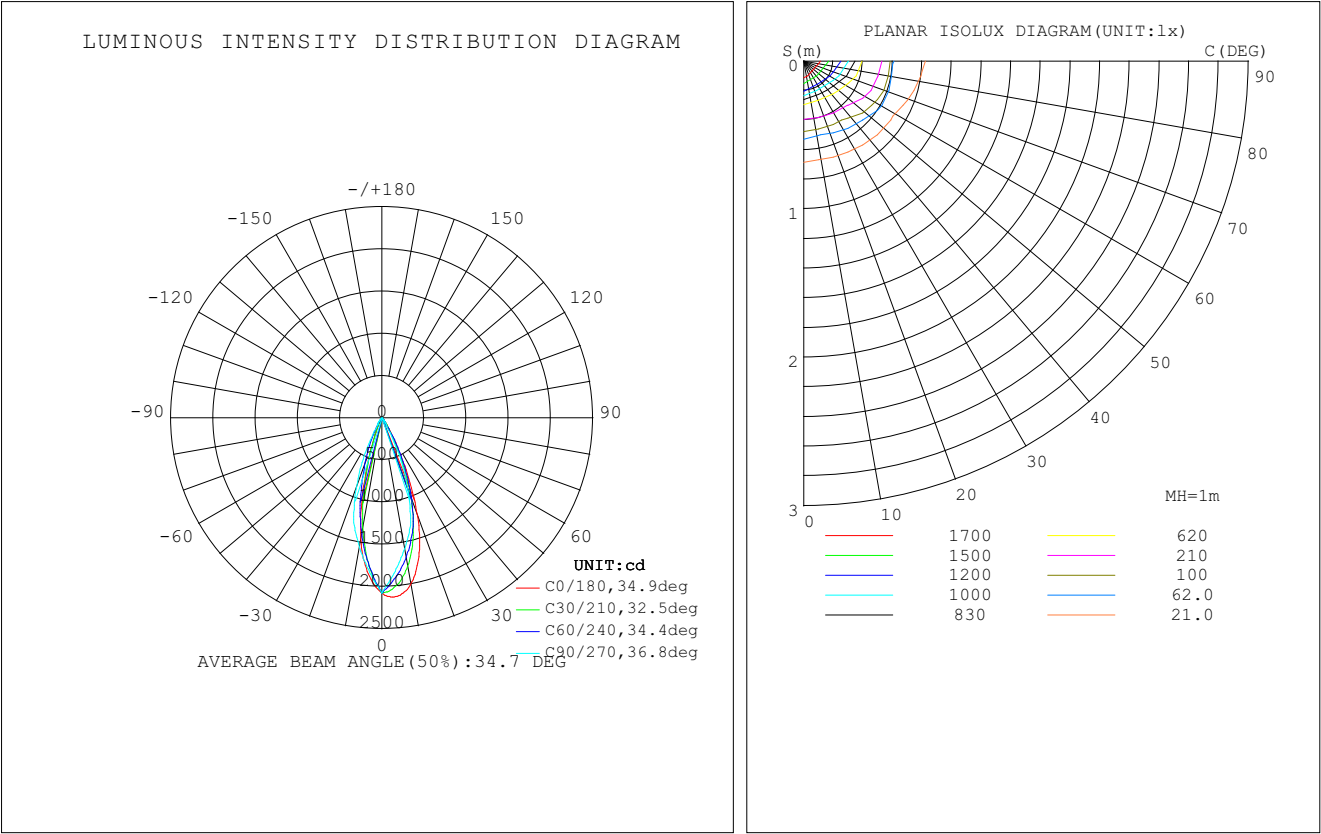




LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:222.3V I:0.0490A P:10.00W PF:0.9150 Lamp Flux:1050x1 lm		
NAME: BOMBU COLGANTE 05.AA86.01_0.__	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024092001
MFR.: IDEA ILUMINACIÓN S.A.	SUR.:1	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 75.81 lm/W
MODEL	05.AA86.0__0.__	Imax(cd)	2129	S/MH(C0/180)	0.44	
NOMINAL POWER(W)	10	LOR(%)	72.2	S/MH(C90/270)	0.59	
RATED VOLTAGE(V)	222	TOTAL FLUX(lm)	758.15	h UP,DN(C0-180)	0.0,35.4	
NOMINAL FLUX(lm)	1050	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,36.8	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	222.4	h down(%)	72.2	CIBSE SHR MAX	0.55	



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Test Date:2024-09-20

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:

