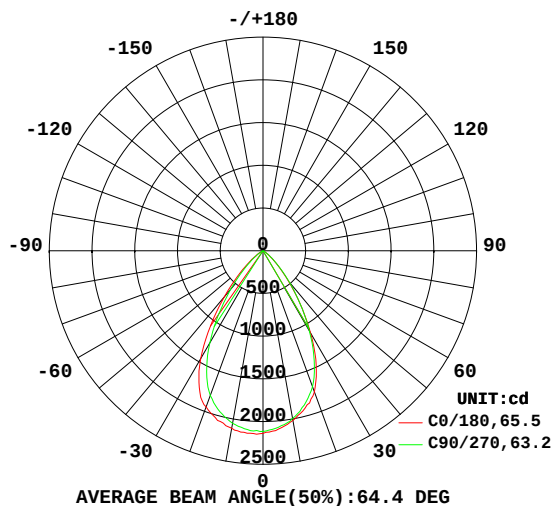


LUMINAIRE PHOTOMETRIC TEST REPORT

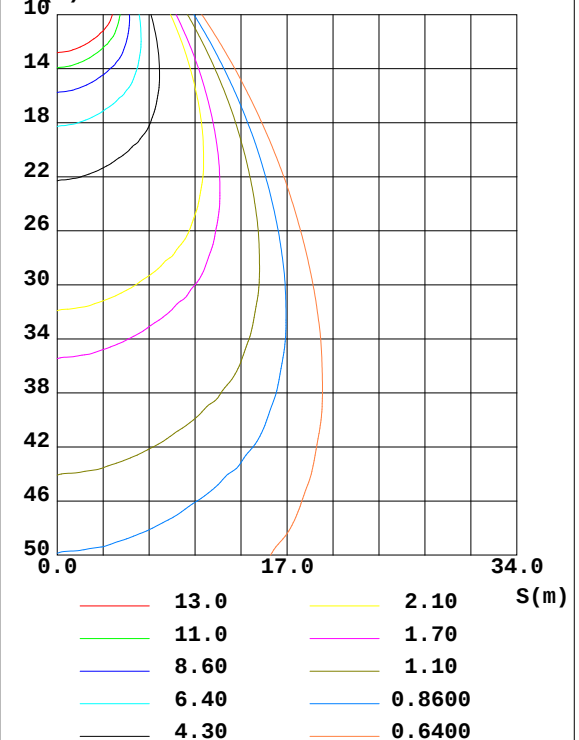
Test:U:230.56V I:0.1381A P:29.715W PF:0.9332 Freq:49.99Hz Lamp Flux:2337.34x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.66 lm/W			
MODEL	5700K	I _{max} (cd)	2148	S/MH(C0/180)	1.02
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.97
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	2337.3	η UP, DN(C0-180)	0.0, 47.7
NOMINAL FLUX(lm)	2337.34	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 52.3
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:

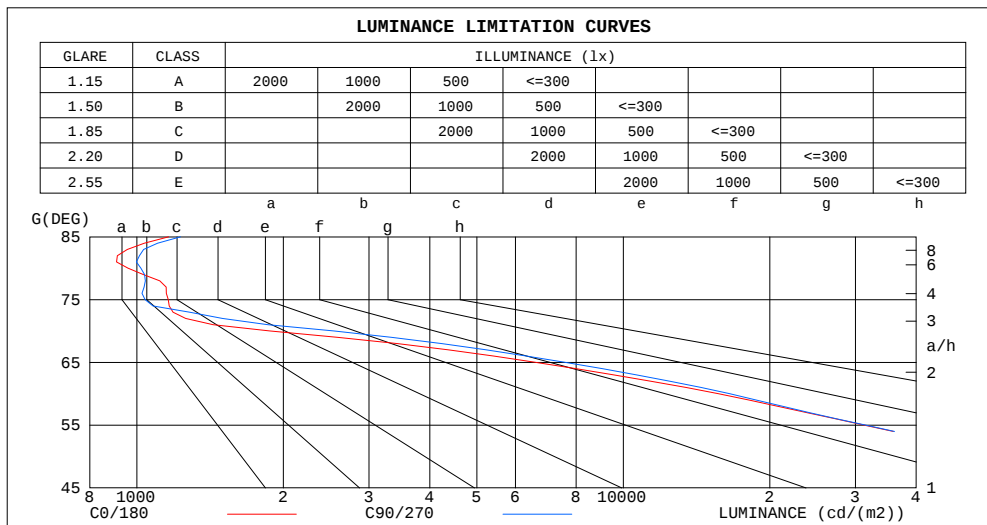
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2017	1990	1994	2038	2110	2102	2050	1994	0- 10	198.2	198.2	8.48, 8.48
20	1759	1710	1694	1800	1946	1951	1804	1740	10- 20	543.6	741.8	31.7, 31.7
30	1120	1065	1088	1266	1458	1451	1246	1129	20- 30	704.8	1447	61.9, 61.9
40	465.4	439.6	481.0	608.9	707.5	712.0	589.1	488.9	30- 40	543.8	1990	85.2, 85.2
50	130.4	120.9	132.6	184.7	224.6	224.2	173.7	133.4	40- 50	256.3	2247	96.1, 96.1
60	26.03	24.54	27.46	37.65	45.42	45.27	34.61	26.00	50- 60	74.19	2321	99.3, 99.3
70	2.129	1.990	2.883	4.879	5.874	6.117	4.071	2.312	60- 70	14.66	2336	99.9, 99.9
80	0.5531	0.4913	0.5875	0.6646	0.6552	0.7748	0.5931	0.4506	70- 80	1.469	2337	100, 100
90	0.3783	0.4169	0.3629	0.3011	0.0811	0.0888	0.0733	0.0772	80- 90	0.3470	2337	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:230.56V I:0.1381A P:29.715W PF:0.9332 Freq:49.99Hz Lamp Flux:2337.34x1 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	1162	1229
80	959	1019
75	1160	1039
70	1875	2539
65	6590	7585
60	15679	16544
55	31211	31442
50	61104	62132
45	110067	114530

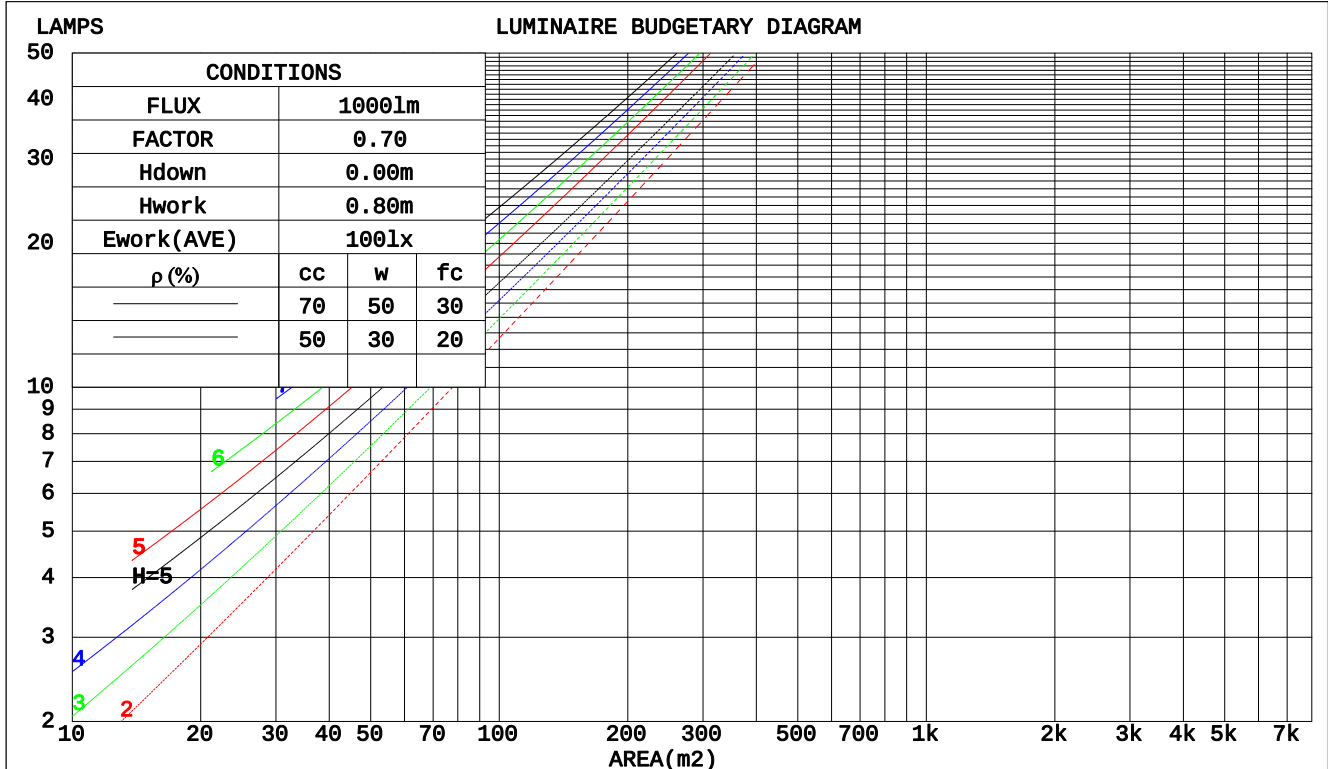
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

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:230.56V I:0.1381A P:29.715W PF:0.9332 Freq:49.99Hz Lamp Flux:2337.34x1 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	1.08	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	.88	.84	.81	.85	.82	.80	.78
4.0	.87	.81	.77	.86	.80	.76	.84	.79	.75	.82	.78	.74	.80	.76	.74	.72
5.0	.81	.75	.70	.80	.74	.70	.78	.73	.69	.76	.72	.68	.75	.71	.68	.66
6.0	.75	.69	.64	.75	.68	.64	.73	.68	.64	.72	.67	.63	.70	.66	.63	.61
7.0	.70	.64	.59	.70	.64	.59	.68	.63	.59	.67	.62	.59	.66	.62	.58	.57
8.0	.66	.59	.55	.65	.59	.55	.64	.59	.55	.63	.58	.54	.62	.57	.54	.53
9.0	.62	.55	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.58	.54	.50	.49
10.0	.58	.52	.48	.58	.52	.48	.57	.51	.47	.56	.51	.47	.55	.51	.47	.46



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:230.56V I:0.1381A P:29.715W PF:0.9332 Freq:49.99Hz Lamp Flux:2337.34x1 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	.189	.108	.034	.183	.104	.033	.170	.098	.031	.158	.091	.029	.148	.086	.028	
2.0	.183	.101	.031	.178	.098	.030	.167	.093	.029	.157	.088	.028	.148	.084	.026	
3.0	.176	.094	.028	.171	.091	.028	.162	.088	.027	.153	.084	.026	.145	.080	.025	
4.0	.168	.087	.026	.164	.086	.025	.156	.082	.025	.148	.080	.024	.141	.077	.023	
5.0	.160	.082	.024	.156	.080	.023	.149	.078	.023	.143	.075	.022	.137	.073	.022	
6.0	.153	.077	.022	.150	.076	.022	.143	.073	.021	.138	.071	.021	.132	.070	.021	
7.0	.146	.072	.020	.143	.071	.020	.137	.069	.020	.132	.068	.020	.127	.066	.019	
8.0	.139	.068	.019	.137	.067	.019	.132	.066	.019	.127	.064	.019	.123	.063	.018	
9.0	.133	.064	.018	.131	.064	.018	.127	.063	.018	.122	.061	.018	.118	.060	.017	
10.0	.128	.061	.017	.126	.061	.017	.122	.060	.017	.118	.058	.017	.114	.057	.016	

