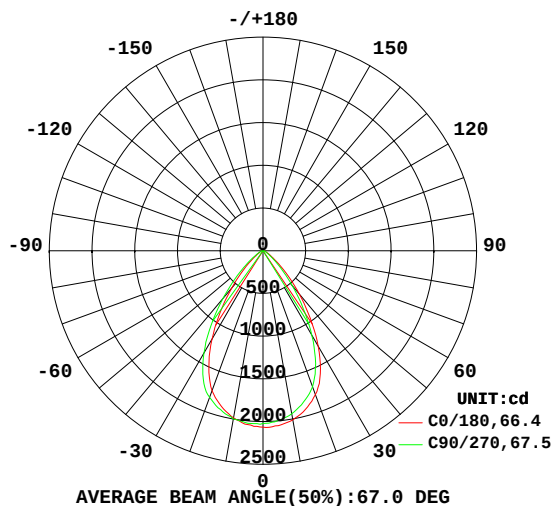


LUMINAIRE PHOTOMETRIC TEST REPORT

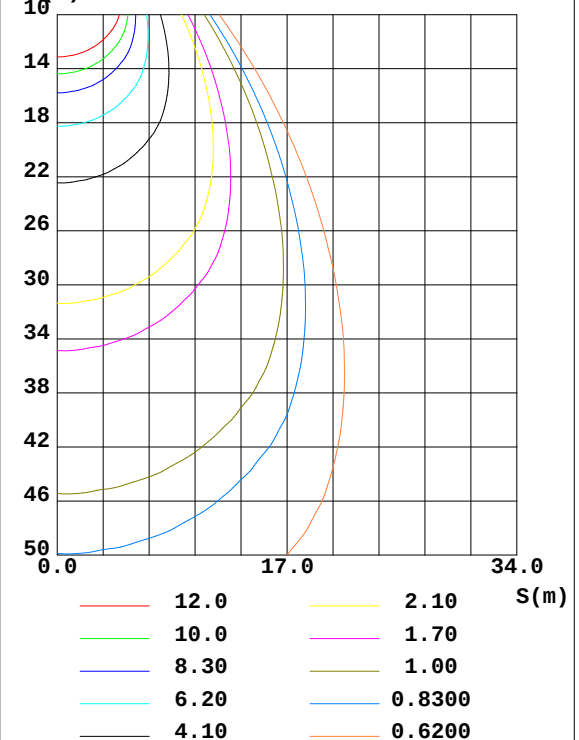
Test:U:230.55V I:0.1352A P:29.113W PF:0.9340 Freq:49.99Hz Lamp Flux:2499.58x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.86 lm/W			
MODEL	3000K	I _{max} (cd)	2069	S/MH(C0/180)	0.96
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.04
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	2499.6	η UP, DN(C0-180)	0.0, 47.9
NOMINAL FLUX(lm)	2499.58	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 52.1
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:

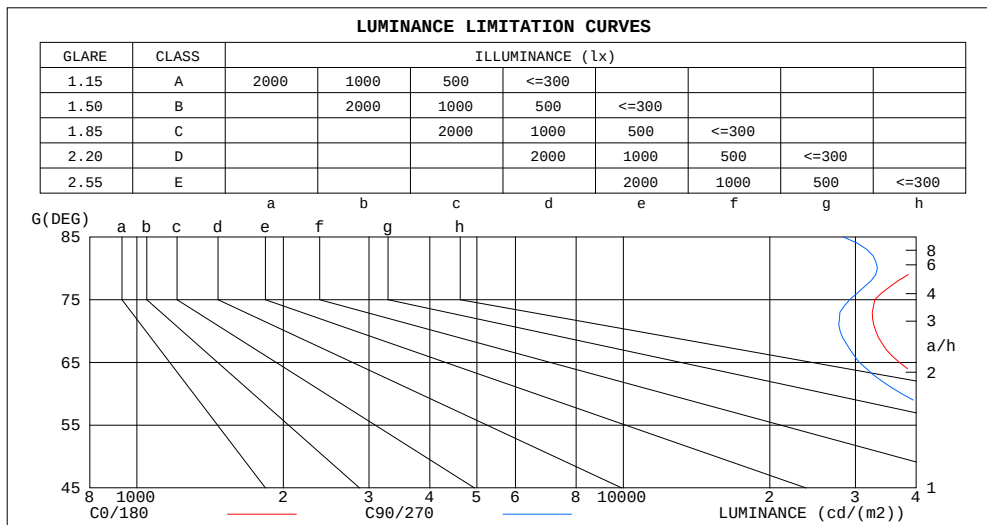
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2011	1966	1939	1929	1986	1994	2000	1979	0- 10	191.0	191.0	7.64, 7.64
20	1793	1714	1696	1718	1744	1784	1827	1808	10- 20	528.3	719.2	28.8, 28.8
30	1293	1177	1146	1176	1192	1293	1385	1364	20- 30	701.6	1421	56.8, 56.8
40	663.6	570.4	533.2	549.4	570.2	651.6	731.4	708.9	30- 40	574.5	1995	79.8, 79.8
50	239.8	195.4	176.2	181.0	189.4	228.8	268.5	260.1	40- 50	300.4	2296	91.8, 91.8
60	78.16	67.20	61.93	61.85	64.58	73.64	84.60	82.75	50- 60	113.7	2409	96.4, 96.4
70	37.52	34.15	31.69	31.32	32.65	35.19	37.72	37.47	60- 70	49.00	2458	98.4, 98.4
80	23.53	21.28	19.19	19.10	20.00	22.21	23.47	23.19	70- 80	28.76	2487	99.5, 99.5
90	2.104	0.5173	0.5636	0.5598	0.2007	0.2278	2.656	2.397	80- 90	12.36	2500	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:230.55V I:0.1352A P:29.113W PF:0.9340 Freq:49.99Hz Lamp Flux:2499.58x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	49727	28288
80	40816	33279
75	32882	29206
70	33042	27905
65	36915	30552
60	47083	37307
55	69411	51849
50	112362	82575
45	177168	134906

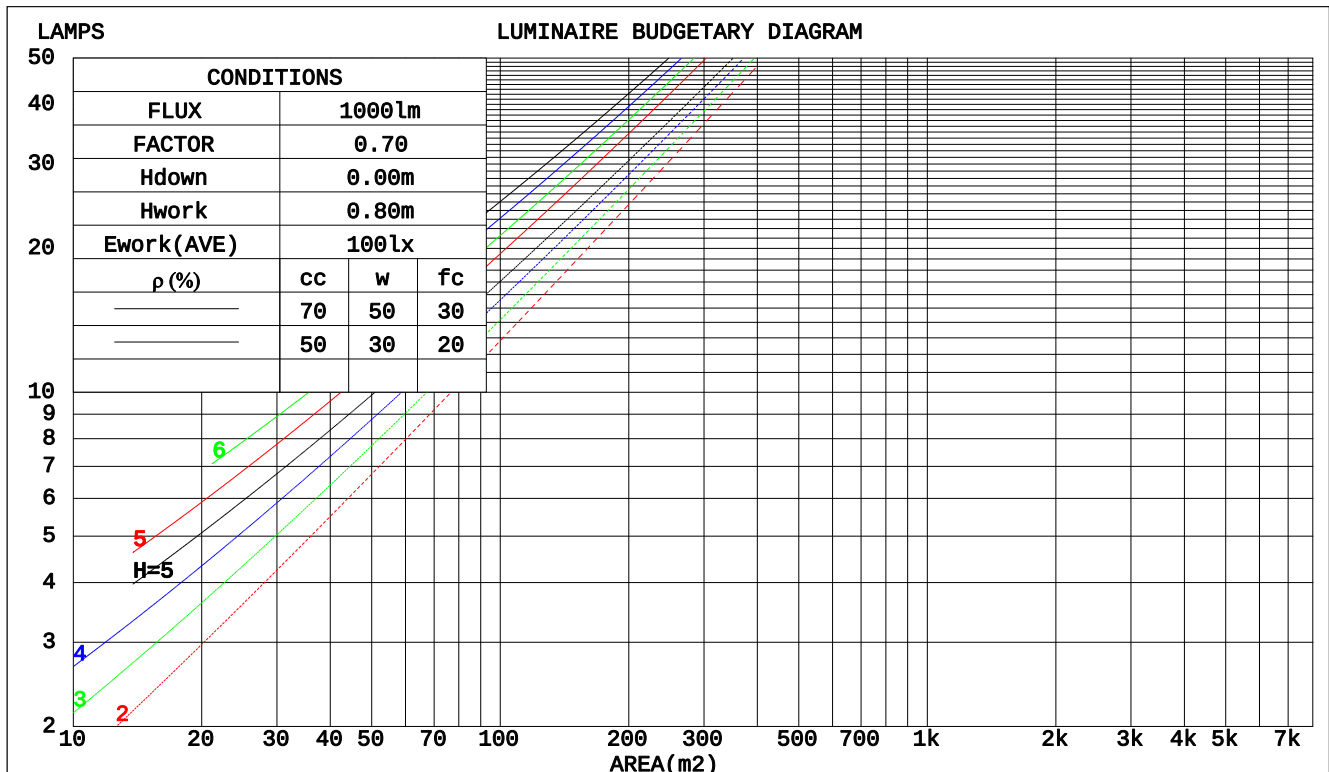
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

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:230.55V I:0.1352A P:29.113W PF:0.9340 Freq:49.99Hz Lamp Flux:2499.58x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white 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						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	1.09	1.06	1.04	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.96	.94	.93	.91
2.0	1.00	.95	.91	.98	.94	.90	.95	.91	.88	.92	.89	.86	.89	.87	.85	.83
3.0	.92	.86	.82	.91	.85	.81	.88	.83	.80	.85	.82	.78	.83	.80	.77	.75
4.0	.85	.78	.74	.84	.78	.73	.81	.76	.72	.79	.75	.71	.77	.74	.70	.69
5.0	.78	.72	.67	.77	.71	.66	.76	.70	.66	.74	.69	.65	.72	.68	.65	.63
6.0	.73	.66	.61	.72	.65	.61	.70	.65	.60	.69	.64	.60	.67	.63	.59	.58
7.0	.68	.61	.56	.67	.60	.56	.66	.60	.56	.64	.59	.55	.63	.58	.55	.53
8.0	.63	.56	.52	.62	.56	.52	.61	.56	.51	.60	.55	.51	.59	.54	.51	.49
9.0	.59	.52	.48	.59	.52	.48	.58	.52	.48	.57	.51	.48	.56	.51	.47	.46
10.0	.55	.49	.45	.55	.49	.45	.54	.48	.44	.53	.48	.44	.52	.48	.44	.43



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:230.55V I:0.1352A P:29.113W PF:0.9340 Freq:49.99Hz Lamp Flux:2499.58x1 lm					
NAME: BJ30-WHC30C02			TYPE:		WEIGHT:
SPEC.: white 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	.208	.118	.038	.201	.115	.036	.189	.108	.035	.177	.102	.033	.166	.096	.031		
2.0	.199	.109	.034	.193	.107	.033	.183	.102	.032	.173	.097	.030	.163	.092	.029		
3.0	.189	.101	.030	.184	.099	.030	.175	.095	.029	.166	.091	.028	.158	.088	.027		
4.0	.179	.093	.027	.175	.092	.027	.167	.088	.026	.159	.085	.026	.152	.083	.025		
5.0	.170	.087	.025	.166	.085	.025	.159	.083	.024	.152	.080	.024	.146	.078	.023		
6.0	.161	.081	.023	.158	.080	.023	.152	.078	.023	.146	.076	.022	.140	.074	.022		
7.0	.153	.076	.021	.150	.075	.021	.145	.073	.021	.139	.071	.021	.134	.070	.021		
8.0	.146	.071	.020	.143	.071	.020	.138	.069	.020	.133	.068	.020	.129	.066	.019		
9.0	.139	.067	.019	.137	.067	.019	.132	.065	.019	.128	.064	.018	.124	.063	.018		
10.0	.133	.064	.018	.131	.063	.018	.127	.062	.017	.123	.061	.017	.119	.060	.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	.173	.157	.142	.148	.135	.123	.101	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.160	.132	.109	.137	.114	.094	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.149	.114	.086	.128	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.140	.099	.069	.120	.086	.060	.082	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.132	.088	.056	.113	.076	.049	.078	.053	.034	.045	.031	.020	.015	.010	.007	
6.0	.125	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.118	.072	.039	.102	.062	.034	.070	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.113	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.107	.061	.029	.093	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.103	.056	.026	.089	.049	.022	.061	.035	.016	.036	.020	.010	.012	.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:230.55V I:0.1352A P:29.113W PF:0.9340 Freq:49.99Hz Lamp Flux:2499.58x1 lm											
NAME: BJ30-WHC30C02					TYPE:			WEIGHT:			
SPEC.: white 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	2H	23.2	24.4	23.5	24.5	24.7	22.3	23.4	22.6	23.6	23.8
	3H	23.3	24.3	23.6	24.5	24.8	22.4	23.4	22.7	23.6	23.8
	4H	23.4	24.3	23.7	24.6	24.8	22.5	23.4	22.8	23.7	23.9
	6H	23.5	24.4	23.8	24.6	24.9	22.6	23.5	22.9	23.7	24.0
	8H	23.6	24.4	23.9	24.7	25.0	22.6	23.5	23.0	23.8	24.0
	12H	23.7	24.5	24.0	24.8	25.0	22.7	23.5	23.0	23.8	24.0
4H	2H	23.1	24.1	23.4	24.3	24.5	22.2	23.2	22.5	23.4	23.7
	3H	23.3	24.1	23.6	24.4	24.7	22.4	23.2	22.8	23.5	23.8
	4H	23.4	24.2	23.8	24.5	24.8	22.6	23.3	22.9	23.6	23.9
	6H	23.7	24.3	24.0	24.7	25.0	22.8	23.5	23.2	23.8	24.2
	8H	23.8	24.4	24.2	24.8	25.2	22.9	23.5	23.3	23.9	24.3
	12H	24.0	24.5	24.4	24.9	25.3	23.0	23.6	23.4	23.9	24.3
8H	4H	23.4	24.0	23.8	24.4	24.8	22.6	23.2	23.0	23.6	23.9
	6H	23.8	24.3	24.2	24.7	25.1	23.0	23.5	23.4	23.9	24.3
	8H	24.0	24.5	24.5	24.9	25.3	23.2	23.6	23.6	24.0	24.5
	12H	24.3	24.7	24.7	25.1	25.6	23.3	23.7	23.8	24.1	24.6
12H	4H	23.4	24.0	23.8	24.3	24.7	22.6	23.2	23.0	23.5	23.9
	6H	23.8	24.2	24.2	24.7	25.1	23.0	23.5	23.5	23.9	24.3
	8H	24.1	24.5	24.5	24.9	25.4	23.2	23.6	23.7	24.1	24.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 1.6 / - 2.2					+ 1.4 / - 2.3					
1.5H	+ 2.6 / - 2.3					+ 2.4 / - 2.1					
2.0H	+ 3.5 / - 1.8					+ 2.9 / - 1.6					

CIE Pub.117, 2500 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.2$)
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:230.55V I:0.1352A P:29.113W PF:0.9340 Freq:49.99Hz Lamp Flux:2499.58x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

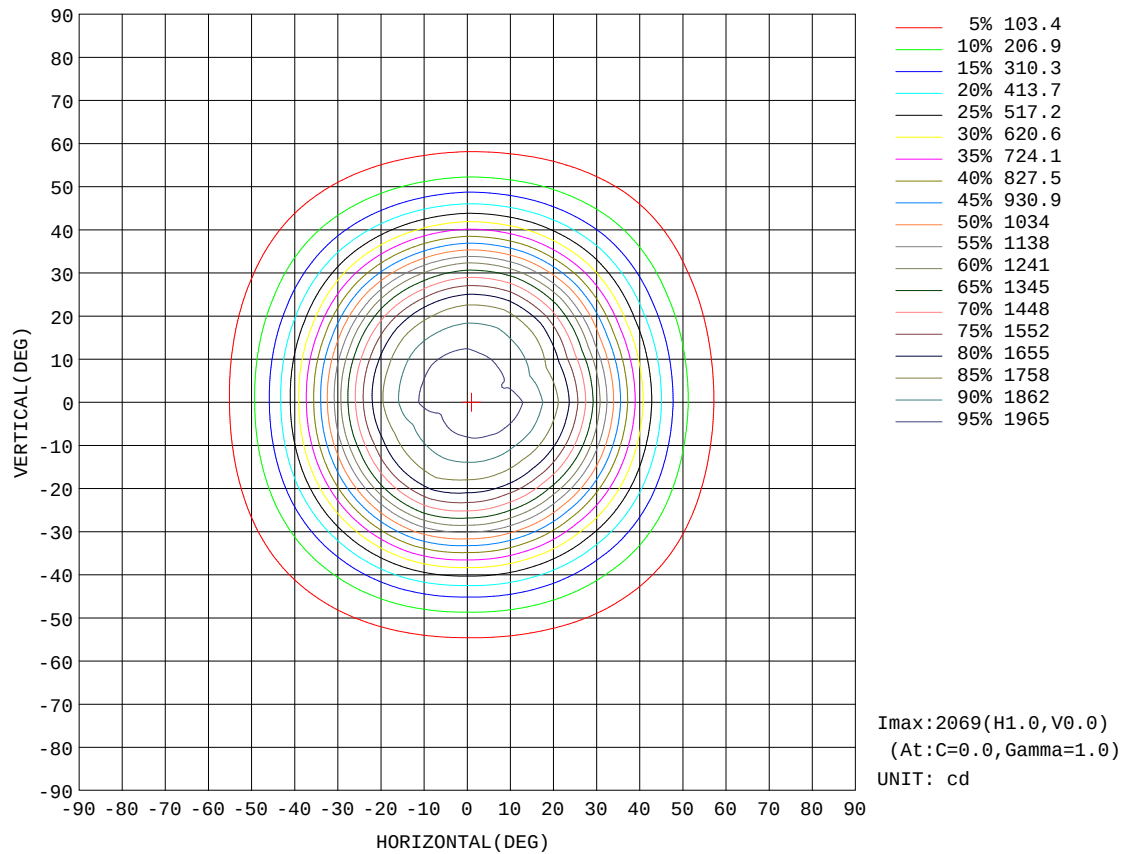
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	79	71	66	78	71	66	77	70	66	62
0.80	87	80	75	87	80	75	85	79	75	70
1.00	93	86	82	92	86	82	91	86	81	76
1.25	98	92	88	97	91	87	95	90	86	81
1.50	102	96	92	100	95	91	98	93	90	85
2.00	105	100	96	104	99	96	101	97	94	88
2.50	108	103	99	106	102	98	103	99	96	90
3.00	110	105	102	108	104	101	104	101	99	92
4.00	112	109	106	110	107	104	106	104	102	94
5.00	113	110	108	111	109	106	107	105	103	95
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:230.55V I:0.1352A P:29.113W PF:0.9340 Freq:49.99Hz Lamp Flux:2499.58x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

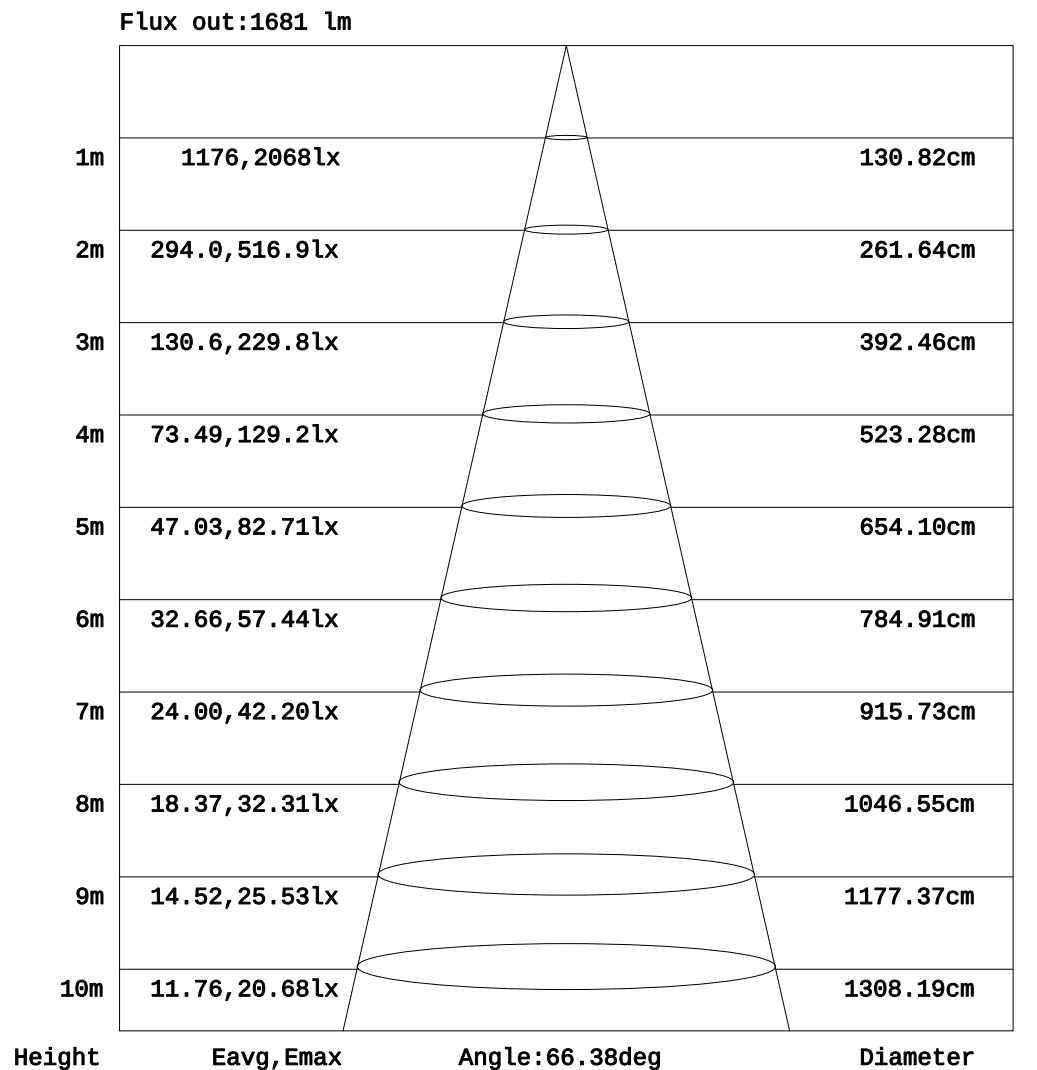


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-05-23

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:230.55V I:0.1352A P:29.113W PF:0.9340 Freq:49.99Hz Lamp Flux:2499.58x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



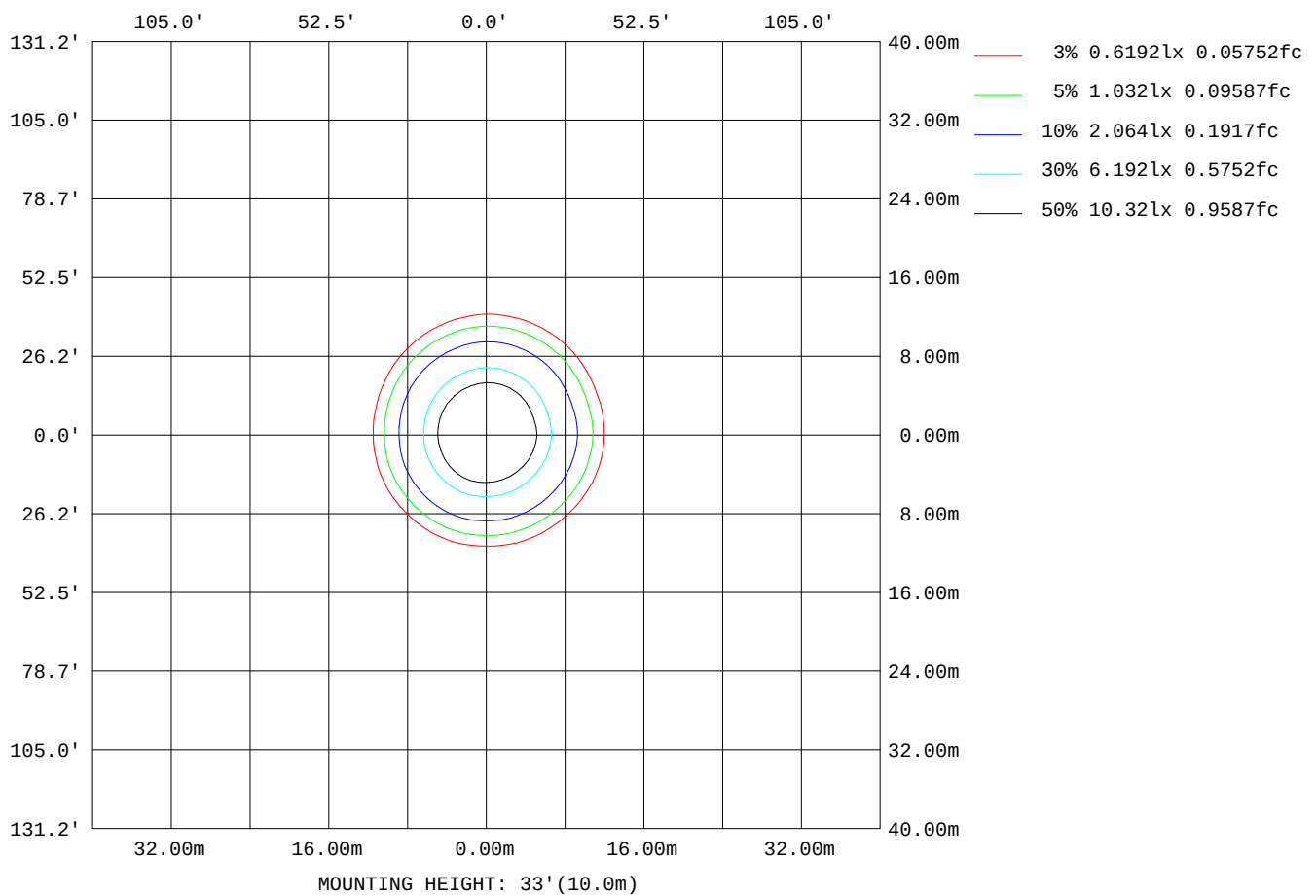
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.55V I:0.1352A P:29.113W PF:0.9340 Freq:49.99Hz Lamp Flux:2499.58x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white 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:230.55V I:0.1352A P:29.113W PF:0.9340 Freq:49.99Hz Lamp Flux:2499.58x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

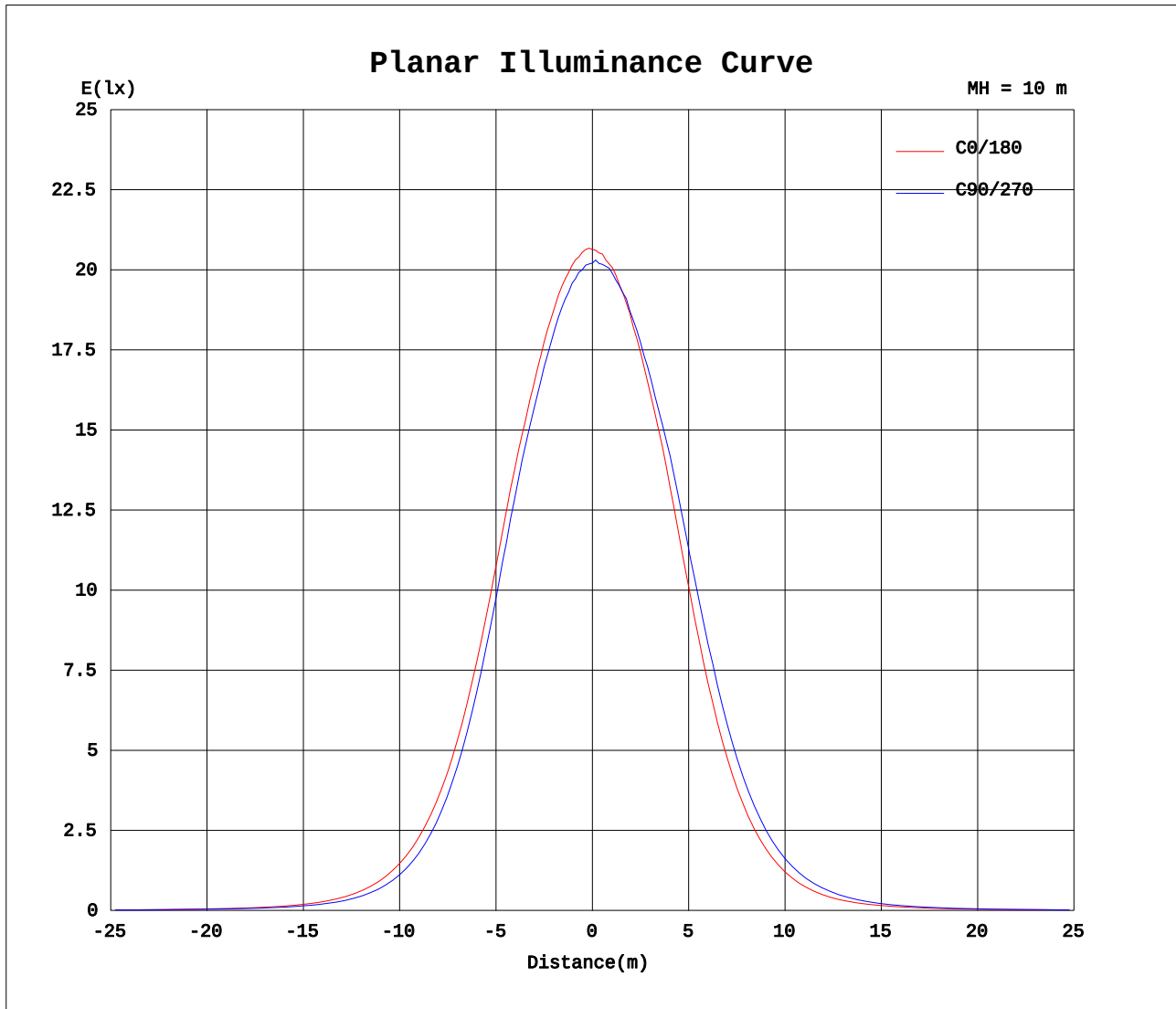
AvgL	cd/m2
L_0~180(65)av	34236
L_0~180(75)av	31391
L_0~180(85)av	40380
L_90~270(65)av	34420
L_90~270(75)av	31068
L_90~270(85)av	39703
L_45(65)av	33920
L_45(75)av	30911
L_45(85)av	39652

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:

```