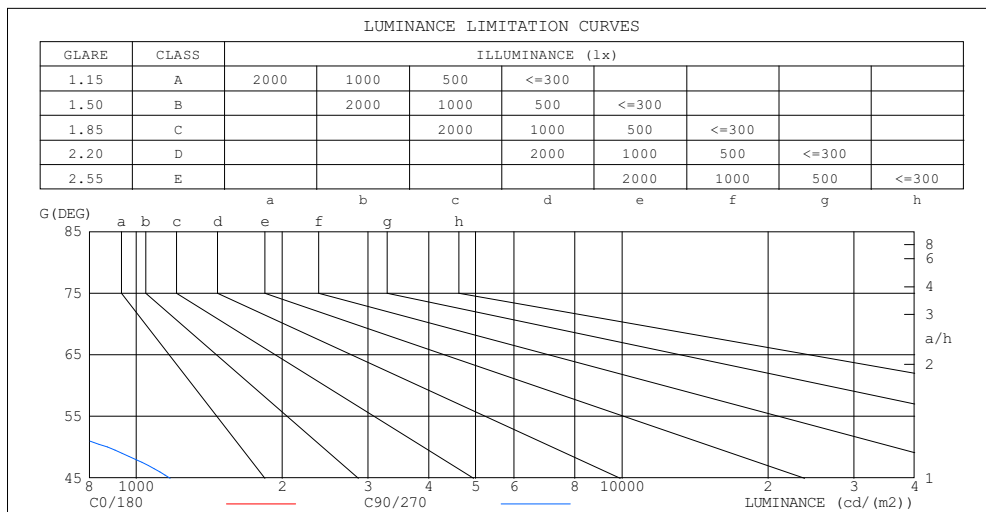


/BOMBU COLGANTE (05.AA86.0__0.__)

ZONAL FLUX DIAGRAM AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	1860	1753	1816	1948	2124	1948	1826	1765	0- 5	46.56	46.56	6.14,4.43
10	1454	1338	1555	1737	2001	1725	1575	1368	5- 10	122.7	169.3	22.3,16.1
15	853.1	861.6	1294	1440	1702	1417	1324	905.0	10- 15	164.1	333.4	44,31.8
20	352.3	424.9	898.6	1068	1245	1041	924.9	472.3	15- 20	162.5	495.9	65.4,47.2
25	132.3	189.4	503.6	650.3	685.3	638.2	526.1	217.5	20- 25	125.4	621.3	82,59.2
30	64.81	85.84	108.7	327.4	283.9	324.3	127.2	99.98	25- 30	74.20	695.5	91.7,66.2
35	33.38	39.76	74.60	129.6	109.2	129.3	87.72	46.67	30- 35	33.14	728.6	96.1,69.4
40	11.39	15.10	40.54	41.11	47.76	41.55	48.22	19.98	35- 40	17.09	745.7	98.4,71
45	2.547	5.628	6.474	21.16	19.86	21.80	8.711	7.156	40- 45	8.285	754.0	99.5,71.8
50	0.2259	1.867	4.370	7.753	5.096	8.063	5.839	2.320	45- 50	2.673	756.7	99.8,72.1
55	0.1459	0.1210	2.266	0.1916	0.1975	0.2005	2.967	0.1354	50- 55	0.7834	757.5	99.9,72.1
60	0.0965	0.1110	0.1624	0.1509	0.1176	0.1274	0.0941	0.0930	55- 60	0.2411	757.7	99.9,72.2
65	0.0612	0.1122	0.2267	0.1223	0.0682	0.0672	0.0635	0.0604	60- 65	0.0563	757.8	100,72.2
70	0.0424	0.1529	0.2910	0.1503	0.0376	0.0311	0.0329	0.0340	65- 70	0.0468	757.8	100,72.2
75	0.0306	0.2512	0.3553	0.2470	0.0141	0.0139	0.0024	0.0154	70- 75	0.0522	757.9	100,72.2
80	0.0212	0.3520	0.4180	0.3471	0.0023	0.0022	0.0016	0	75- 80	0.0659	757.9	100,72.2
85	0.0118	0.4435	0.4808	0.4222	0.0000	0.0011	0.0008	0	80- 85	0.0889	758.0	100,72.2
90	0.0047	0.5365	0.5435	0.4988	0.0046	0.0000	0	0	85- 90	0.1198	758.1	100,72.2
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	17	707
80	16	309
75	15	176
70	16	109
65	19	69
60	25	42
55	33	507
50	45	872
45	462	1174

