	.065	.019	.117	.062	.018	.110	.059	.018	.103	.056	.017		
5.0	.121	.062	.018	.118	.061	.018	.112	.058	.017	.106	.056	.017	.100	.053	.016		
6.0	.116	.058	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015		
7.0	.110	.055	.015	.108	.054	.015	.103	.052	.015	.098	.050	.015	.094	.049	.014		
8.0	.106	.052	.015	.103	.051	.014	.099	.049	.014	.095	.048	.014	.091	.047	.014		
9.0	.101	.049	.014	.099	.048	.014	.095	.047	.013	.092	.046	.013	.088	.045	.013		
10.0	.097	.047	.013	.096	.046	.013	.092	.045	.013	.089	.044	.013	.086	.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	.131	.114	.100	.089	.079	.070	.052	.046	.041	.017	.015	.013		
3.0	.139	.113	.093	.119	.098	.081	.082	.068	.057	.047	.040	.033	.015	.013	.011		
4.0	.127	.098	.076	.109	.085	.066	.075	.059	.047	.043	.035	.028	.014	.011	.009		
5.0	.117	.086	.063	.101	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008		
6.0	.109	.077	.053	.094	.066	.046	.065	.046	.033	.038	.027	.020	.012	.009	.006		
7.0	.102	.069	.045	.088	.060	.039	.061	.042	.028	.035	.025	.017	.011	.008	.006		
8.0	.096	.062	.039	.083	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005		
9.0	.091	.057	.034	.078	.049	.029	.054	.035	.021	.032	.020	.012	.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
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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:220.8V I:0.1266A P:27.46W PF:0.9819 Freq:49.99Hz Lamp Flux:2141.21x1 lm										
NAME: Breeze Triple-27W-927-36°					TYPE:Downlight			SERIAL No.:		
SPEC.:2700K					DIM.: 430x180x40mm					
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	9.1	9.8	9.3	10.0	10.1	8.1	8.8	8.3	9.0	9.2
