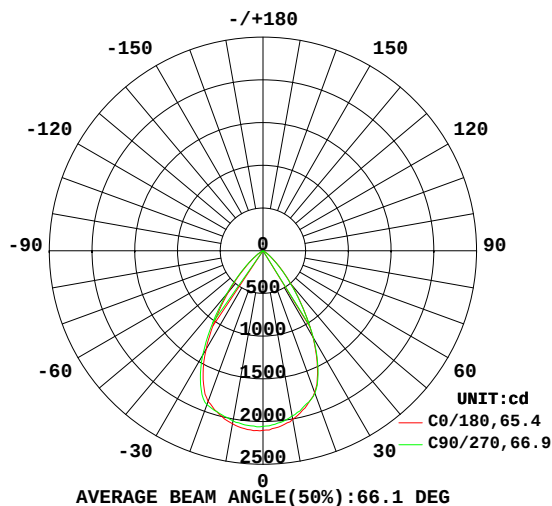


LUMINAIRE PHOTOMETRIC TEST REPORT

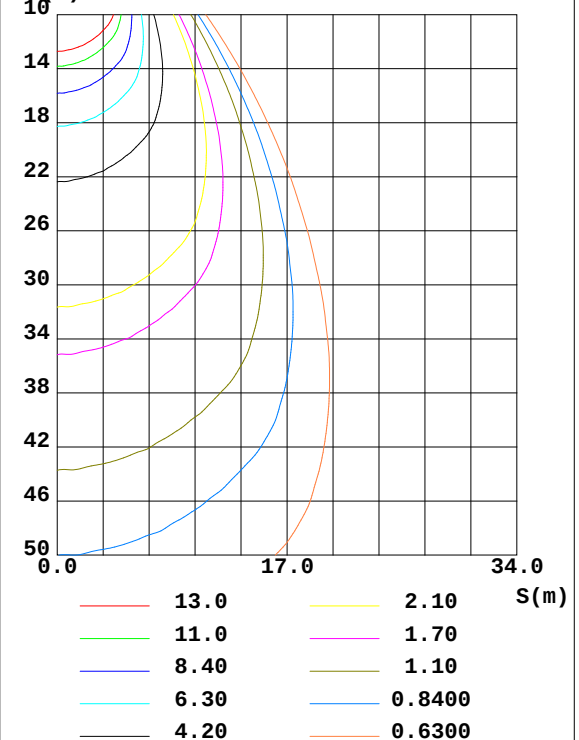
Test:U:230.59V I:0.1381A P:29.598W PF:0.9292 Freq:49.99Hz Lamp Flux:2365.82x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.93 lm/W			
MODEL	3000K	I _{max} (cd)	2109	S/MH(C0/180)	0.99
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.02
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	2365.8	η UP, DN(C0-180)	0.0, 47.8
NOMINAL FLUX(lm)	2365.82	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 52.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

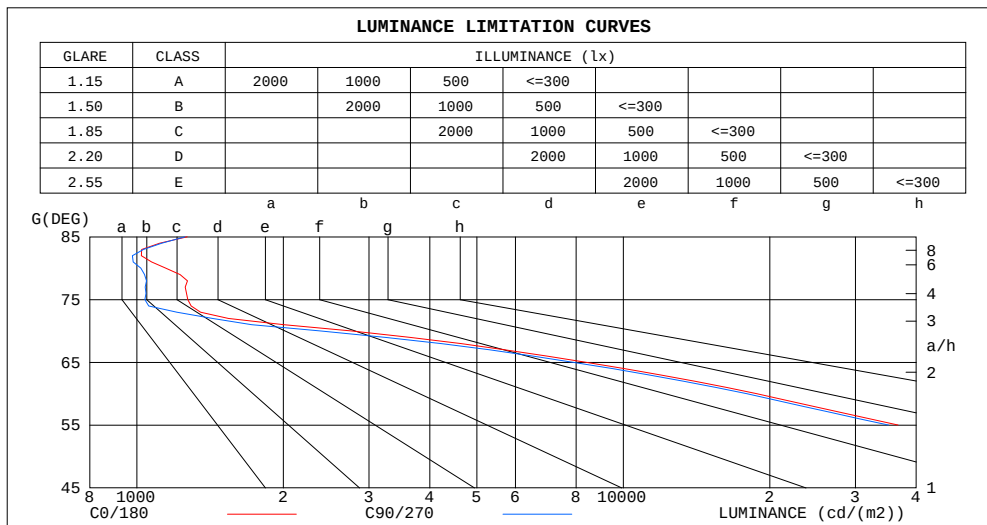
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2003	1965	1964	1980	2057	2050	2023	1961	0- 10	193.8	193.8	8.19, 8.19
20	1766	1703	1778	1813	1878	1898	1919	1773	10- 20	539.6	733.5	31, 31
30	1173	1090	1181	1276	1333	1397	1412	1219	20- 30	717.8	1451	61.3, 61.3
40	516.6	462.7	503.8	589.7	627.5	681.2	671.6	547.3	30- 40	557.7	2009	84.9, 84.9