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Test Date:2024-09-20

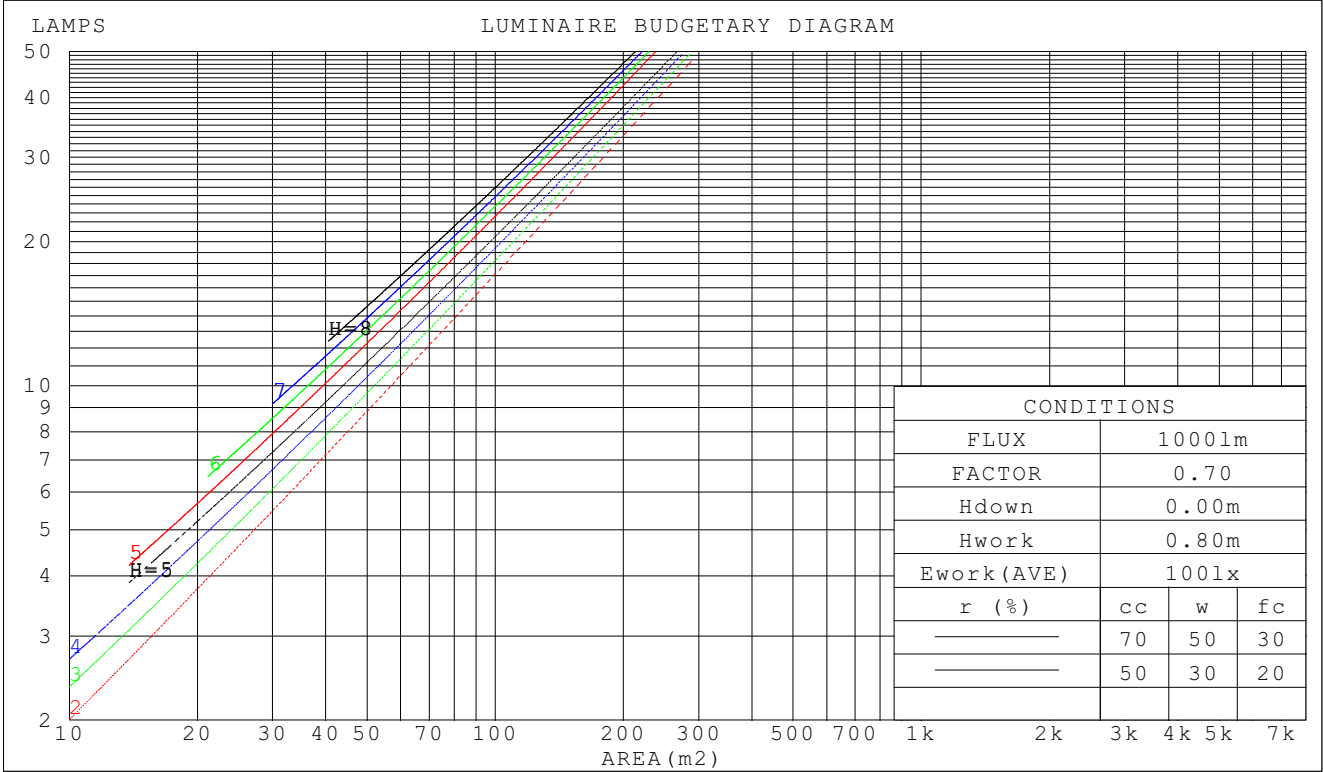
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:



CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:222.3V I:0.0490A P:10.00W PF:0.9150 Lamp Flux:1050x1 lm		
NAME: BOMBU COLGANTE 05.AA86.01_0.__	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024092001
MFR.: IDEA ILUMINACIÓN S.A.	SUR.:1	PROTECTION ANGLE:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	.86	.86	.86	.84	.84	.84	.80	.80	.80	.77	.77	.77	.74	.74	.74	.72
1.0	.81	.80	.78	.79	.78	.77	.77	.76	.75	.74	.73	.72	.71	.71	.70	.69
2.0	.77	.74	.72	.75	.73	.71	.73	.71	.70	.71	.70	.68	.69	.68	.67	.66
3.0	.73	.70	.68	.72	.69	.67	.70	.68	.66	.68	.67	.65	.67	.65	.64	.63
4.0	.69	.66	.64	.69	.66	.63	.67	.65	.63	.66	.64	.62	.64	.63	.61	.60
5.0	.66	.63	.60	.66	.62	.60	.64	.62	.60	.63	.61	.59	.62	.60	.59	.58
6.0	.63	.60	.57	.63	.60	.57	.62	.59	.57	.61	.58	.57	.60	.58	.56	.55
7.0	.61	.57	.55	.60	.57	.55	.59	.57	.54	.59	.56	.54	.58	.56	.54	.53
8.0	.58	.55	.52	.58	.55	.52	.57	.54	.52	.57	.54	.52	.56	.54	.52	.51
9.0	.56	.53	.50	.56	.52	.50	.55	.52	.50	.55	.52	.50	.54	.52	.50	.49
10.0	.54	.51	.48	.54	.51	.48	.53	.50	.48	.53	.50	.48	.52	.50	.48	.47



C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:30DEG

Test Date:2024-09-20

g Range: 0 - 90DEG

g Interval: 0.5DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275

Humidity:65.0%

Test Distance:5.835m [K=1.0000]

