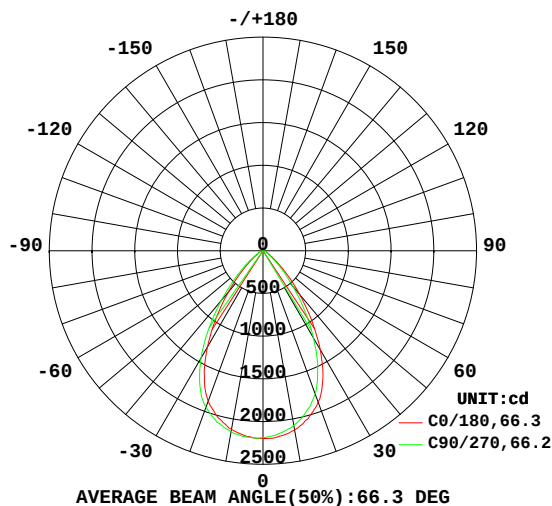


LUMINAIRE PHOTOMETRIC TEST REPORT

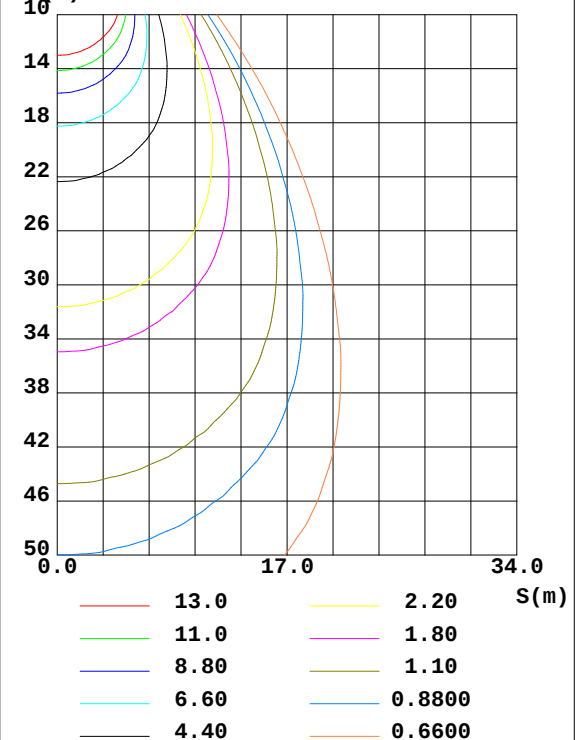
Test:U:230.58V I:0.1294A P:27.589W PF:0.9247 Freq:49.99Hz Lamp Flux:2644.96x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.87 lm/W			
MODEL	4000K	I _{max} (cd)	2200	S/MH(C0/180)	0.98
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.03
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	2645.0	η UP, DN(C0-180)	0.0, 47.4
NOMINAL FLUX(lm)	2644.96	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 52.6
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:

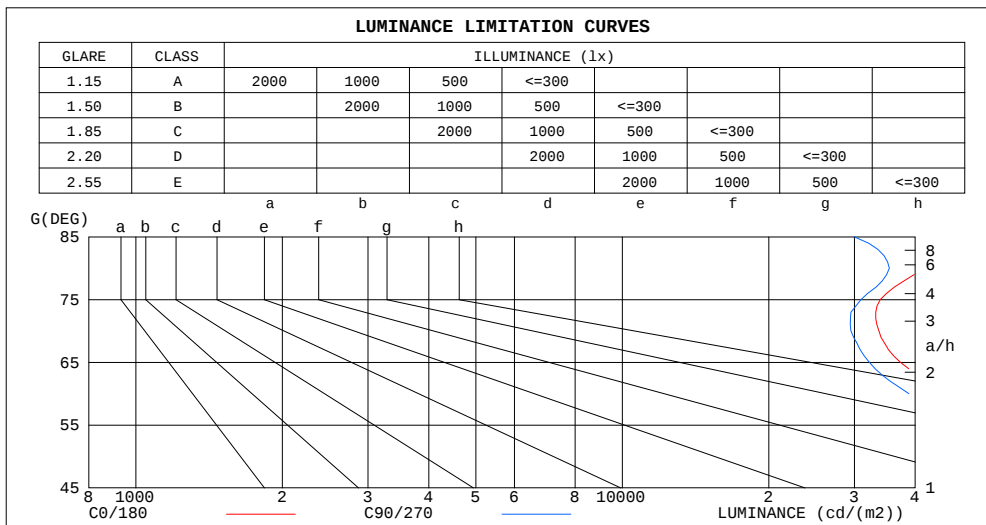
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2130	2094	2074	2074	2122	2149	2151	2130	0- 10	205.5	205.5	7.77, 7.77
20	1887	1825	1781	1800	1877	1937	1949	1916	10- 20	565.6	771.1	29.2, 29.2
30	1341	1244	1186	1212	1307	1417	1449	1403	20- 30	743.1	1514	57.2, 57.2
40	670.1	592.6	547.5	567.5	626.5	717.7	757.5	721.5	30- 40	603.7	2118	80.1, 80.1
50	236.8	200.1	179.2	185.2	211.5	255.4	275.8	261.4	40- 50	314.1	2432	92, 92
60	78.07	69.67	64.47	64.63	70.24	80.23	87.02	83.92	50- 60	118.0	2550	96.4, 96.4
70	38.26	35.45	33.51	33.52	34.92	37.74	39.91	39.45	60- 70	51.41	2601	98.4, 98.4
80	24.10	22.05	20.41	20.51	21.67	23.76	24.94	24.65	70- 80	30.43	2632	99.5, 99.5
90	1.120	0.5520	0.6022	0.5984	0.2162	0.7914	2.903	2.409	80- 90	13.10	2645	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:230.58V I:0.1294A P:27.589W PF:0.9247 Freq:49.99Hz Lamp Flux:2644.96x1 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	48503	29975
80	41811	35394
75	33903	30959
70	33694	29511
65	37306	32183
60	47028	38835
55	68440	52876
50	110951	83971
45	177855	138975

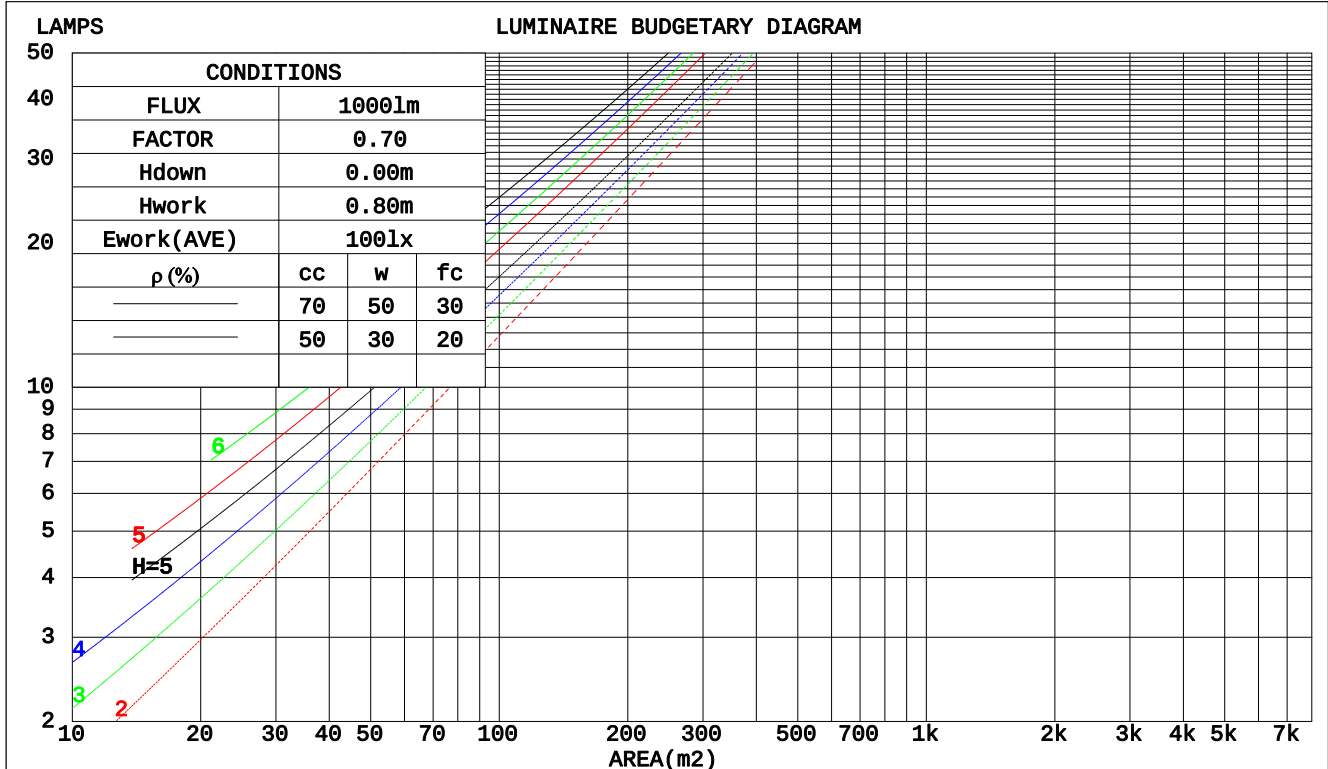
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