3H	8.9	9.6	9.1	9.8	10.0	7.9	8.6	8.2	8.8	9.0
4H	8.8	9.5	9.1	9.7	9.9	7.8	8.5	8.1	8.7	8.9
6H	8.7	9.4	9.0	9.6	9.8	7.8	8.4	8.0	8.6	8.9
8H	8.7	9.3	9.0	9.5	9.8	7.7	8.3	8.0	8.6	8.8
12H	8.6	9.2	9.0	9.5	9.8	7.7	8.3	8.0	8.5	8.8
4H 2H	8.8	9.5	9.1	9.7	9.9	7.9	8.5	8.1	8.7	9.0
3H	8.7	9.2	9.0	9.5	9.8	7.7	8.3	8.0	8.5	8.8
4H	8.6	9.1	8.9	9.4	9.7	7.6	8.1	7.9	8.4	8.7
6H	8.5	8.9	8.8	9.3	9.6	7.5	8.0	7.9	8.3	8.6
8H	8.4	8.8	8.8	9.2	9.6	7.4	7.9	7.8	8.2	8.6
12H	8.4	8.8	8.8	9.1	9.5	7.4	7.8	7.8	8.2	8.5
8H 4H	8.4	8.8	8.8	9.2	9.6	7.4	7.9	7.8	8.2	8.6
6H	8.3	8.7	8.7	9.0	9.5	7.3	7.7	7.8	8.1	8.5
8H	8.2	8.6	8.7	9.0	9.4	7.3	7.6	7.7	8.0	8.4
12H	8.2	8.5	8.6	8.9	9.4	7.2	7.5	7.7	7.9	8.4
12H 4H	8.4	8.8	8.8	9.1	9.5	7.4	7.8	7.8	8.2	8.5
6H	8.2	8.6	8.7	9.0	9.4	7.3	7.6	7.7	8.0	8.4
8H	8.2	8.5	8.6	8.9	9.4	7.2	7.5	7.7	7.9	8.4