Remarks:



/BOMBU COLGANTE (05.AA86.0__0.__)

WEC AND CCEC

Test:U:222.3V I:0.0490A P:10.00W PF:0.9150 Lamp Flux:1050x1 lm								
NAME: BOMBU COLGANTE 05.AA86.01_0.__				TYPE:			WEIGHT:	
DIM.:				SPEC.:			SERIAL No.:2024092001	
MFR.: IDEA ILUMINACIÓN S.A.				SUR.:1			PROTECTION ANGLE:	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.108	.062	.020	.104	.059	.019	.095	.054	.017	.086	.050	.016	.079	.046	.015	
2.0	.102	.056	.017	.098	.054	.017	.090	.050	.016	.083	.047	.015	.077	.043	.014	
3.0	.096	.051	.015	.092	.049	.015	.086	.047	.014	.080	.044	.013	.075	.041	.013	
4.0	.090	.047	.014	.087	.046	.014	.082	.044	.013	.077	.041	.013	.073	.039	.012	
5.0	.086	.044	.013	.083	.043	.012	.079	.041	.012	.074	.039	.012	.070	.038	.011	
6.0	.082	.041	.012	.079	.040	.012	.075	.039	.011	.072	.037	.011	.068	.036	.011	
7.0	.078	.039	.011	.076	.038	.011	.073	.037	.011	.069	.036	.010	.066	.034	.010	
8.0	.075	.036	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010	.064	.033	.010	
9.0	.072	.035	.010	.070	.034	.010	.067	.033	.009	.065	.032	.009	.062	.032	.009	
10.0	.069	.033	.009	.067	.033	.009	.065	.032	.009	.063	.031	.009	.060	.030	.009	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.138	.138	.138	.118	.118	.118	.080	.080	.080	.046	.046	.046	.015	.015	.015	
1.0	.122	.114	.106	.105	.098	.091	.072	.067	.063	.041	.039	.037	.013	.013	.012	
2.0	.110	.096	.084	.094	.082	.073	.064	.057	.051	.037	.033	.030	.012	.011	.010	
3.0	.100	.082	.068	.085	.071	.059	.059	.049	.041	.034	.029	.024	.011	.009	.008	
4.0	.091	.071	.055	.078	.061	.048	.054	.043	.034	.031	.025	.020	.010	.008	.007	
5.0	.084	.062	.046	.072	.054	.040	.050	.038	.028	.029	.022	.017	.009	.007	.006	
6.0	.078	.055	.039	.067	.048	.034	.046	.033	.024	.027	.020	.014	.009	.006	.005	
7.0	.073	.049	.033	.063	.043	.029	.043	.030	.020	.025	.018	.012	.008	.006	.004	
8.0	.069	.045	.028	.059	.039	.025	.041	.027	.018	.024	.016	.010	.008	.005	.003	
9.0	.065	.041	.025	.056	.035	.021	.039	.025	.015	.023	.015	.009	.007	.005	.003	
10.0	.061	.037	.022	.053	.033	.019	.037	.023	.013	.021	.014	.008	.007	.004	.003	

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:30DEG

Test Date:2024-09-20

g Range: 0 - 90DEG

g Interval: 0.5DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275

Humidity:65.0%

Test Distance:5.835m [K=1.0000]

Remarks:



/BOMBU COLGANTE (05.AA86.0__0.__)