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	.125	.098	.076	.086	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.137	.099	.070	.117	.086	.061	.081	.060	.043	.047	.035	.025	.015	.011	.008	
5.0	.129	.088	.058	.111	.076	.050	.076	.053	.035	.044	.031	.021	.014	.010	.007	
6.0	.122	.079	.048	.105	.068	.042	.072	.048	.030	.042	.028	.018	.014	.009	.006	
7.0	.115	.071	.040	.099	.062	.035	.069	.043	.025	.040	.026	.015	.013	.008	.005	
8.0	.110	.065	.035	.095	.057	.030	.065	.040	.021	.038	.023	.013	.012	.008	.004	
9.0	.105	.060	.030	.090	.052	.026	.063	.037	.019	.036	.022	.011	.012	.007	.004	
10.0	.100	.056	.026	.086	.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:230.56V I:0.1381A P:29.715W PF:0.9332 Freq:49.99Hz Lamp Flux:2337.34x1 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	21.1	22.2	21.4	22.3	22.5	21.1	22.2	21.4	22.4	22.5	
	3H	21.0	21.9	21.2	22.1	22.3	21.0	21.9	21.2	22.1	22.3
	4H	20.9	21.8	21.1	22.0	22.2	20.9	21.8	21.2	22.0	22.2
	6H	20.8	21.6	21.1	21.9	22.1	20.8	21.6	21.1	21.9	22.1
	8H	20.7	21.5	21.0	21.8	22.1	20.7	21.6	21.1	21.8	22.1
	12H	20.7	21.5	21.0	21.7	22.0	20.7	21.5	21.0	21.7	22.0
4H	2H	20.9	21.8	21.2	22.0	22.2	20.9	21.8	21.2	22.0	22.3
	3H	20.7	21.5	21.0	21.8	22.0	20.7	21.5	21.1	21.8	22.1
	4H	20.6	21.3	21.0	21.6	21.9	20.6	21.3	21.0	21.6	22.0
	6H	20.5	21.1	20.9	21.5	21.8	20.5	21.2	20.9	21.5	21.8
	8H	20.5	21.0	20.9	21.4	21.8	20.5	21.1	20.9	21.4	21.8
	12H	20.4	20.9	20.8	21.3	21.7	20.5	21.0	20.9	21.3	21.7
8H	4H	20.5	21.0	20.9	21.4	21.8	20.5	21.1	20.9	21.4	21.8
	6H	20.4	20.8	20.8	21.2	21.7	20.4	20.9	20.8	21.3	21.7
	8H	20.3	20.7	20.8	21.2	21.6	20.4	20.8	20.8	21.2	21.6
	12H	20.3	20.6	20.8	21.1	21.5	20.3	20.6	20.8	21.1	21.6
12H	4H	20.4	20.9	20.8	21.3	21.7	20.5	21.0	20.9	21.3	21.7
	6H	20.3	20.7	20.8	21.2	21.6	20.4	20.8	20.8	21.2	21.6
	8H	20.3	20.6	20.8	21.1	21.5	20.3	20.6	20.8	21.1	21.6
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 2.8 / - 8.7					+ 2.8 / - 8.7					
1.5H	+ 4.2 / - 6.5					+ 4.2 / - 6.6					
2.0H	+ 5.7 / - 9.7					+ 5.9 / - 9.5					

CIE Pub.117, 2337 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.9)
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:230.56V I:0.1381A P:29.715W PF:0.9332 Freq:49.99Hz Lamp Flux:2337.34x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