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / -13.8					+ 3.0 / -13.1				
1.5H	+ 5.7 / -10.9					+ 5.1 / - 9.8				
2.0H	+ 6.7 / -11.0					+ 6.0 / - 9.9				

CIE Pub.117, 2141 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.6$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
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Temperature:25.3DEG
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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:

UTILIZATION FACTORS TABLE

Test:U:220.8V I:0.1266A P:27.46W PF:0.9819 Freq:49.99Hz Lamp Flux:2141.21x1 lm		
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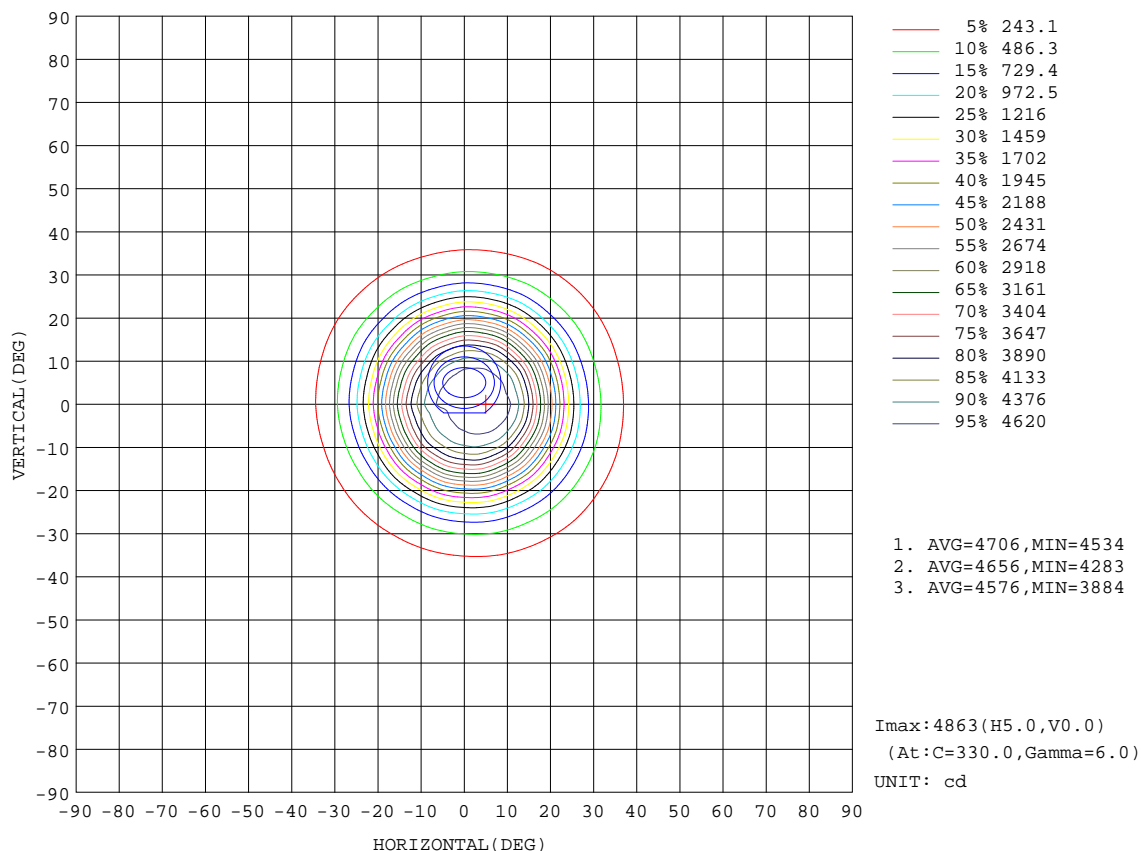
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	89	84	80	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	95	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	105	103	100	95