Uncorrected UGR Table

Test:U:222.3V I:0.0490A P:10.00W PF:0.9150 Lamp Flux:1050x1 lm										
NAME: BOMBU COLGANTE 05.AA86.01_0.__					TYPE:			WEIGHT:		
DIM.:					SPEC.:			SERIAL No.:2024092001		
MFR.: IDEA ILUMINACIÓN S.A.					SUR.:1			PROTECTION 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	1.7	2.4	1.9	2.6	2.7	5.6	6.3	5.8	6.5	6.6
3H	1.5	2.2	1.8	2.4	2.6	5.4	6.1	5.7	6.3	6.5
4H	1.5	2.1	1.7	2.3	2.5	5.4	6.0	5.6	6.2	6.4
6H	1.4	2.0	1.7	2.2	2.5	5.3	5.9	5.6	6.2	6.4
8H	1.3	1.9	1.6	2.2	2.4	5.3	5.9	5.6	6.1	6.4
12H	1.3	1.8	1.6	2.1	2.4	5.3	5.9	5.6	6.2	6.4
4H 2H	1.5	2.1	1.7	2.3	2.5	5.3	6.0	5.6	6.2	6.4
3H	1.3	1.9	1.6	2.1	2.4	5.2	5.7	5.5	6.0	6.3
4H	1.2	1.7	1.5	2.0	2.3	5.1	5.6	5.4	5.9	6.2
6H	1.1	1.5	1.5	1.9	2.2	5.1	5.5	5.4	5.8	6.2
8H	1.0	1.5	1.4	1.8	2.2	5.1	5.5	5.5	5.9	6.2
12H	1.0	1.4	1.4	1.8	2.1	5.2	5.6	5.6	5.9	6.3
8H 4H	1.1	1.5	1.4	1.8	2.2	5.0	5.4	5.3	5.7	6.1
6H	1.0	1.4	1.4	1.8	2.2	4.9	5.3	5.4	5.7	6.1
8H	1.0	1.3	1.5	1.7	2.2	5.0	5.3	5.4	5.7	6.2
12H	1.1	1.4	1.5	1.8	2.3	5.2	5.4	5.6	5.9	6.4
12H 4H	1.0	1.4	1.4	1.8	2.2	4.9	5.3	5.3	5.7	6.0
6H	1.0	1.3	1.5	1.7	2.2	4.9	5.2	5.3	5.6	6.1
8H	1.1	1.4	1.6	1.8	2.3	5.0	5.3	5.5	5.7	6.2
Variations with the observer position at spacings:										
S = 1.0H	+ 3.7 / - 8.4					+ 4.7 / - 9.1				
1.5H	+ 6.4 / - 8.4					+ 7.4 / - 9.4				
2.0H	+ 3.5 / - 0.8					+ 4.5 / - 1.7				

CIE Pub.117 Corrected 1050 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.2)

C Range: 0 - 360DEG	g Range: 0 - 90DEG
C Interval: 5.0DEG	g Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Temperature:30DEG	Humidity:65.0%
Operators:	Test Distance:5.835m [K=1.0000]
Test Date:2024-09-20	Remarks:

UTILIZATION FACTORS TABLE

Test:U:222.3V I:0.0490A P:10.00W PF:0.9150 Lamp Flux:1050x1 lm		
NAME: BOMBU COLGANTE 05.AA86.01_0.____	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024092001
MFR.: IDEA ILUMINACIÓN S.A.	SUR.:1	PROTECTION ANGLE:

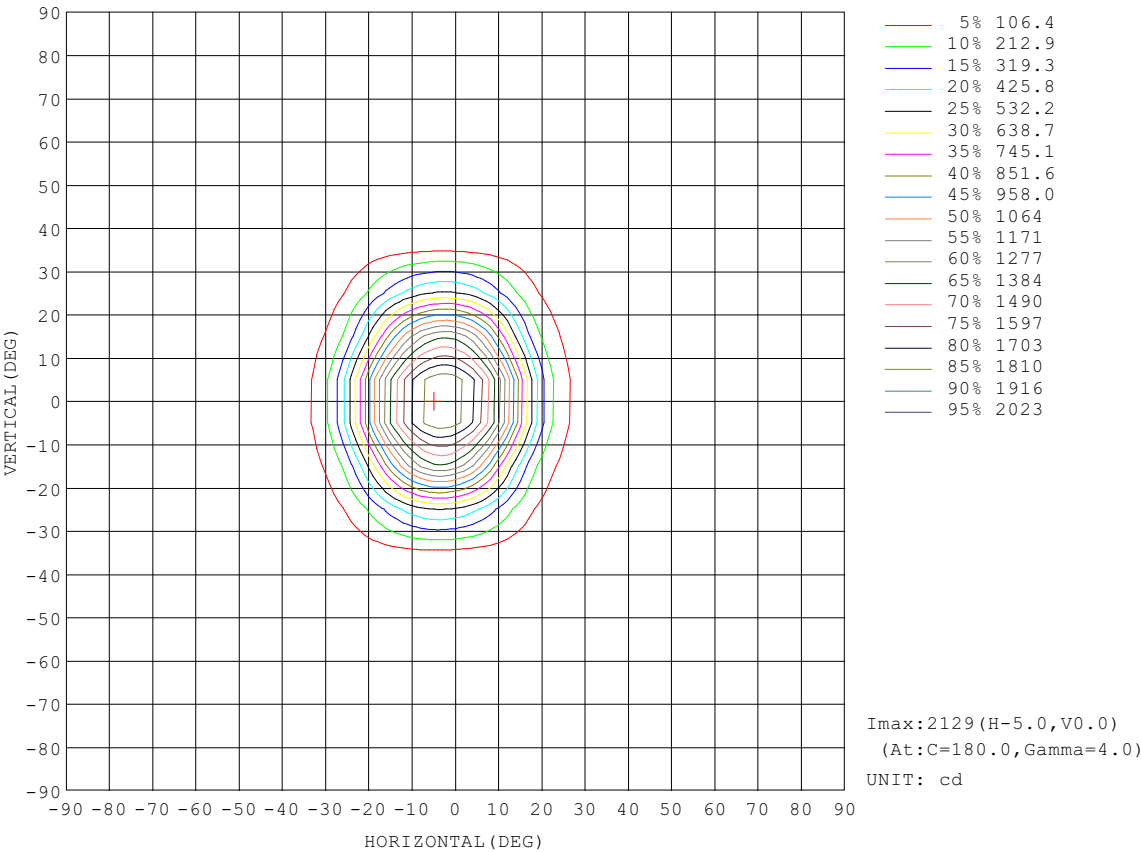
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	61	59	65	61	59	65	61	59	56
0.80	70	67	64	70	66	64	69	66	64	61
1.00	73	70	67	73	69	67	72	69	67	64
1.25	76	72	70	75	72	70	74	71	69	67
1.50	78	75	72	77	74	72	75	73	71	68
2.00	79	76	74	78	76	74	76	74	73	69
2.50	80	78	76	79	77	75	77	75	74	70
3.00	81	79	77	80	78	76	78	76	75	70
4.00	83	81	79	81	80	78	79	77	76	71
5.00	83	82	81	82	81	80	79	78	77	72
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNM = 1.25		

```
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:
```