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:230.58V I:0.1294A P:27.589W PF:0.9247 Freq:49.99Hz Lamp Flux:2644.96x1 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	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	1.09	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	.92	.98	.94	.90	.95	.92	.88	.92	.89	.87	.89	.87	.85	.83
3.0	.92	.86	.82	.91	.85	.81	.88	.83	.80	.85	.82	.78	.83	.80	.77	.76
4.0	.85	.79	.74	.84	.78	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
5.0	.79	.72	.67	.78	.71	.67	.76	.70	.66	.74	.69	.65	.72	.68	.65	.63
6.0	.73	.66	.61	.72	.66	.61	.70	.65	.61	.69	.64	.60	.68	.63	.60	.58
7.0	.68	.61	.56	.67	.61	.56	.66	.60	.56	.64	.59	.55	.63	.59	.55	.54
8.0	.63	.57	.52	.63	.56	.52	.62	.56	.52	.60	.55	.51	.59	.55	.51	.50
9.0	.59	.53	.48	.59	.52	.48	.58	.52	.48	.57	.52	.48	.56	.51	.48	.46
10.0	.56	.49	.45	.55	.49	.45	.54	.49	.45	.53	.48	.45	.53	.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:230.58V I:0.1294A P:27.589W PF:0.9247 Freq:49.99Hz Lamp Flux:2644.96x1 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	.037	.201	.115	.036	.188	.108	.034	.176	.102	.033	.166	.096	.031		
2.0	.199	.109	.033	.193	.106	.033	.182	.101	.031	.172	.097	.030	.163	.092	.029		
3.0	.189	.100	.030	.184	.098	.030	.174	.094	.029	.166	.091	.028	.158	.087	.027		
4.0	.179	.093	.027	.174	.091	.027	.166	.088	.026	.159	.085	.026	.152	.082	.025		
5.0	.169	.086	.025	.166	.085	.025	.158	.083	.024	.152	.080	.024	.146	.078	.023		
6.0	.161	.081	.023	.157	.080	.023	.151	.077	.023	.145	.075	.022	.140	.074	.022		
7.0	.153	.076	.021	.150	.075	.021	.144	.073	.021	.139	.071	.021	.134	.070	.020		
8.0	.145	.071	.020	.143	.070	.020	.138	.069	.020	.133	.067	.019	.129	.066	.019		
9.0	.139	.067	.019	.136	.066	.019	.132	.065	.018	.127	.064	.018	.123	.063	.018		
10.0	.132	.063	.018	.130	.063	.018	.126	.062	.017	.122	.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	.139	.099	.069	.120	.086	.060	.082	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.131	.088	.056	.113	.076	.049	.078	.053	.035	.045	.031	.020	.015	.010	.007	
6.0	.124	.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	.015	.013	.008	.005	
8.0	.112	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.107	.061	.029	.092	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.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:230.58V I:0.1294A P:27.589W PF:0.9247 Freq:49.99Hz Lamp Flux:2644.96x1 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	23.0	24.1	23.2	24.3	24.5	22.2	23.3	22.4	23.5	23.6	
	3H	23.1	24.1	23.3	24.3	24.5	22.3	23.3	22.5	23.5	23.7
	4H	23.1	24.1	23.4	24.3	24.5	22.3	23.3	22.6	23.5	23.7
	6H	23.3	24.1	23.6	24.4	24.7	22.5	23.4	22.8	23.6	23.9
	8H	23.3	24.2	23.7	24.5	24.7	22.5	23.4	22.8	23.6	23.9
	12H	23.4	24.2	23.7	24.5	24.8	22.5	23.4	22.9	23.6	23.9
4H	2H	22.9	23.8	23.1	24.0	24.3	22.1	23.0	22.4	23.3	23.5
	3H	23.0	23.9	23.4	24.1	24.4	22.3	23.1	22.6	23.4	23.7
	4H	23.2	23.9	23.5	24.2	24.5	22.4	23.2	22.8	23.5	23.8
	6H	23.4	24.1	23.8	24.4	24.8	22.7	23.4	23.1	23.7	24.0
	8H	23.6	24.2	24.0	24.5	24.9	22.8	23.4	23.2	23.8	24.1
	12H	23.7	24.3	24.1	24.7	25.0	22.9	23.4	23.3	23.8	24.2
8H	4H	23.2	23.8	23.6	24.1	24.5	22.5	23.1	22.9	23.4	23.8
	6H	23.5	24.0	24.0	24.4	24.9	22.9	23.4	23.3	23.8	24.2
	8H	23.8	24.2	24.2	24.6	25.1	23.0	23.5	23.5	23.9	24.3
	12H	24.0	24.4	24.5	24.8	25.3	23.2	23.6	23.6	24.0	24.5
12H	4H	23.2	23.7	23.6	24.1	24.5	22.5	23.0	22.9	23.4	23.8
	6H	23.6	24.0	24.0	24.4	24.9	22.9	23.3	23.3	23.7	24.2
	8H	23.8	24.2	24.3	24.7	25.1	23.1	23.5	23.6	23.9	24.4
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 1.6 / - 2.3					+ 1.4 / - 2.3					
1.5H	+ 2.6 / - 2.3					+ 2.3 / - 2.1					
2.0H	+ 3.4 / - 1.8					+ 2.8 / - 1.5					