2.50	111	108	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	116	113	112	113	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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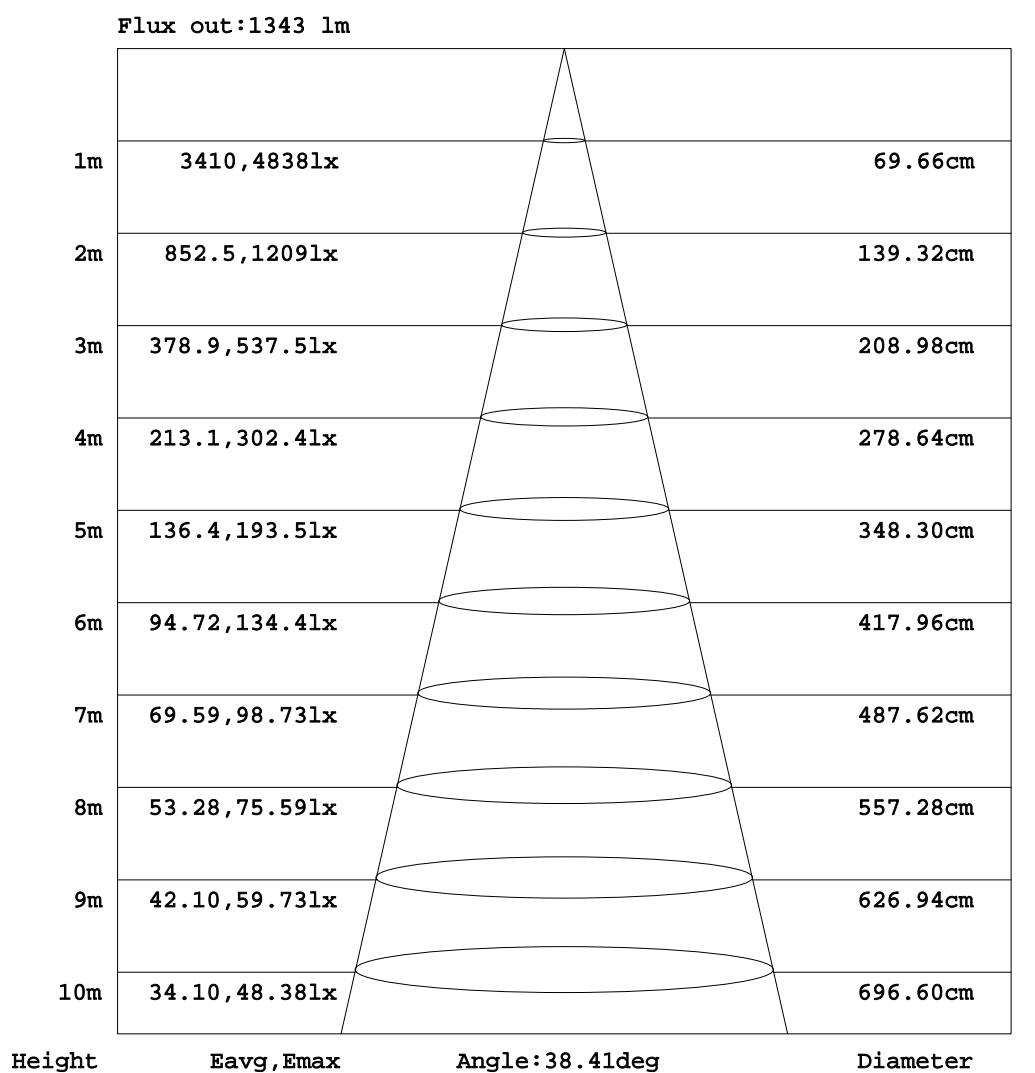


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AAI Figure

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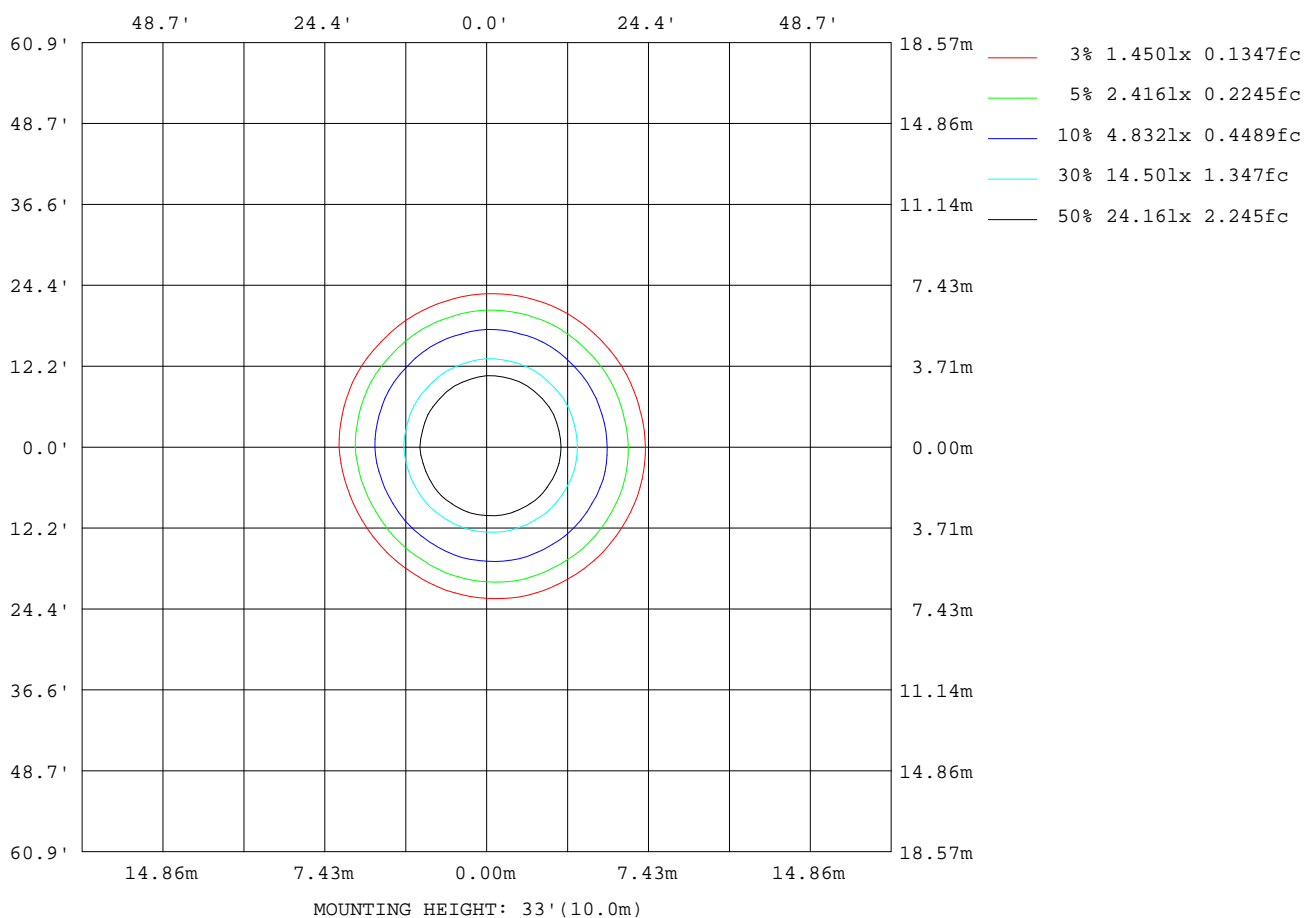
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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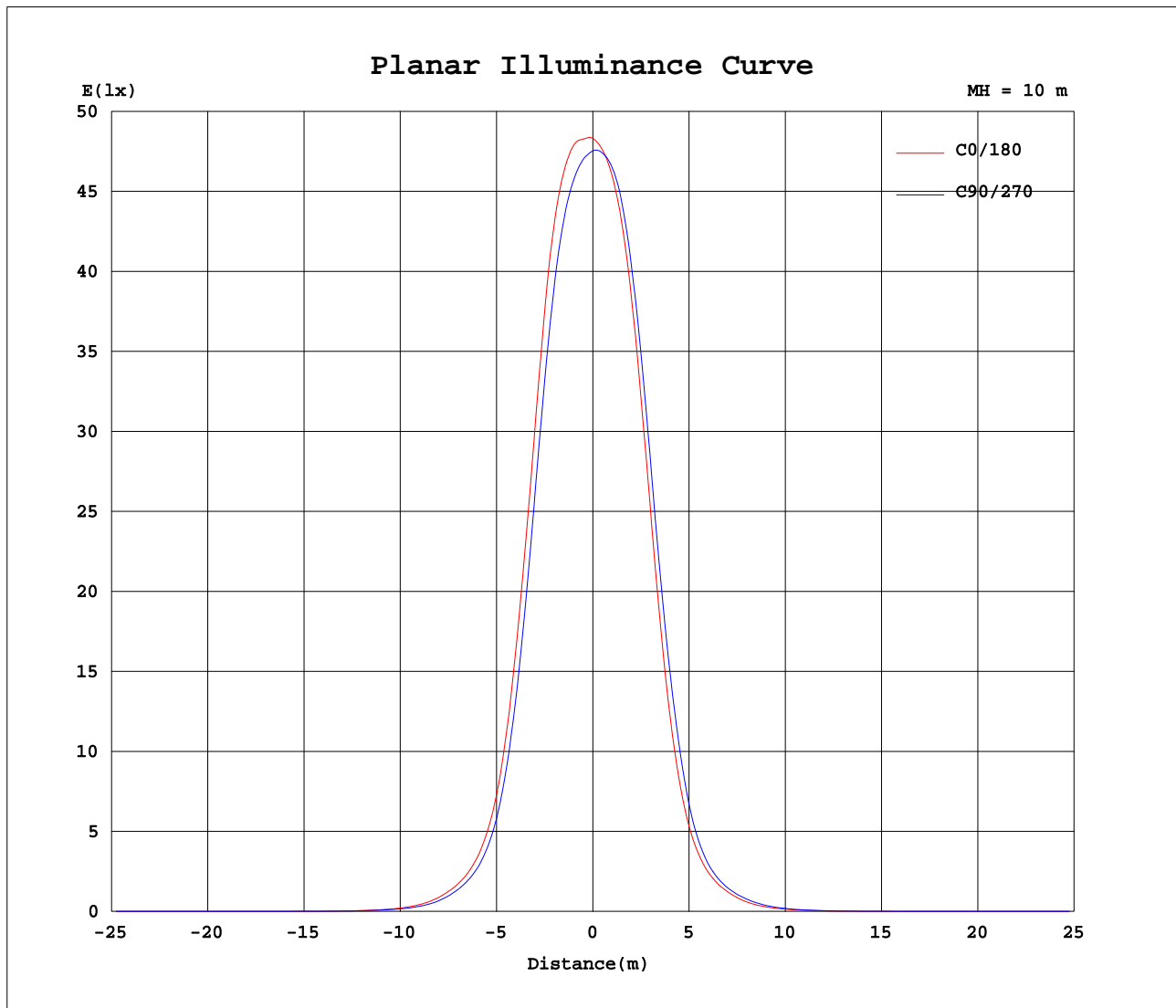
AvgL	cd/m2
L_0~180(65)av	233
L_0~180(75)av	41
L_0~180(85)av	52
L_90~270(65)av	254
L_90~270(75)av	59
L_90~270(85)av	54
L_45(65)av	244
L_45(75)av	52
L_45(85)av	54

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:

```