

Breeze Double-18W-927-36°



Light Output Ratio:	100.0%	
Luminaire Power:	18.62 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

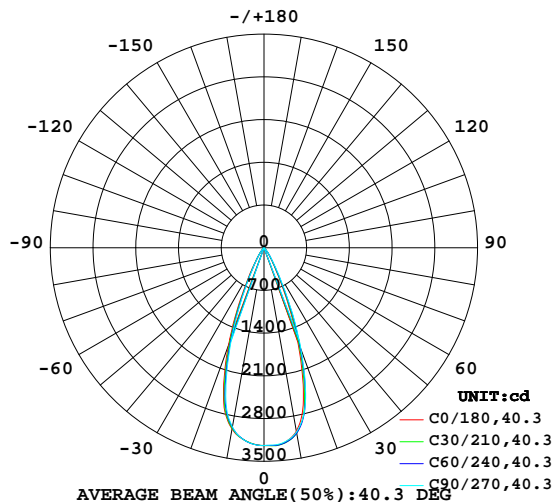
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

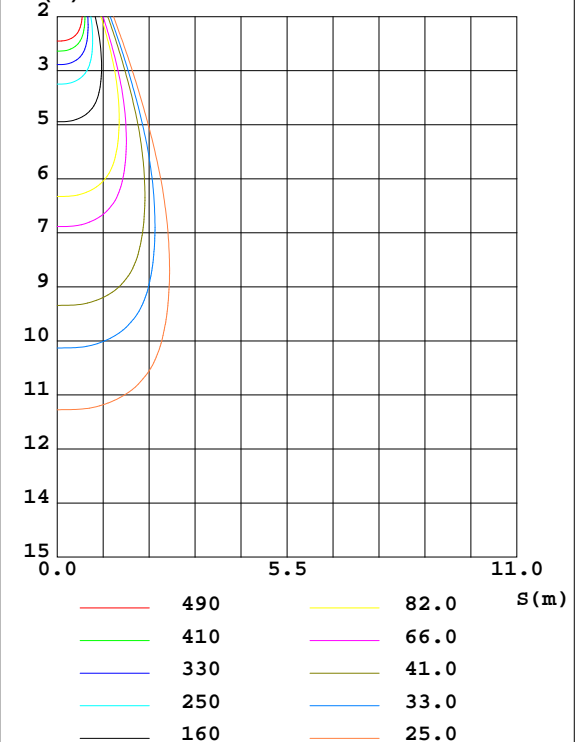
Test:U:220.8V I:0.0858A P:18.62W PF:0.9821 Freq:49.99Hz Lamp Flux:1499.74x1 lm		
NAME: Breeze Double-18W-927-36°	TYPE:Downlight	SERIAL No.:
SPEC.:2700K	DIM.: 260x180x40mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.56 lm/W			
MODEL	Bridgelux-2700K	I _{max} (cd)	3250	S/MH(C0/180)	0.62
NOMINAL POWER(W)	18	LOR(%)	100.0	S/MH(C90/270)	0.60
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1499.7	η UP,DN(C0-180)	0.0,51.9
NOMINAL FLUX(lm)	1499.74	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.1
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)



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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	3053	3097	3066	3032	3017	2988	2984	2996	0- 10	300.7	300.7	20.1,20.1
20	1590	1724	1776	1782	1708	1580	1520	1510	10- 20	675.1	975.8	65.1,65.1
30	313.7	360.4	394.0	398.3	363.1	317.8	309.4	294.1	20- 30	387.3	1363	90.9,90.9
40	65.32	74.69	80.13	80.51	73.50	66.09	66.06	62.00	30- 40	107.0	1470	98,98
50	10.15	11.83	12.52	12.63	11.69	10.21	10.47	9.725	40- 50	24.35	1494	99.6,99.6
60	1.609	1.950	2.010	1.885	1.808	1.549	1.799	1.596	50- 60	4.138	1499	99.9,99.9
70	0.3880	0.5199	0.5038	0.4517	0.3762	0.4117	0.4288	0.4369	60- 70	0.8964	1500	100,100
80	0.0516	0.0364	0.0576	0.0263	0.0413	0.0625	0.0471	0.0580	70- 80	0.1739	1500	100,100
90	0.0361	0.0364	0.0367	0.0368	0.0413	0.0469	0.0471	0.0526	80- 90	0.0489	1500	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): 1487.1 lm