ISOCANDELA DIAGRAM

Test:U:222.3V I:0.0490A P:10.00W PF:0.9150 Lamp Flux:1050x1 lm		
NAME: BOMBU COLGANTE 05.AA86.01_0.__	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024092001
MFR.: IDEA ILUMINACIÓN S.A.	SUR.:1	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-09-20

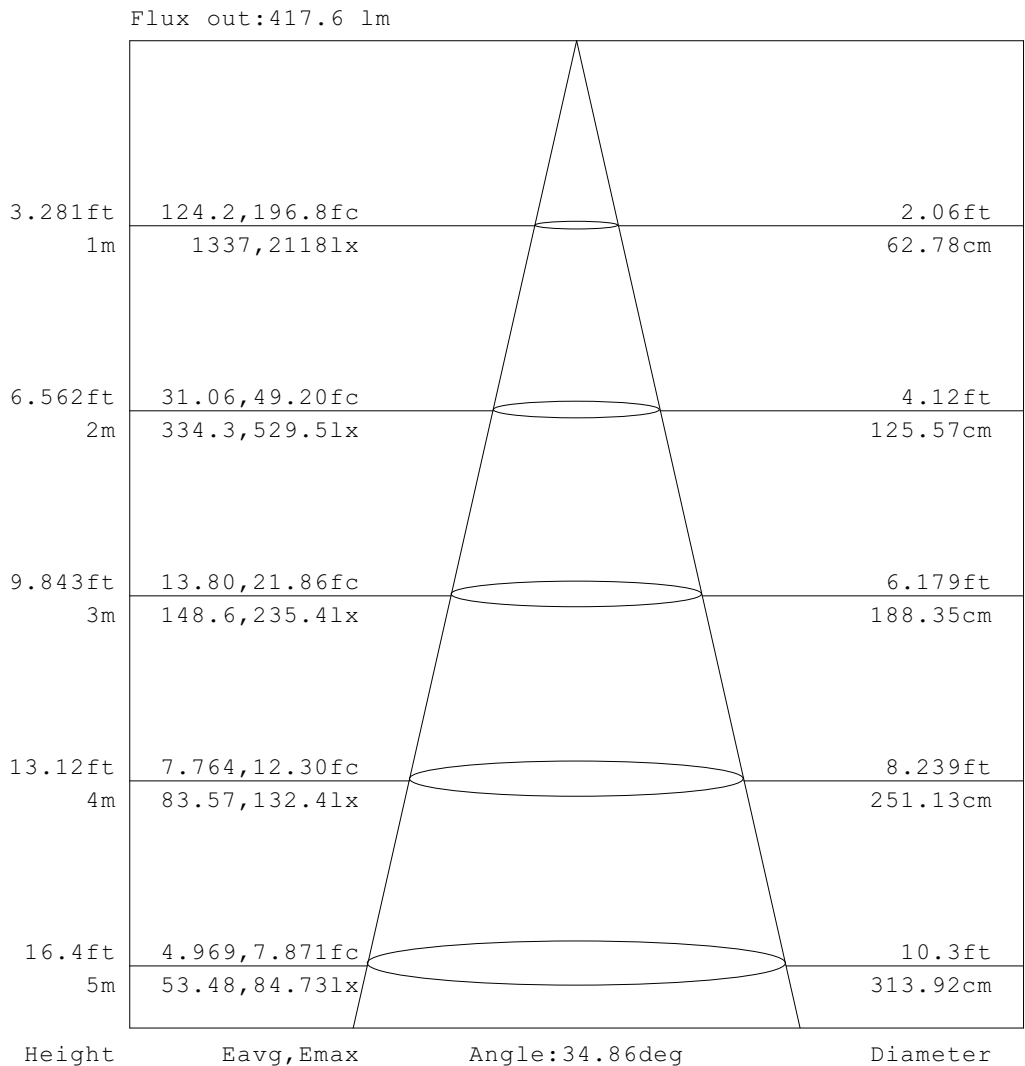
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:



/BOMBU COLGANTE (05.AA86.0__0.__)

AAI Figure

Test:U:222.3V I:0.0490A P:10.00W PF:0.9150 Lamp Flux:1050x1 lm		
NAME: BOMBU COLGANTE 05.AA86.01_0.__	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024092001
MFR.: IDEA ILUMINACIÓN S.A.	SUR.:1	PROTECTION ANGLE:



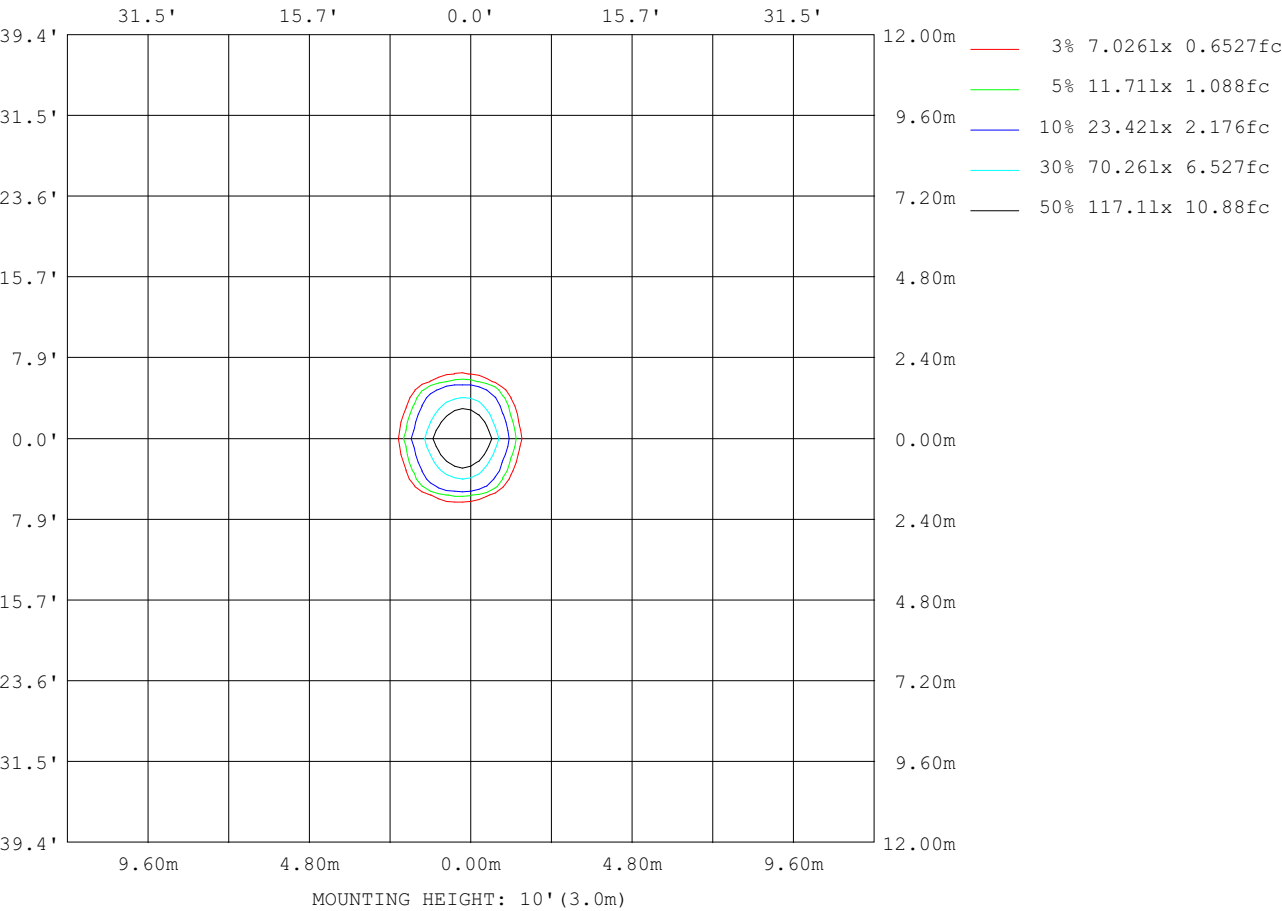
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG	g Range: 0 - 90DEG
C Interval: 5.0DEG	g Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Temperature:30DEG	Humidity:65.0%
Operators:	Test Distance:5.835m [K=1.0000]
Test Date:2024-09-20	Remarks:



ISOLUX DIAGRAM

Test:U:222.3V I:0.0490A P:10.00W PF:0.9150 Lamp Flux:1050x1 lm		
NAME: BOMBU COLGANTE 05.AA86.01_0.__	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024092001
MFR.: IDEA ILUMINACIÓN S.A.	SUR.:1	PROTECTION ANGLE:

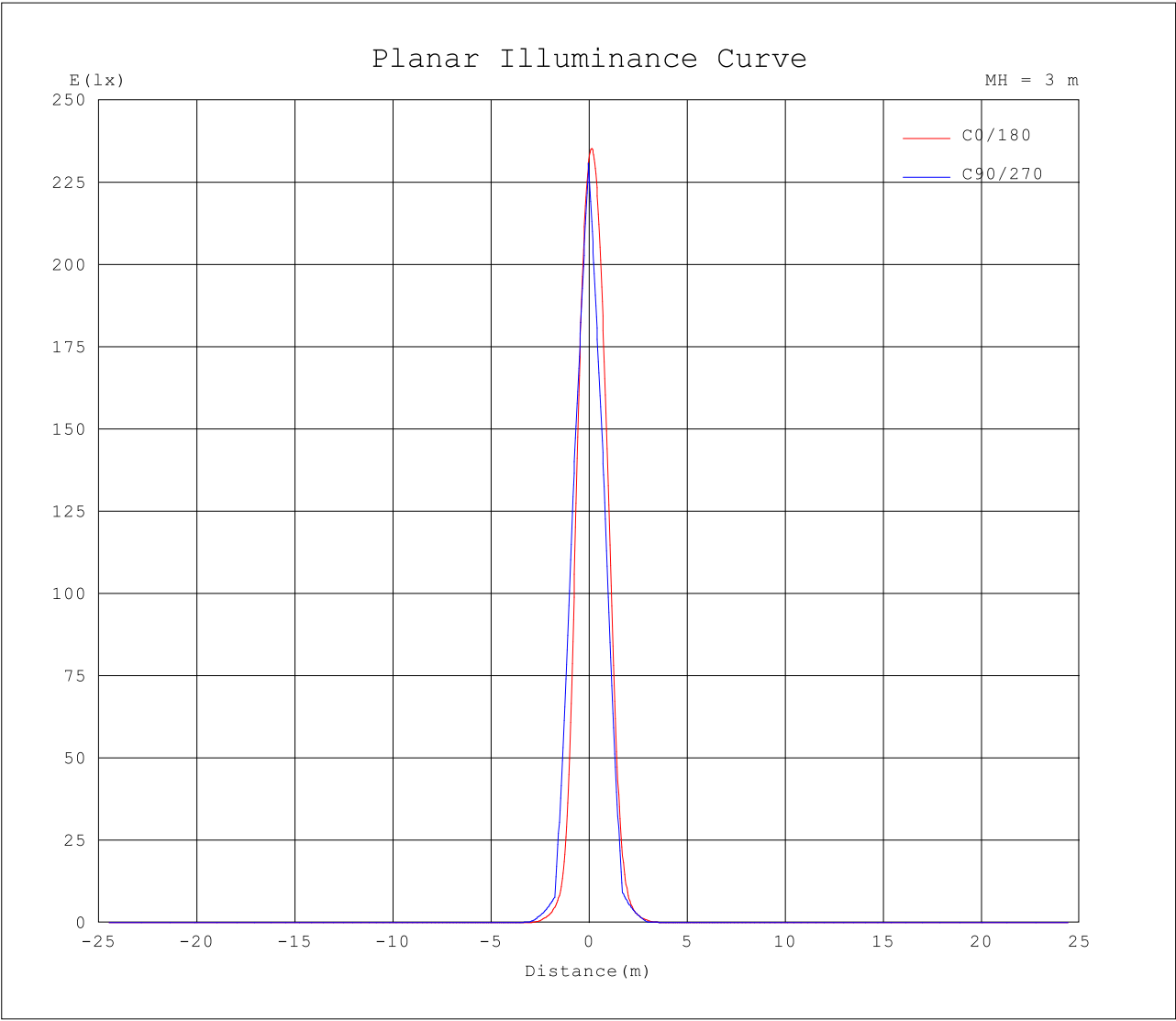


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:
Test Date:2024-09-20

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:5.835m [K=1.0000]
Remarks:



Planar Illuminance Curve



C Range: 0 - 360DEG	g Range: 0 - 90DEG
C Interval: 5.0DEG	g Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Temperature:30DEG	Humidity:65.0%
Operators:	Test Distance:5.835m [K=1.0000]
Test Date:2024-09-20	Remarks: