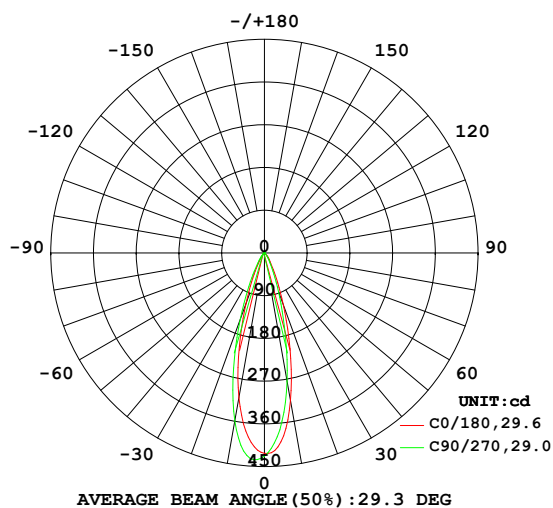


LUMINAIRE PHOTOMETRIC TEST REPORT

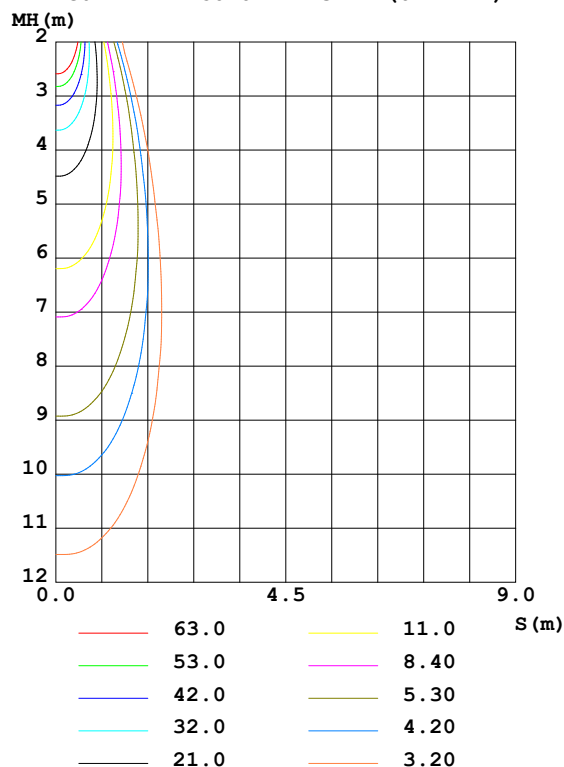
Test:U:220.7V I:0.0343A P:3.333W PF:0.4398 Freq:59.98Hz Lamp Flux:134.26x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.: P-C201LED-3W3033-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 40.28 lm/W			
MODEL	OS 3030	I _{max} (cd)	436.2	S/MH (C0/180)	0.49
NOMINAL POWER (W)	3W	LOR (%)	100.0	S/MH (C90/270)	0.54
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	134.26	η UP, DN (C0-180)	0.2, 45.7
NOMINAL FLUX (lm)	134.26	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 54.0
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220.2	η down (%)	99.7	CIBSE SHR MAX	0.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2020-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 6.900m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