%lum = 99.2%

%lamp = 99.2%

Conical surface Flux(120deg): 1498.6 lm

%lum = 99.9%

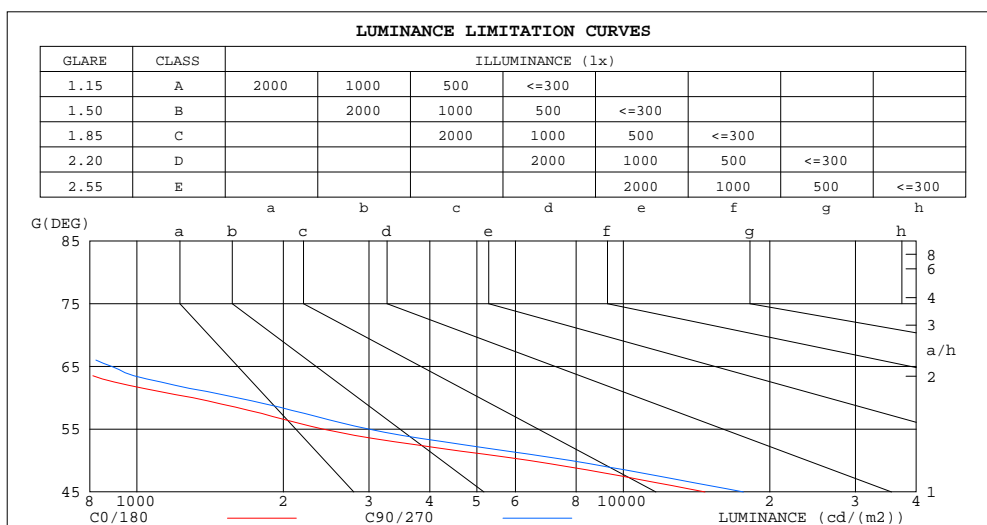
%lamp = 99.9%

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Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.8V I:0.0858A P:18.62W PF:0.9821 Freq:49.99Hz Lamp Flux:1499.74x1 lm		
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SPEC.:2700K	DIM.: 260x180x40mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	192	216
80	120	132
75	139	219
70	459	588
65	733	887
60	1303	1604
55	2411	2995
50	6396	7771
45	14714	17656