50	150.0	131.6	143.6	177.2	187.0	209.6	205.7	160.0	40- 50	262.3	2271	96, 96
60	31.22	27.17	29.78	36.36	37.79	43.05	43.24	32.18	50- 60	77.43	2349	99.3, 99.3
70	3.135	2.362	2.706	4.180	4.467	5.581	5.010	3.119	60- 70	15.25	2364	99.9, 99.9
80	0.6614	0.5261	0.5875	0.6453	0.5776	0.7514	0.6511	0.5354	70- 80	1.446	2365	100, 100
90	0.3745	0.3745	0.3745	0.3166	0.0695	0.0733	0.0849	0.0811	80- 90	0.3482	2366	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		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.59V I:0.1381A P:29.598W PF:0.9292 Freq:49.99Hz Lamp Flux:2365.82x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1268	1255
80	1147	1019
75	1273	1039
70	2761	2383
65	8380	7878
60	18806	17939
55	36706	35082
50	70301	67309
45	124821	120093

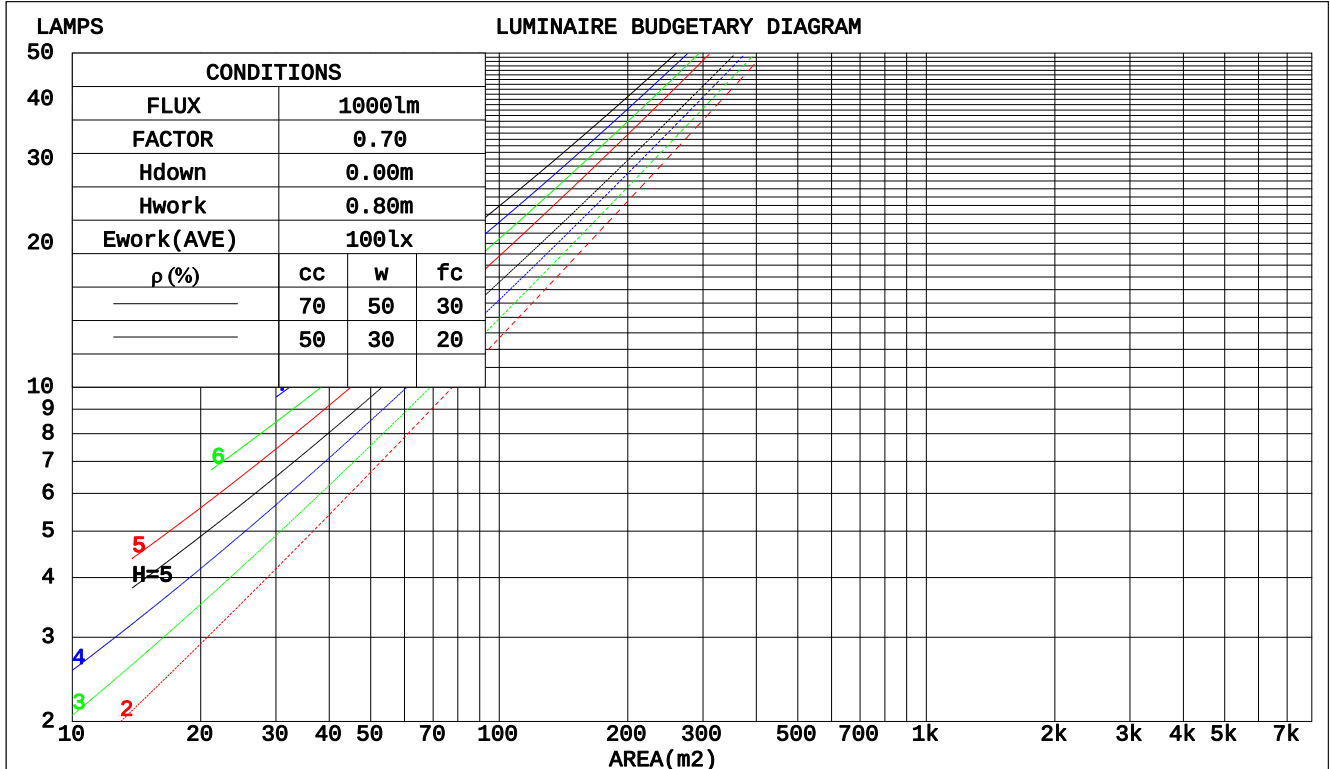
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.59V I:0.1381A P:29.598W PF:0.9292 Freq:49.99Hz Lamp Flux:2365.82x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.10	1.07	1.05	1.08	1.06	1.03	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.94	.93