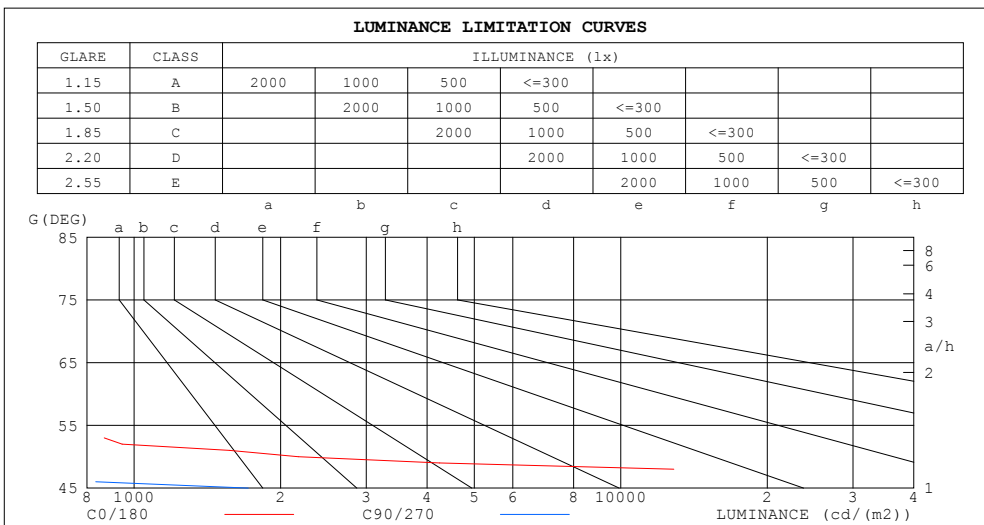
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	315.6	274.7	309.7	359.2					0- 10	35.26	35.26	26.3,26.3
20	117.0	87.18	113.8	148.4					10- 20	56.50	91.76	68.3,68.3
30	30.29	22.19	26.57	38.39					20- 30	28.49	120.3	89.6,89.6
40	11.85	7.432	7.488	11.63					30- 40	10.72	131.0	97.6,97.6
50	0.1398	0.0058	0.0058	0.1220					40- 50	2.853	133.8	99.7,99.7
60	0.0232	0	0	0.0348					50- 60	0.0229	133.9	99.7,99.7
70	0.0116	0	0	0.0116					60- 70	0.0085	133.9	99.7,99.7
80	0.0058	0	0	0.0058					70- 80	0.0043	133.9	99.7,99.7
90	0	0	0	0.0058					80- 90	0.0029	133.9	99.7,99.7
100	0	0	0	0					90-100	0.0001	133.9	99.7,99.7
110	0	0.0000	0	0					100-110	0.0002	133.9	99.7,99.7
120	0	0.0058	0.0116	0					110-120	0.0008	133.9	99.7,99.7
130	0	0.0290	0.0174	0					120-130	0.0068	133.9	99.7,99.7
140	0.0231	0.1104	0.0349	0.0058					130-140	0.0166	133.9	99.7,99.7
150	0.1915	0.3134	0.1509	0.0811					140-150	0.0632	134.0	99.8,99.8
160	0.4525	0.5398	0.3368	0.2264					150-160	0.1292	134.1	99.9,99.9
170	0.5646	0.5563	0.4875	0.3946					160-170	0.1267	134.2	100,100
180	0.5687	0.5629	0.5397	0.5223					170-180	0.0502	134.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2020-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:6.900m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.7V I:0.0343A P:3.333W PF:0.4398 Freq:59.98Hz Lamp Flux:134.26x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W3033-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	666	0
80	334	0
75	224	0
70	339	0
65	548	0
60	464	0
55	809	0
50	2176	90
45	95586	1716

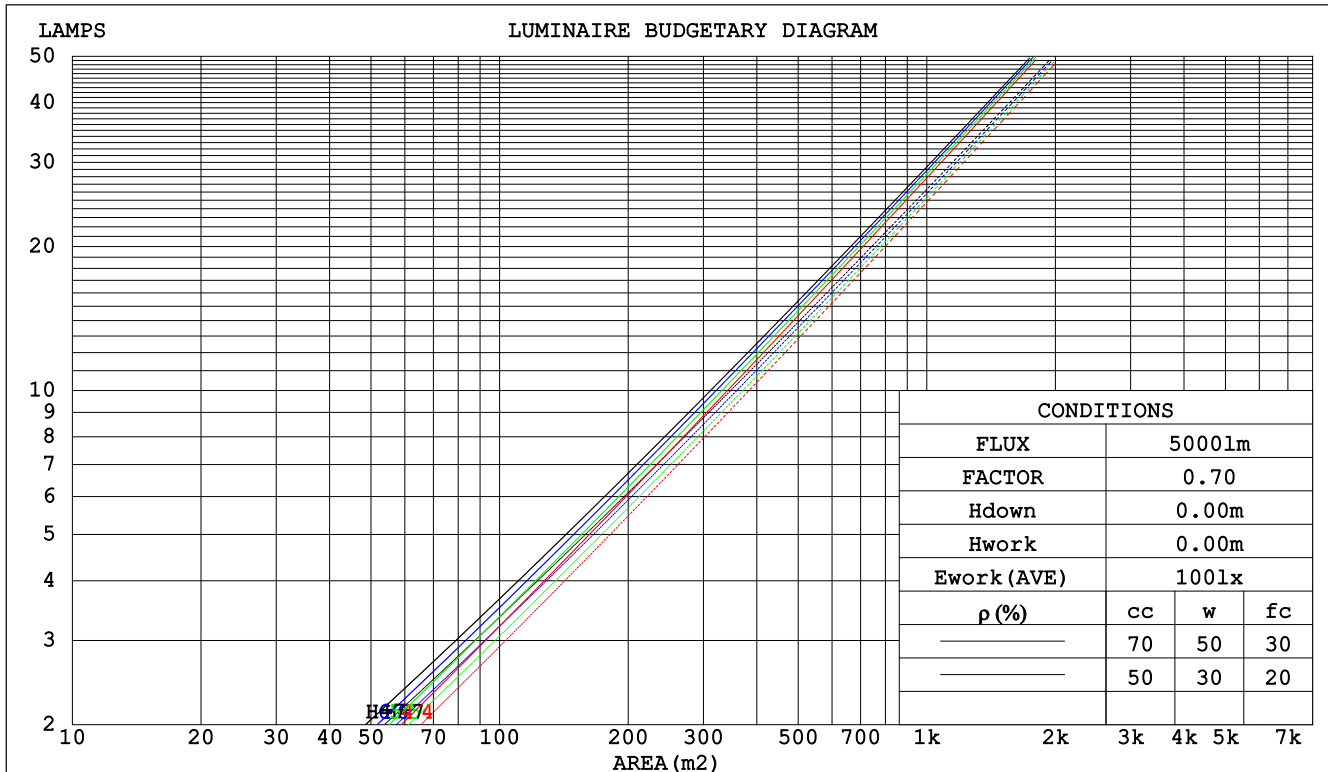
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.7V I:0.0343A P:3.333W PF:0.4398 Freq:59.98Hz Lamp Flux:134.26x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W3033-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	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	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.01	.99	.97	.99	.97	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.88
4.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.91	.89	.86	.90	.87	.85	.84
5.0	.92	.88	.84	.91	.87	.84	.90	.86	.83	.88	.85	.82	.87	.84	.82	.81
6.0	.88	.84	.80	.88	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.77
7.0	.85	.80	.77	.84	.80	.77	.83	.79	.76	.82	.79	.76	.81	.78	.76	.74
8.0	.82	.77	.74	.81	.77	.74	.80	.76	.73	.79	.76	.73	.78	.75	.73	.72
9.0	.79	.74	.71	.78	.74	.71	.77	.73	.71	.77	.73	.70	.76	.73	.70	.69
10.0	.76	.71	.68	.76	.71	.68	.75	.71	.68	.74	.71	.68	.73	.70	.68	.67