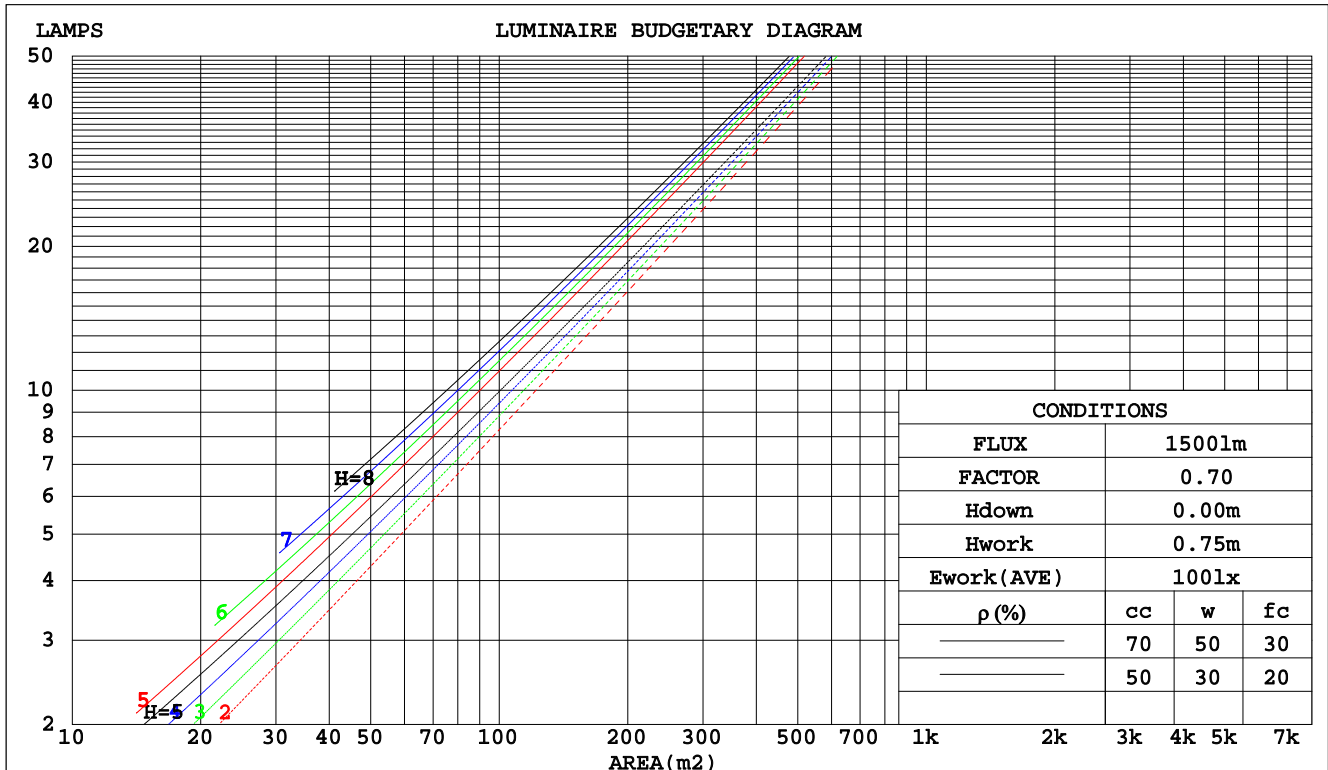
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	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	1.06	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	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.96	.93	.99	.95	.92	.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	.86	.83	.90	.86	.83	.89	.85	.82	.87	.84	.81	.86	.83	.81	.79
6.0	.87	.82	.79	.86	.82	.79	.85	.81	.78	.84	.80	.78	.82	.79	.77	.76
7.0	.83	.79	.75	.83	.78	.75	.82	.78	.75	.81	.77	.74	.80	.76	.74	.73
8.0	.80	.75	.72	.79	.75	.72	.78	.74	.71	.78	.74	.71	.77	.73	.71	.70
9.0	.77	.72	.69	.76	.72	.69	.76	.71	.68	.75	.71	.68	.74	.71	.68	.67
10.0	.74	.69	.66	.73	.69	.66	.73	.69	.66	.72	.68	.66	.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	
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	.152	.086	.027	.145	.083	.026	.133	.076	.024	.121	.070	.022	.111	.064	.021		
2.0	.143	.078	.024	.137	.075	.023	.127	.070	.022	.117	.066	.021	.108	.061	.019		
3.0	.134	.071	.021	.130	.069	.021	.121	.066	.020	.113	.062	.019	.105	.058	.018		
4.0	.127	.066	.019	.123	.064	.019	.116	.061	.018	.109	.058	.018	.102	.056	.017		
5.0	.121	.061	.018	.117	.060	.018	.111	.058	.017	.105	.055	.016	.099	.053	.016		
6.0	.115	.058	.016	.112	.057	.016	.106	.055	.016	.101	.053	.015	.096	.051	.015		
7.0	.110	.054	.015	.107	.053	.015	.102	.052	.015	.098	.050	.015	.093	.049	.014		
8.0	.105	.051	.014	.103	.051	.014	.099	.049	.014	.094	.048	.014	.091	.047	.014		
9.0	.101	.049	.014	.099	.048	.014	.095	.047	.013	.091	.046	.013	.088	.045	.013		
10.0	.097	.046	.013	.095	.046	.013	.092	.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	.093	.119	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.127	.098	.077	.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	.037	.027	.020	.012	.009	.006	
7.0	.102	.069	.045	.088	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.096	.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	.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
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:220.8V I:0.0858A P:18.62W PF:0.9821 Freq:49.99Hz Lamp Flux:1499.74x1 lm										
NAME: Breeze Double-18W-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	13.4	14.1	13.6	14.3	14.5	14.3	15.1	14.5	15.2	15.4
3H	13.2	13.9	13.5	14.1	14.3	14.2	14.9	14.4	15.0	15.2
4H	13.1	13.8	13.4	14.0	14.2	14.1	14.7	14.3	15.0	15.2
6H	13.1	13.7	13.3	13.9	14.2	14.0	14.6	14.3	14.8	15.1
8H	13.0	13.6	13.3	13.9	14.1	13.9	14.5	14.2	14.8	15.0
12H	13.0	13.6	13.3	13.8	14.1	13.9	14.5	14.2	14.7	15.0
4H 2H	13.2	13.8	13.4	14.0	14.2	14.1	14.7	14.3	15.0	15.2
3H	13.0	13.6	13.3	13.8	14.1	13.9	14.5	14.2	14.7	15.0
4H	12.9	13.4	13.2	13.7	14.0	13.8	14.3	14.1	14.6	14.9
6H	12.8	13.3	13.2	13.6	13.9	13.7	14.2	14.1	14.5	14.8
8H	12.7	13.2	13.1	13.5	13.9	13.7	14.1	14.0	14.4	14.8
12H	12.7	13.1	13.1	13.4	13.8	13.6	14.0	14.0	14.4	14.8
8H 4H	12.7	13.2	13.1	13.5	13.9	13.7	14.1	14.0	14.4	14.8
6H	12.6	13.0	13.0	13.4	13.8	13.5	13.9	14.0	14.3	14.7
8H	12.6	12.9	13.0	13.3	13.7	13.5	13.8	13.9	14.2	14.7
12H	12.5	12.8	13.0	13.2	13.7	13.4	13.7	13.9	14.1	14.6
12H 4H	12.7	13.1	13.1	13.4	13.8	13.6	14.0	14.0	14.4	14.8
6H	12.6	12.9	13.0	13.3	13.7	13.5	13.8	13.9	14.2	14.7
8H	12.5	12.8	13.0	13.2	13.7	13.4	13.7	13.9	14.1	14.6
Variations with the observer position at spacings:										
S = 1.0H	+ 3.3 / -14.7					+ 3.7 / -14.5				
1.5H	+ 5.6 / -11.8					+ 6.0 / -12.0				
2.0H	+ 6.6 / -10.0					+ 6.8 / -10.3				