CIE Pub.117, 2645 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.4)
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:230.58V I:0.1294A P:27.589W PF:0.9247 Freq:49.99Hz Lamp Flux:2644.96x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

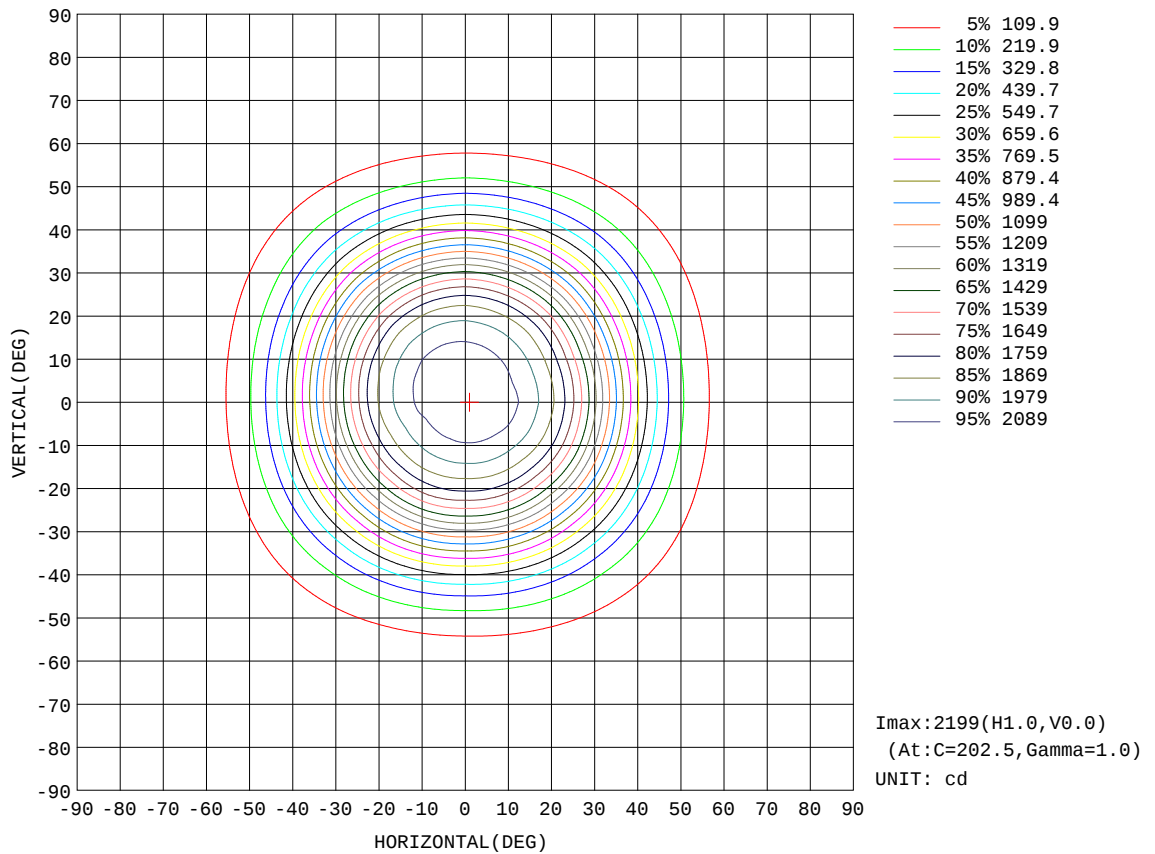
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	79	71	66	78	71	66	78	71	66	62
0.80	88	80	75	87	80	75	85	79	75	70
1.00	93	87	82	93	86	82	91	86	81	76
1.25	98	92	88	97	91	87	95	90	86	82
1.50	102	96	92	100	95	91	98	94	90	85
2.00	106	100	97	104	99	96	101	97	94	88
2.50	108	103	99	106	102	98	103	99	97	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	111	108	111	109	107	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:230.58V I:0.1294A P:27.589W PF:0.9247 Freq:49.99Hz Lamp Flux:2644.96x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:



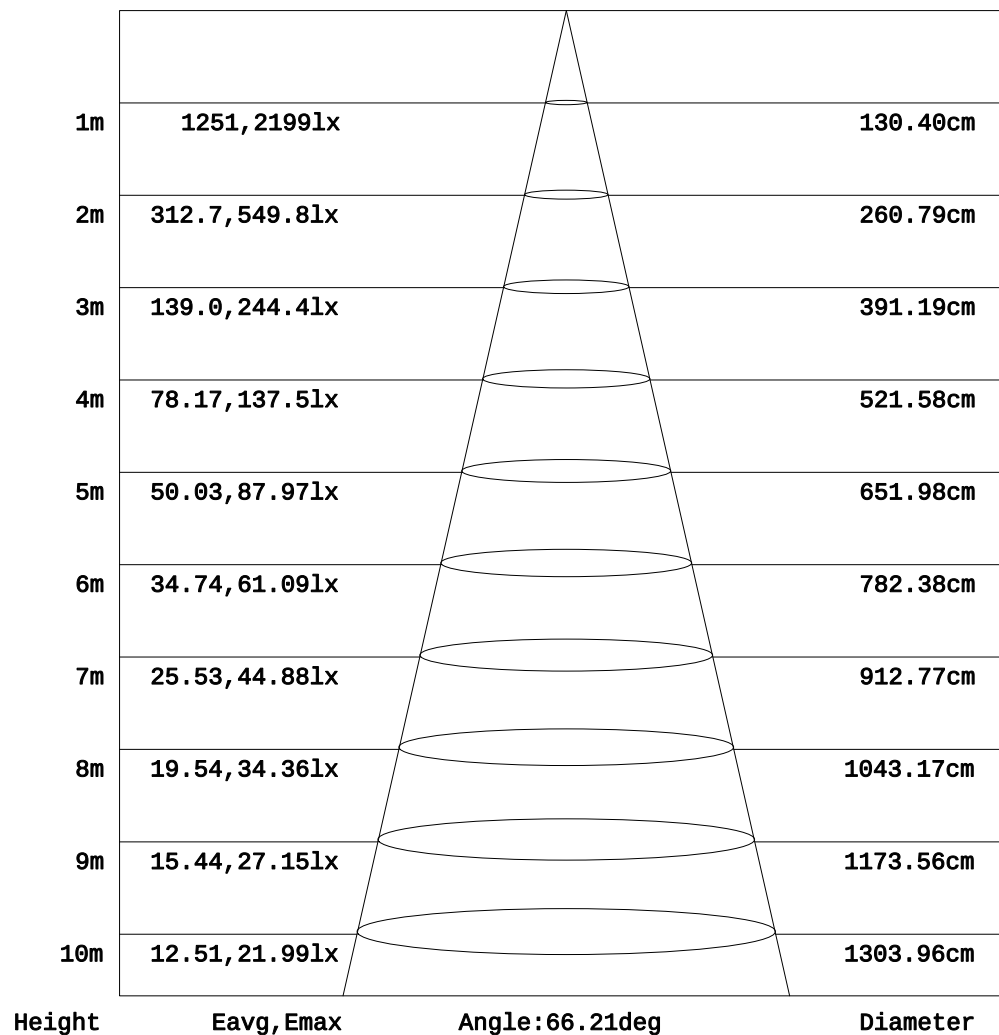
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-05-23