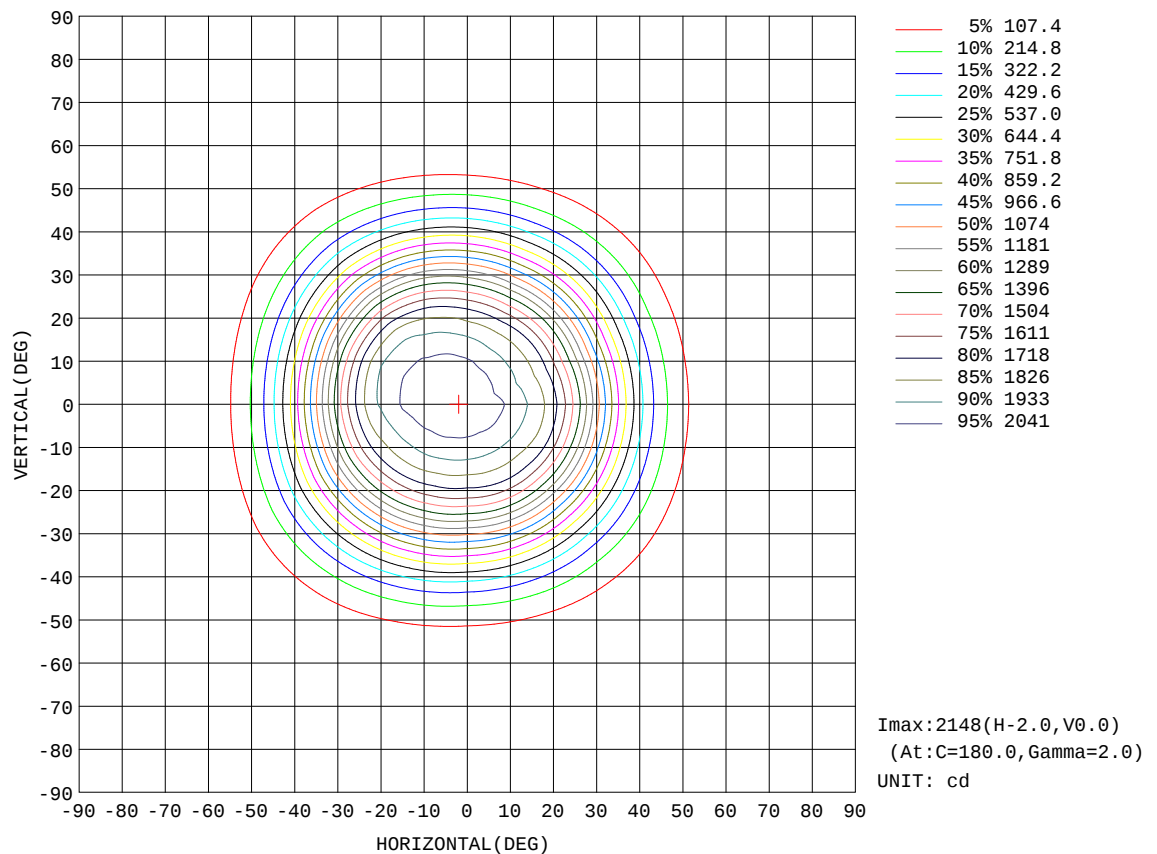
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	82	75	70	81	75	70	81	74	70	66
0.80	90	84	79	90	83	79	88	83	79	75
1.00	96	90	86	95	89	85	93	89	85	80
1.25	101	95	91	100	94	91	98	93	90	85
1.50	104	99	95	103	98	94	100	96	93	88
2.00	107	103	99	106	102	98	103	100	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:230.56V I:0.1381A P:29.715W PF:0.9332 Freq:49.99Hz Lamp Flux:2337.34x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

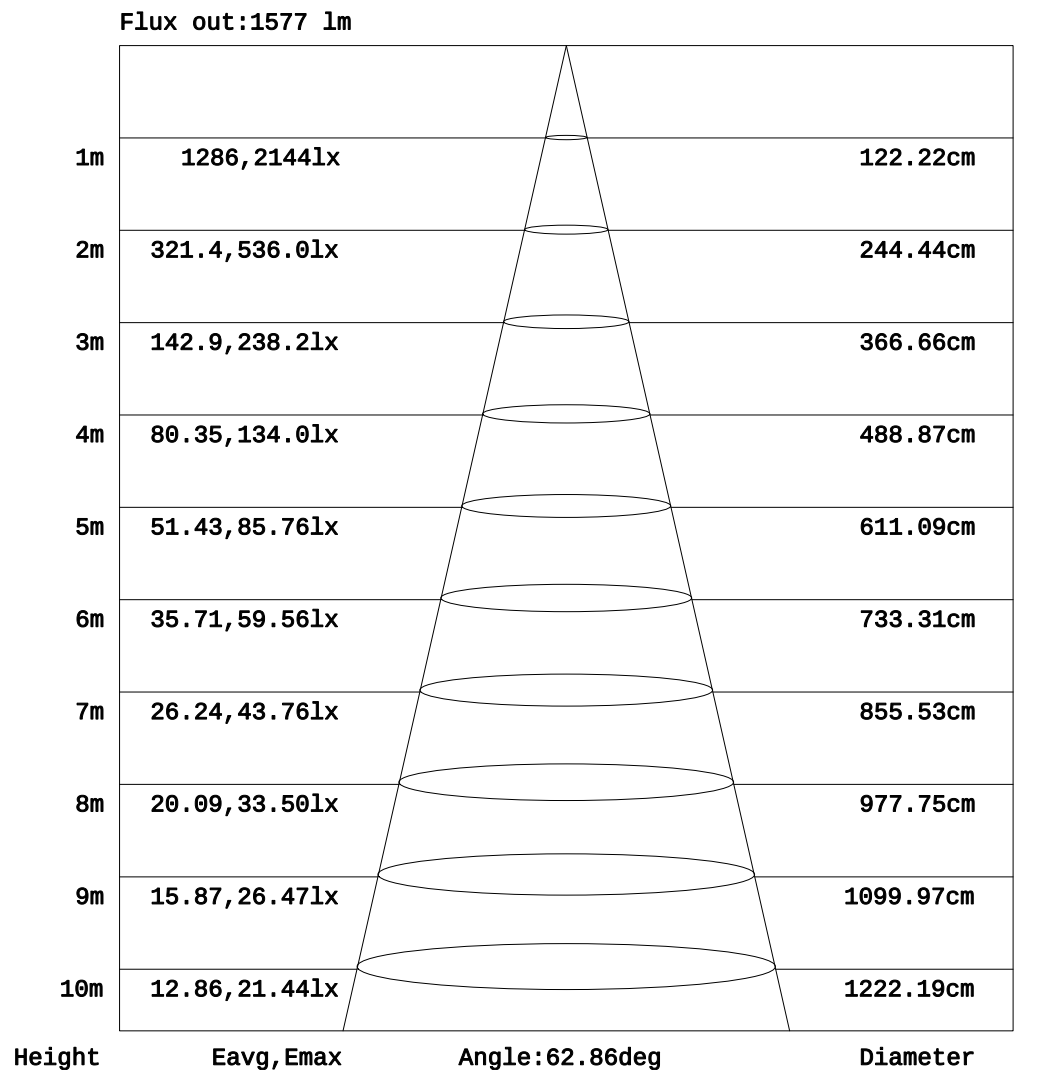


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

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:230.56V I:0.1381A P:29.715W PF:0.9332 Freq:49.99Hz Lamp Flux:2337.34x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



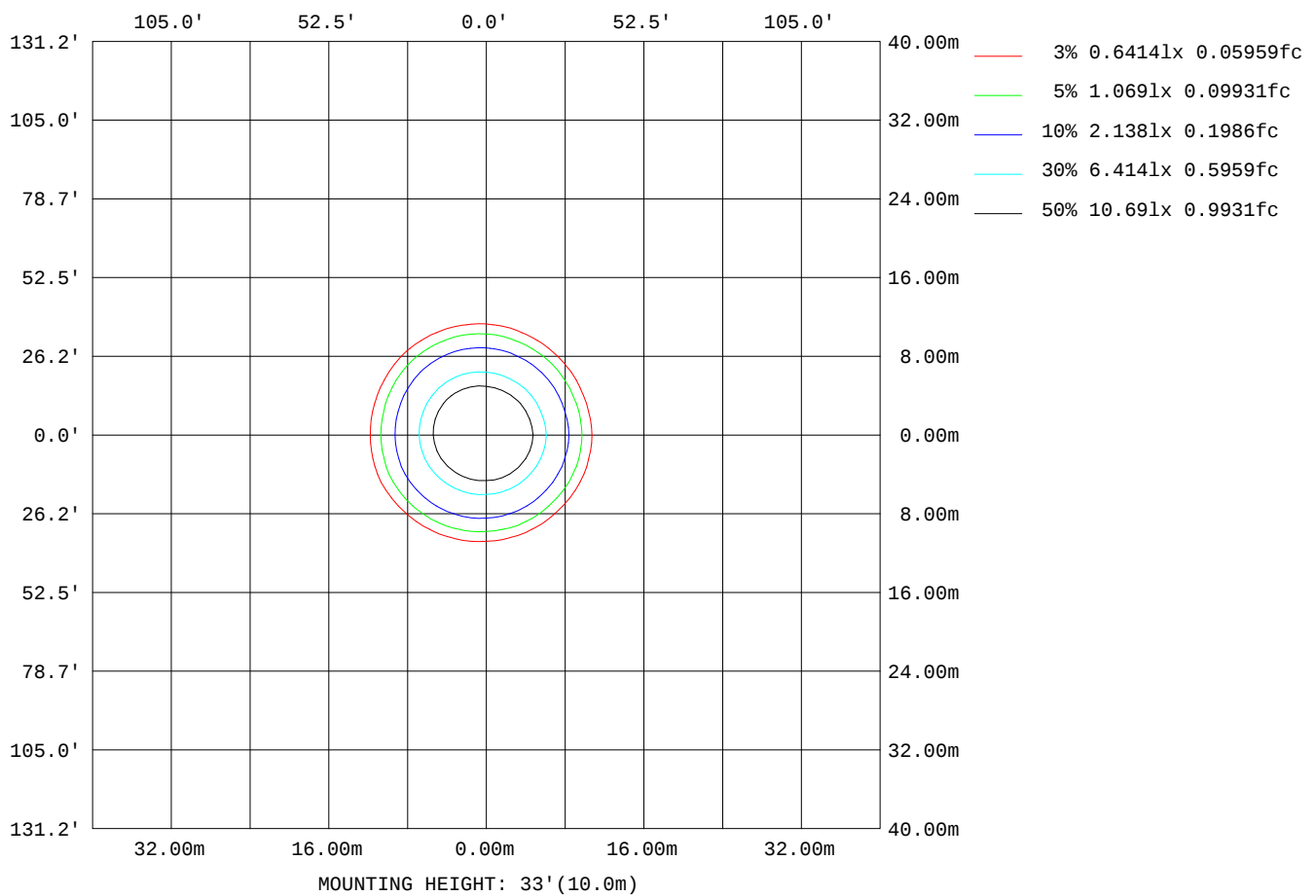
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.56V I:0.1381A P:29.715W PF:0.9332 Freq:49.99Hz Lamp Flux:2337.34x1 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:230.56V I:0.1381A P:29.715W PF:0.9332 Freq:49.99Hz Lamp Flux:2337.34x1 lm		
NAME: BJ30-BKC30C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

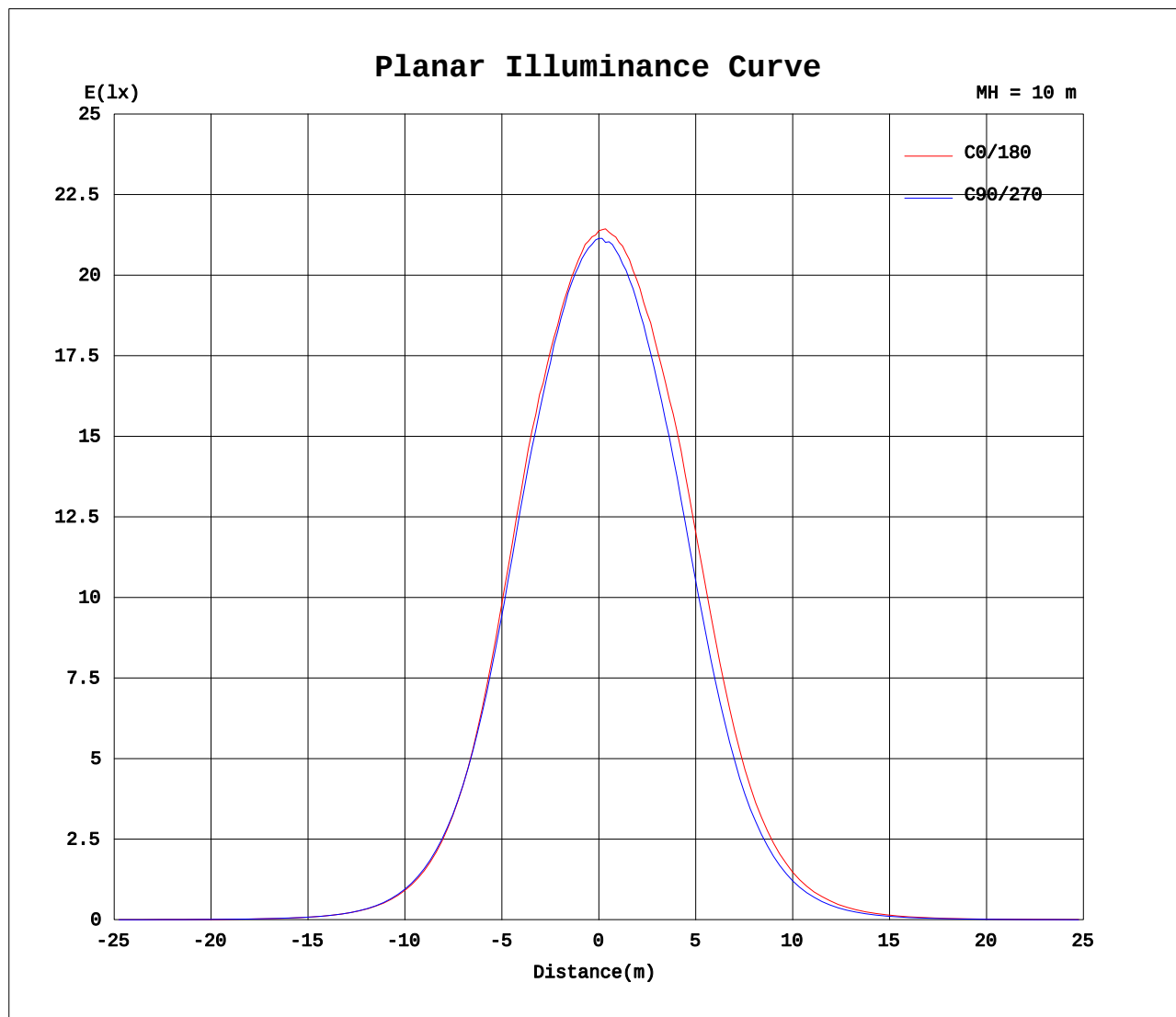
AvgL	cd/m2
L_0~180(65)av	9835
L_0~180(75)av	1244
L_0~180(85)av	907
L_90~270(65)av	8677
L_90~270(75)av	1108
L_90~270(85)av	894
L_45(65)av	9301
L_45(75)av	1210
L_45(85)av	934

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:

```