CIE Pub.117, 1500 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.4$)

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γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
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UTILIZATION FACTORS TABLE

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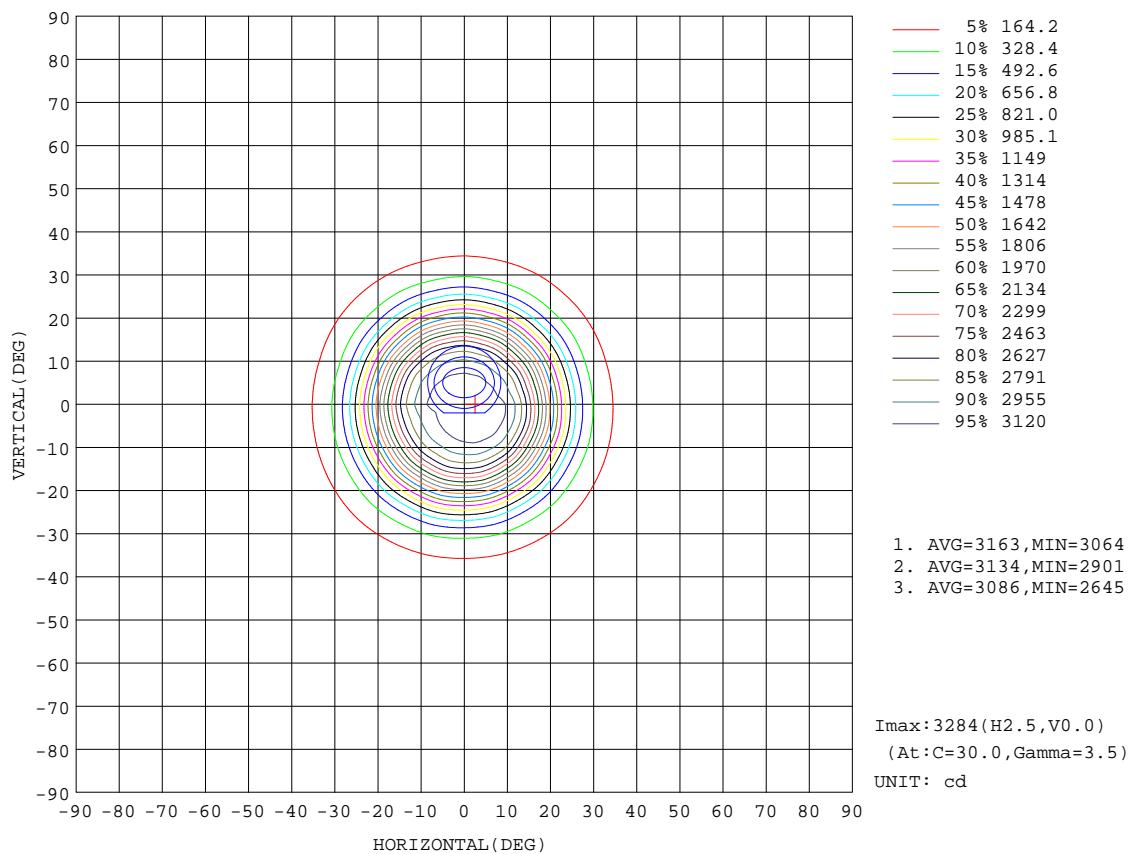
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	90	84	81	89	84	81	78
0.80	97	92	89	97	92	89	96	91	88	85
1.00	101	96	93	100	96	93	99	95	92	88
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	106	104	107	104	102	96
3.00	113	109	107	111	108	106	107	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	113	112	110	110	108	107	100
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