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:230.58V I:0.1294A P:27.589W PF:0.9247 Freq:49.99Hz Lamp Flux:2644.96x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

Flux out:1788 lm



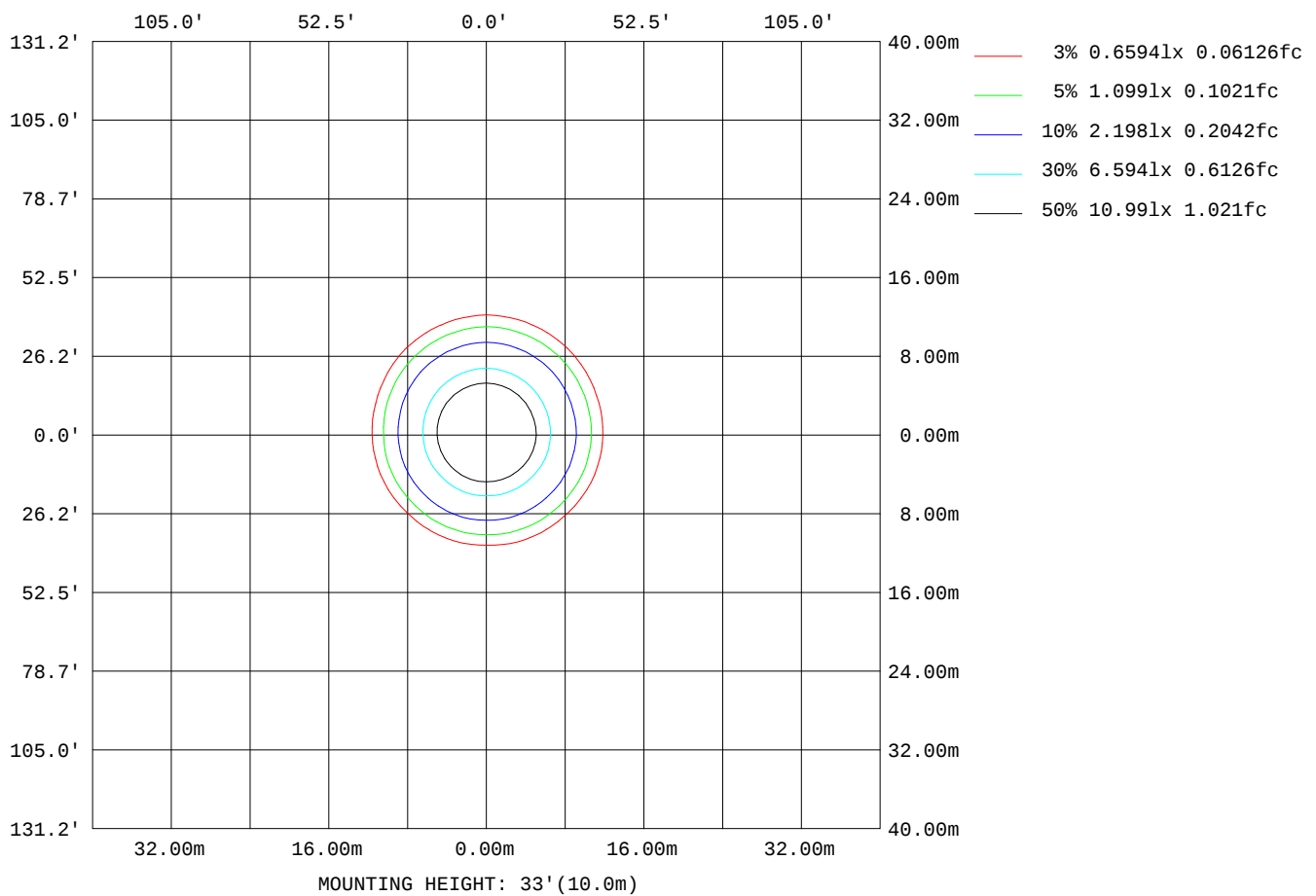
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.58V I:0.1294A P:27.589W PF:0.9247 Freq:49.99Hz Lamp Flux:2644.96x1 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:230.58V I:0.1294A P:27.589W PF:0.9247 Freq:49.99Hz Lamp Flux:2644.96x1 lm		
NAME: BJ30-WHC30C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 65mm	Shielding Angle:

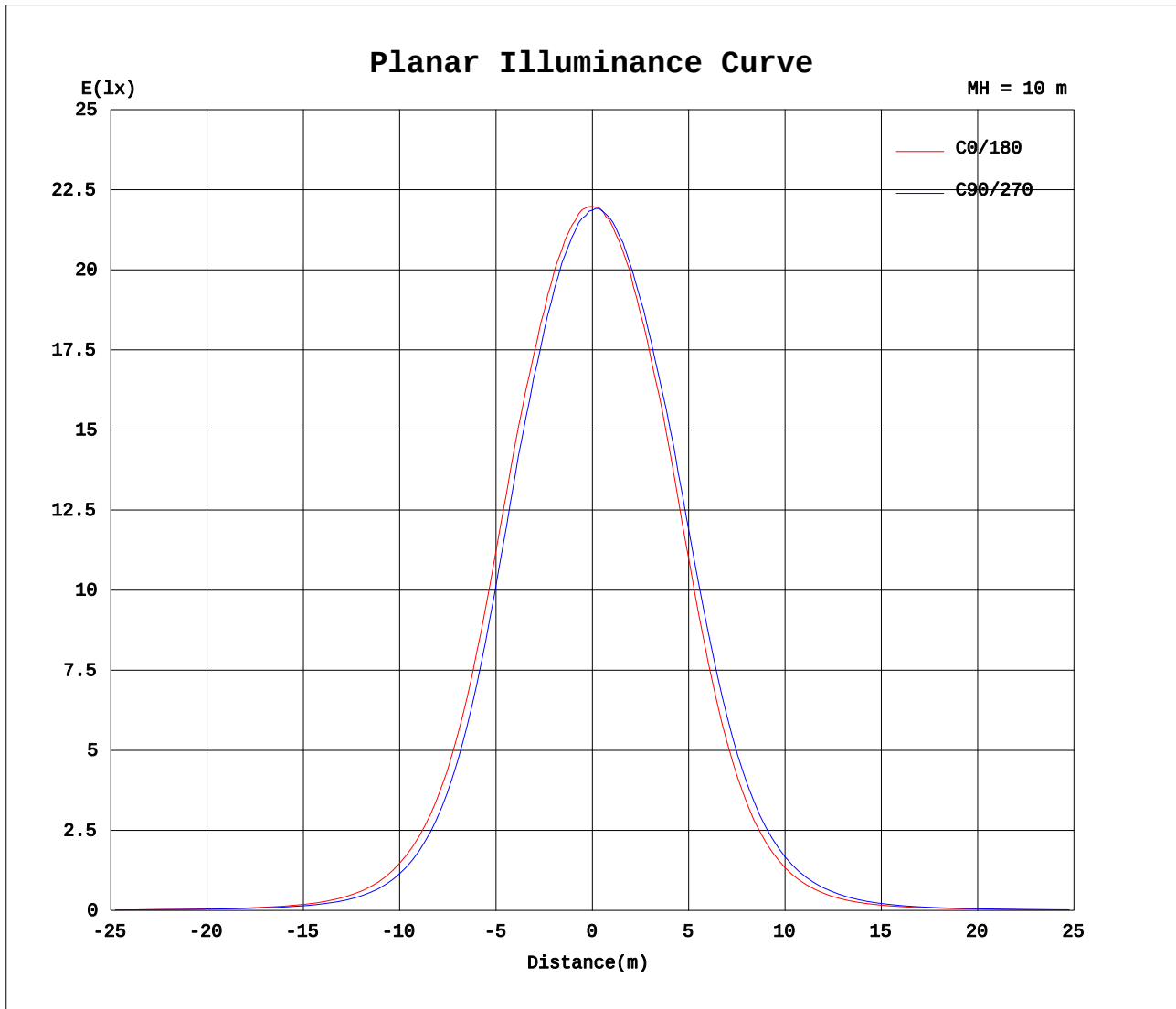
AvgL	cd/m2
L_0~180(65)av	35628
L_0~180(75)av	32814
L_0~180(85)av	42395
L_90~270(65)av	36156
L_90~270(75)av	32987
L_90~270(85)av	42159
L_45(65)av	35690
L_45(75)av	32773
L_45(85)av	42203

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:

```