2.0	1.02	.97	.94	.90	.96	.93	.97	.93	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.94	.89	.84	.93	.88	.84	.90	.86	.82	.87	.84	.81	.85	.82	.80	.78
4.0	.87	.81	.76	.86	.80	.76	.84	.79	.75	.82	.77	.74	.80	.76	.73	.72
5.0	.81	.74	.70	.80	.74	.69	.78	.73	.69	.76	.72	.68	.75	.71	.68	.66
6.0	.75	.69	.64	.74	.68	.64	.73	.67	.63	.71	.67	.63	.70	.66	.62	.61
7.0	.70	.64	.59	.69	.63	.59	.68	.63	.58	.67	.62	.58	.66	.61	.58	.56
8.0	.66	.59	.55	.65	.59	.54	.64	.58	.54	.63	.58	.54	.62	.57	.54	.52
9.0	.61	.55	.51	.61	.55	.51	.60	.54	.50	.59	.54	.50	.58	.53	.50	.49
10.0	.58	.51	.47	.57	.51	.47	.56	.51	.47	.56	.51	.47	.55	.50	.47	.45



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.59V I:0.1381A P:29.598W PF:0.9292 Freq:49.99Hz Lamp Flux:2365.82x1 lm					
NAME: BJ30-BKC30C02			TYPE:		WEIGHT:
SPEC.: black RA90 3000K+5700K			DIM.:		SERIAL No.:
MFR.:			SUR.: 65mm		Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.190	.108	.034	.183	.105	.033	.171	.098	.031	.159	.092	.029	.148	.086	.028	
2.0	.184	.101	.031	.179	.098	.030	.168	.093	.029	.158	.089	.028	.149	.084	.027	
3.0	.177	.094	.028	.172	.092	.028	.162	.088	.027	.154	.084	.026	.146	.081	.025	
4.0	.169	.088	.026	.164	.086	.025	.156	.083	.025	.149	.080	.024	.142	.077	.024	
5.0	.161	.082	.024	.157	.081	.024	.150	.078	.023	.144	.076	.023	.138	.073	.022	
6.0	.154	.077	.022	.150	.076	.022	.144	.074	.021	.138	.072	.021	.133	.070	.021	
7.0	.147	.073	.021	.144	.072	.020	.138	.070	.020	.133	.068	.020	.128	.067	.020	
8.0	.140	.068	.019	.138	.068	.019	.133	.066	.019	.128	.065	.019	.124	.063	.018	
9.0	.134	.065	.018	.132	.064	.018	.127	.063	.018	.123	.062	.018	.119	.060	.017	
10.0	.128	.062	.017	.126	.061	.017	.122	.060	.017	.118	.059	.017	.115	.058	.017	