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ISOCANDELA DIAGRAM

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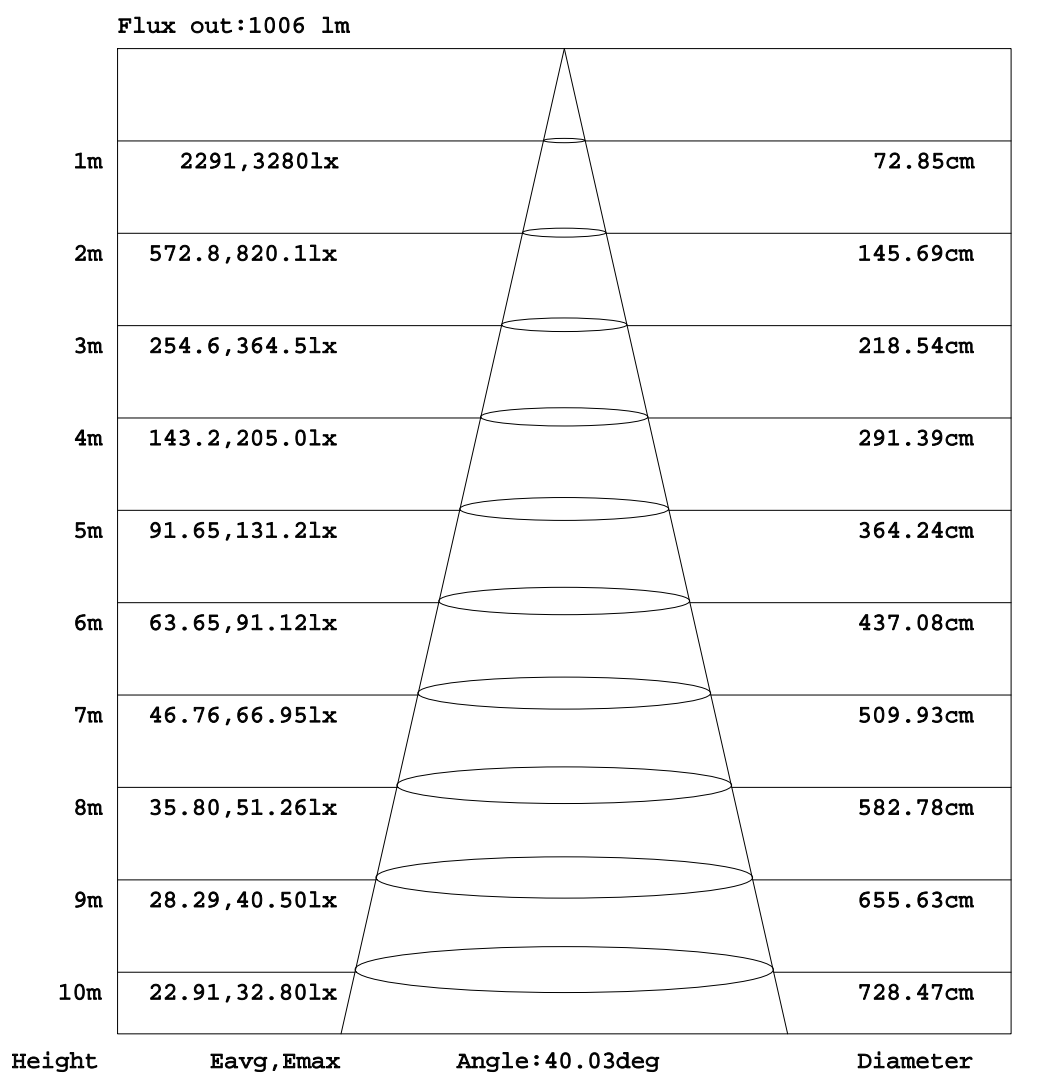


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AAI Figure

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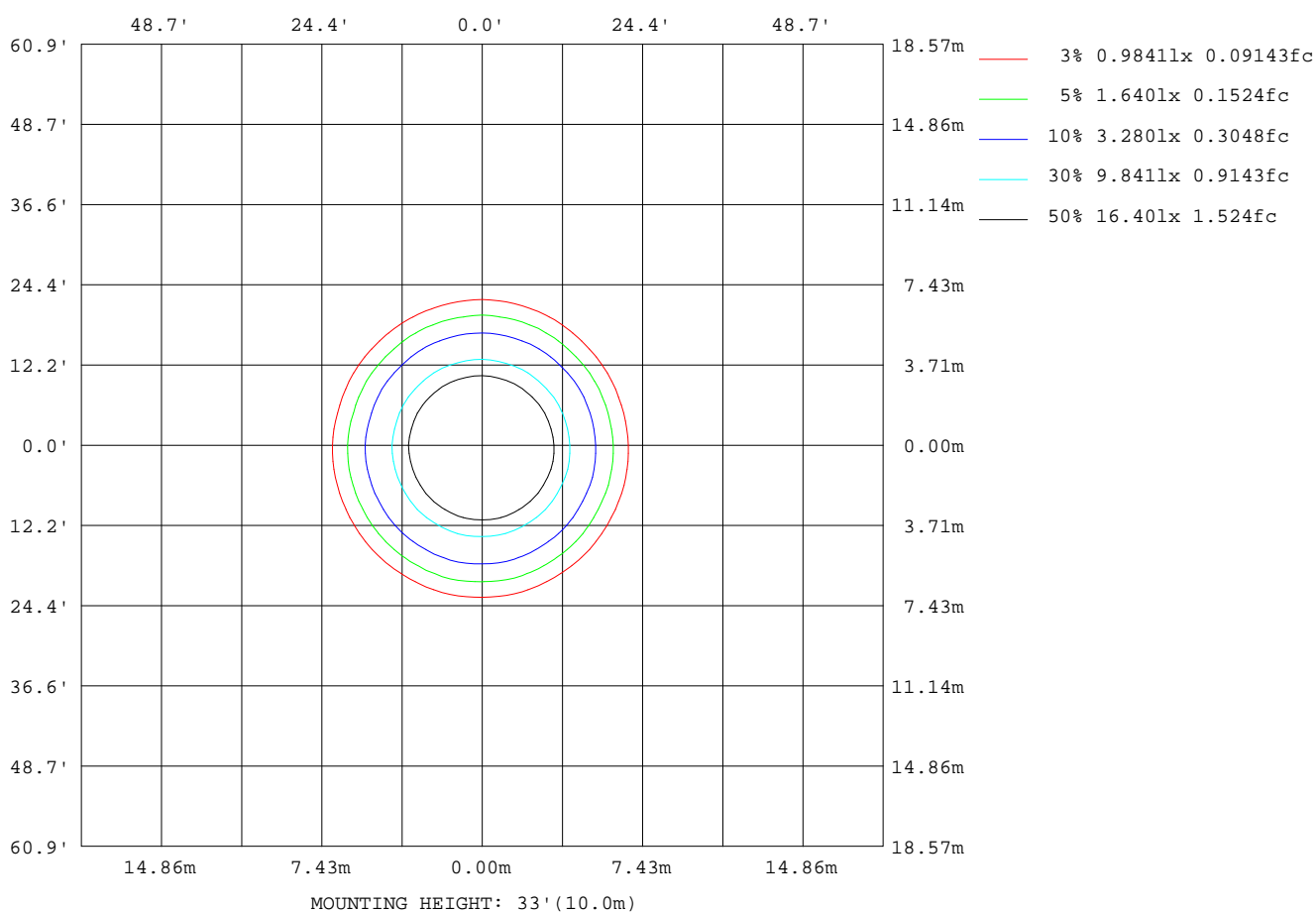
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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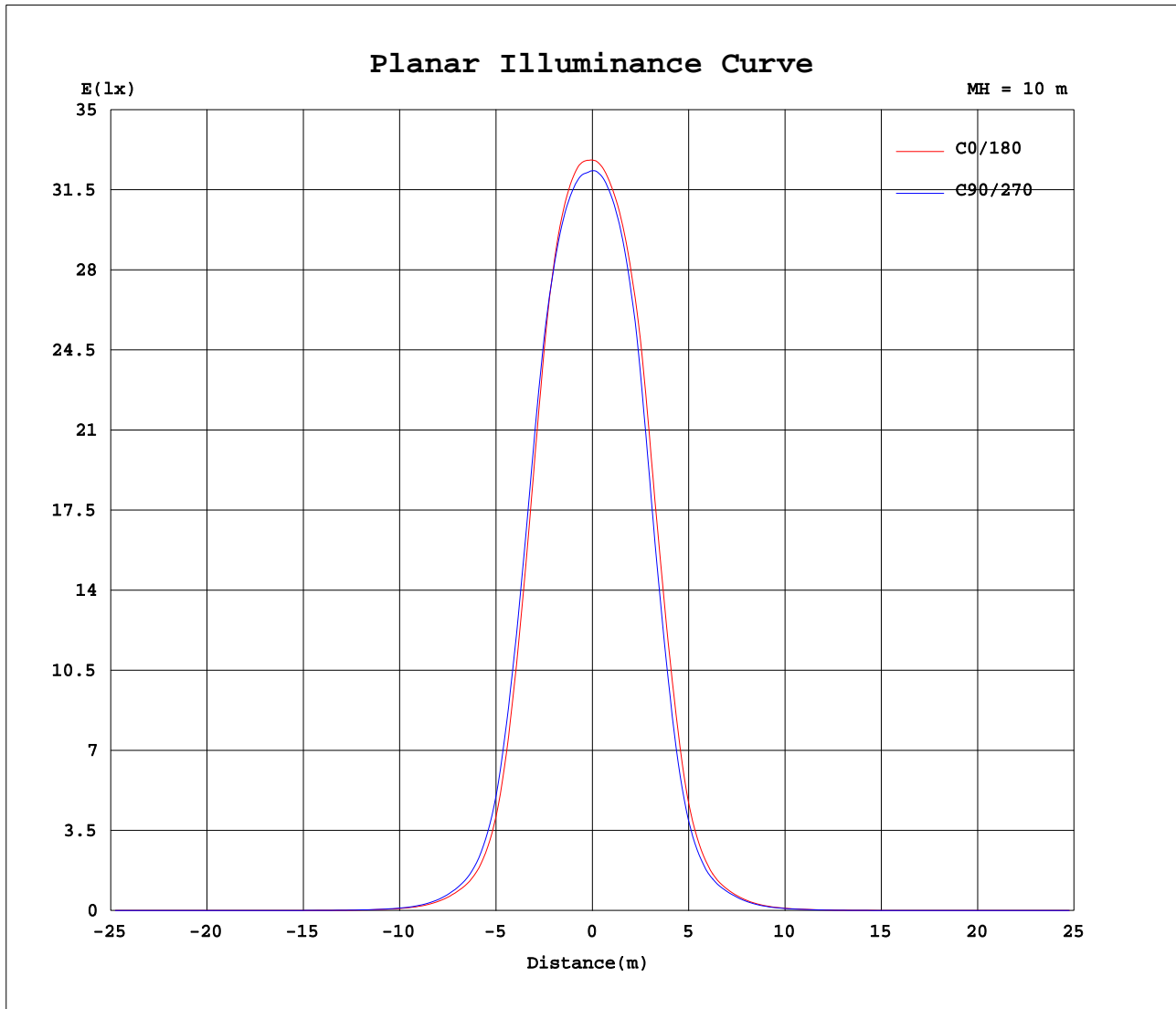
AvgL	cd/m2
L_0~180(65)av	718
L_0~180(75)av	128
L_0~180(85)av	190
L_90~270(65)av	843
L_90~270(75)av	158
L_90~270(85)av	216
L_45(65)av	796
L_45(75)av	140
L_45(85)av	192

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:

```