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	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.126	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.137	.099	.070	.118	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.129	.088	.057	.111	.076	.050	.076	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.122	.079	.048	.105	.068	.042	.072	.048	.029	.042	.028	.017	.014	.009	.006	
7.0	.116	.071	.040	.100	.062	.035	.069	.043	.025	.040	.026	.015	.013	.008	.005	
8.0	.110	.065	.035	.095	.057	.030	.066	.040	.021	.038	.023	.013	.012	.008	.004	
9.0	.105	.060	.030	.091	.052	.026	.063	.037	.019	.037	.022	.011	.012	.007	.004	
10.0	.101	.056	.026	.087	.049	.023	.060	.034	.016	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.59V I:0.1381A P:29.598W PF:0.9292 Freq:49.99Hz Lamp Flux:2365.82x1 lm										
NAME: BJ30-BKC30C02					TYPE:			WEIGHT:		
SPEC.: black RA90 3000K+5700K					DIM.:			SERIAL No.:		
MFR.:					SUR.: 65mm			Shielding Angle:		
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	21.6	22.6	21.8	22.8	23.0	21.5	22.5	21.7	22.7	22.9
3H	21.4	22.4	21.7	22.6	22.8	21.3	22.3	21.6	22.5	22.7
4H	21.3	22.2	21.6	22.5	22.7	21.2	22.1	21.5	22.3	22.6
6H	21.2	22.1	21.5	22.3	22.6	21.1	22.0	21.4	22.2	22.5
8H	21.2	22.0	21.5	22.3	22.5	21.1	21.9	21.4	22.1	22.4
12H	21.1	21.9	21.5	22.2	22.5	21.0	21.8	21.4	22.1	22.4
4H 2H	21.4	22.3	21.6	22.5	22.7	21.2	22.1	21.5	22.4	22.6
3H	21.2	22.0	21.5	22.2	22.5	21.1	21.8	21.4	22.1	22.4
4H	21.1	21.8	21.4	22.1	22.4	21.0	21.7	21.3	22.0	22.3
6H	21.0	21.6	21.4	21.9	22.3	20.9	21.5	21.3	21.8	22.2
8H	21.0	21.5	21.3	21.9	22.2	20.8	21.4	21.2	21.8	22.1
12H	20.9	21.4	21.3	21.8	22.2	20.8	21.3	21.2	21.7	22.1
8H 4H	20.9	21.5	21.3	21.9	22.2	20.8	21.4	21.2	21.8	22.1
6H	20.9	21.3	21.3	21.7	22.1	20.7	21.2	21.2	21.6	22.0
8H	20.8	21.2	21.3	21.6	22.1	20.7	21.1	21.1	21.5	22.0
12H	20.8	21.1	21.2	21.5	22.0	20.6	21.0	21.1	21.4	21.9
12H 4H	20.9	21.4	21.3	21.8	22.2	20.8	21.3	21.2	21.7	22.1
6H	20.8	21.2	21.3	21.6	22.1	20.7	21.1	21.1	21.5	22.0
8H	20.7	21.1	21.2	21.5	22.0	20.6	21.0	21.1	21.4	21.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.8 / - 8.2					+ 2.8 / - 8.4				
1.5H	+ 4.1 / - 6.3					+ 4.2 / - 6.3				
2.0H	+ 5.8 / - 9.4					+ 5.8 / - 9.4				

CIE Pub.117, 2366 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.0)
Area: 0.00332 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-05-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.59V I:0.1381A P:29.598W PF:0.9292 Freq:49.99Hz Lamp Flux:2365.82x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

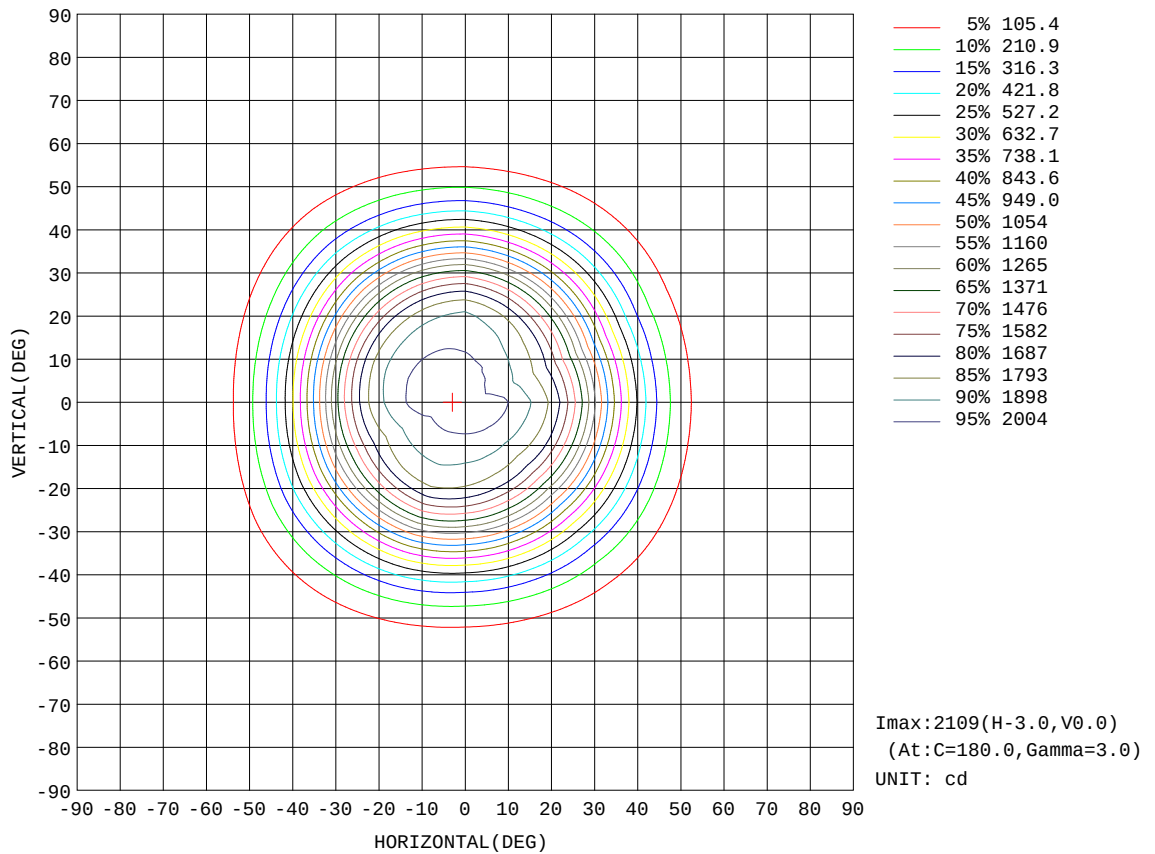
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	82	75	70	81	74	70	80	74	70	66
0.80	90	83	79	90	83	79	88	82	79	74
1.00	96	90	85	95	89	85	93	89	85	80
1.25	101	95	91	100	94	90	98	93	90	85
1.50	104	98	95	102	98	94	100	96	93	88
2.00	107	103	99	106	101	98	103	99	97	91
2.50	109	105	102	107	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.59V I:0.1381A P:29.598W PF:0.9292 Freq:49.99Hz Lamp Flux:2365.82x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



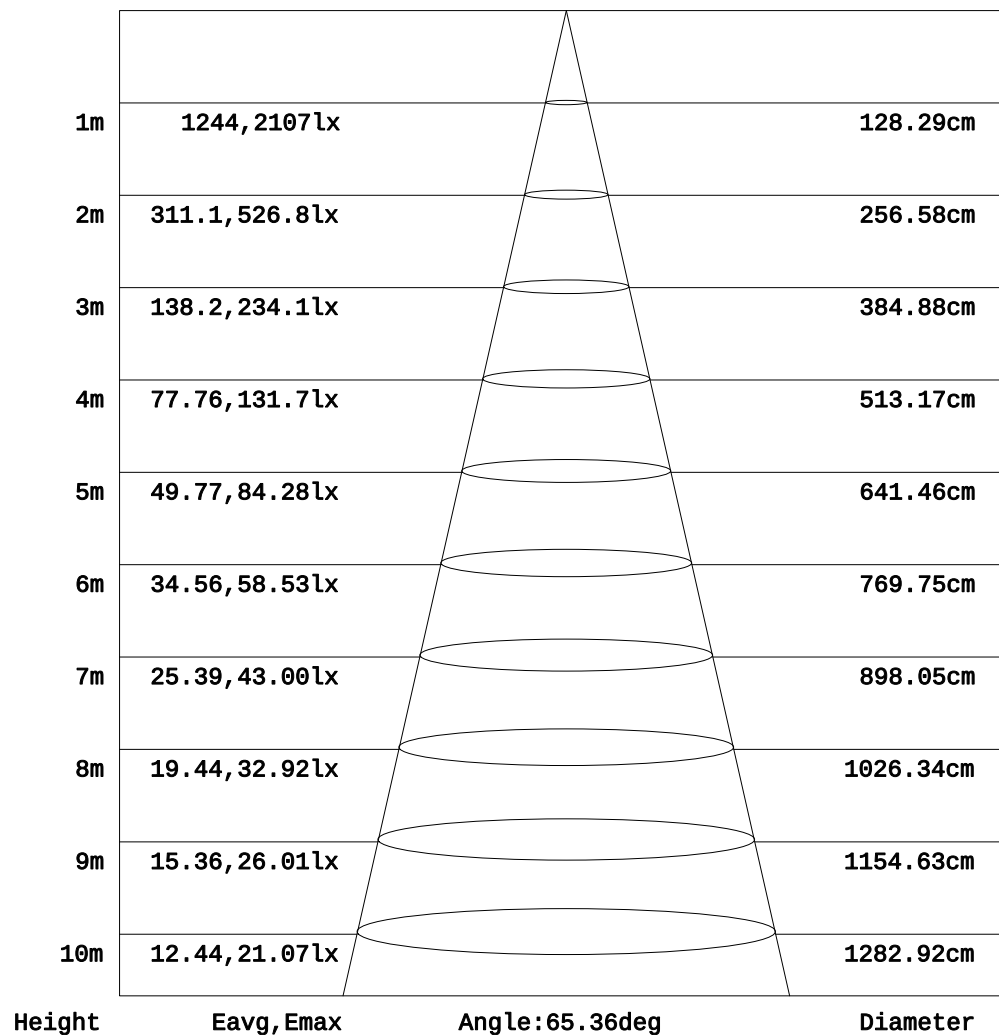
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.59V I:0.1381A P:29.598W PF:0.9292 Freq:49.99Hz Lamp Flux:2365.82x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

Flux out:1648 lm



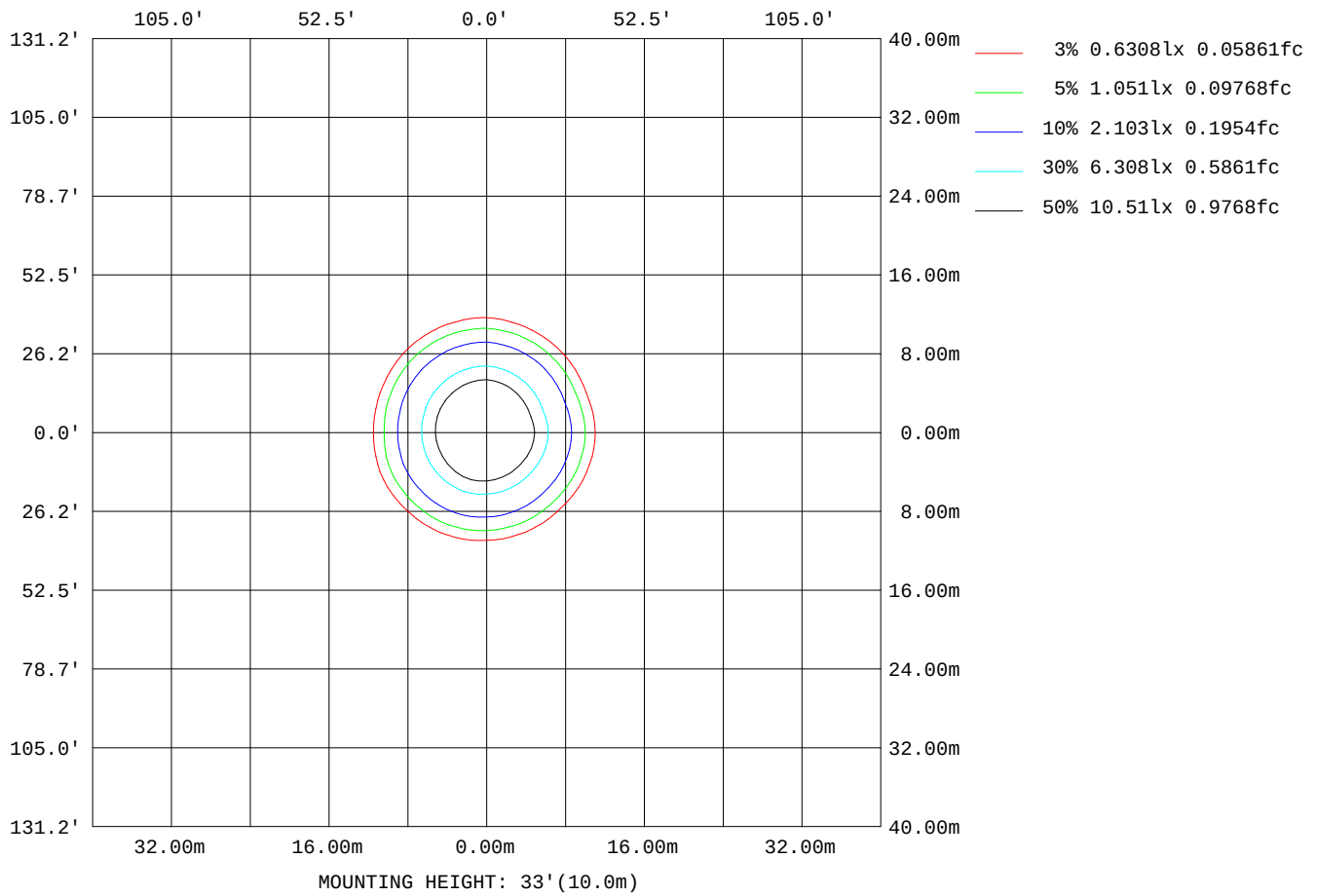
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.59V I:0.1381A P:29.598W PF:0.9292 Freq:49.99Hz Lamp Flux:2365.82x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.59V I:0.1381A P:29.598W PF:0.9292 Freq:49.99Hz Lamp Flux:2365.82x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

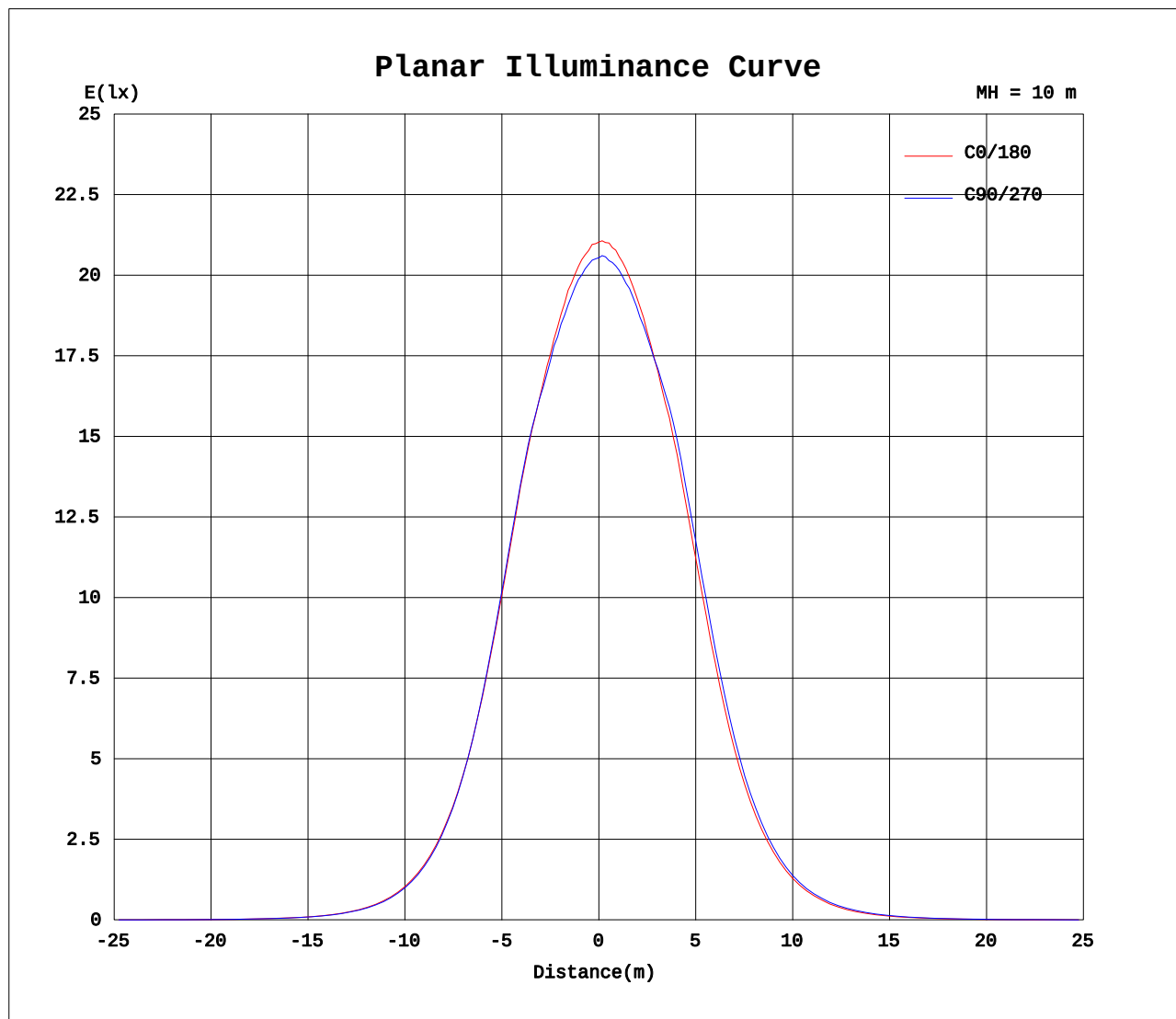
AvgL	cd/m2
L_0~180(65)av	9534
L_0~180(75)av	1211
L_0~180(85)av	913
L_90~270(65)av	9969
L_90~270(75)av	1152
L_90~270(85)av	927
L_45(65)av	9519
L_45(75)av	1191
L_45(85)av	933

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-05-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

```