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2020-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:6.900m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.7V I:0.0343A P:3.333W PF:0.4398 Freq:59.98Hz Lamp Flux:134.26x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W3033-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.148	.084	.027	.141	.080	.026	.128	.074	.023	.117	.067	.022	.106	.061	.020		
2.0	.138	.076	.023	.133	.073	.023	.122	.068	.021	.113	.063	.020	.104	.059	.018		
3.0	.130	.069	.021	.125	.067	.020	.117	.063	.019	.108	.059	.018	.101	.056	.017		
4.0	.123	.064	.019	.119	.062	.018	.111	.059	.018	.104	.056	.017	.098	.053	.016		
5.0	.116	.059	.017	.113	.058	.017	.106	.055	.016	.100	.053	.016	.095	.051	.015		
6.0	.111	.055	.016	.108	.054	.016	.102	.052	.015	.097	.050	.015	.092	.048	.014		
7.0	.105	.052	.015	.103	.051	.015	.098	.050	.014	.093	.048	.014	.089	.046	.014		
8.0	.101	.049	.014	.099	.049	.014	.094	.047	.013	.090	.046	.013	.086	.044	.013		
9.0	.097	.047	.013	.095	.046	.013	.091	.045	.013	.087	.044	.012	.084	.042	.012		
10.0	.093	.044	.012	.091	.044	.012	.087	.043	.012	.084	.042	.012	.081	.041	.012		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.171	.160	.149	.147	.137	.129	.100	.094	.089	.058	.055	.052	.018	.018	.017	
2.0	.154	.135	.119	.132	.116	.103	.090	.080	.072	.052	.047	.042	.017	.015	.014	
3.0	.140	.116	.096	.120	.100	.084	.082	.069	.059	.048	.040	.035	.015	.013	.011	
4.0	.128	.100	.079	.110	.087	.069	.076	.060	.049	.044	.035	.029	.014	.012	.009	
5.0	.118	.088	.066	.101	.076	.058	.070	.053	.041	.040	.031	.024	.013	.010	.008	
6.0	.110	.079	.056	.094	.068	.049	.065	.048	.035	.038	.028	.021	.012	.009	.007	
7.0	.102	.071	.048	.088	.061	.042	.061	.043	.030	.035	.025	.018	.011	.008	.006	
8.0	.096	.064	.042	.083	.056	.036	.057	.039	.026	.033	.023	.015	.011	.008	.005	
9.0	.091	.059	.037	.078	.051	.032	.054	.036	.023	.032	.021	.014	.010	.007	.004	
10.0	.086	.054	.032	.074	.047	.028	.052	.033	.020	.030	.019	.012	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.7V I:0.0343A P:3.333W PF:0.4398 Freq:59.98Hz Lamp Flux:134.26x1 lm											
NAME: C201LED					TYPE:			WEIGHT:			
SPEC.:P-C201LED-3W3033-OS7003R90-LDY700					DIM.:			SERIAL No.:			
MFR.: CETTIGA					SUR.:			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	26.4	27.1	26.6	27.2	27.4	24.8	25.5	25.0	25.7	25.8	
	3H	26.2	26.9	26.4	27.1	27.3	24.6	25.3	24.9	25.5	25.7
	4H	26.1	26.8	26.4	27.0	27.2	24.5	25.2	24.8	25.4	25.6
	6H	26.0	26.6	26.3	26.9	27.1	24.5	25.1	24.7	25.3	25.5
	8H	26.0	26.6	26.3	26.8	27.1	24.4	25.0	24.7	25.2	25.5
12H	25.9	26.5	26.3	26.8	27.0	24.4	24.9	24.7	25.2	25.5	
4H	2H	26.1	26.8	26.4	27.0	27.2	24.5	25.2	24.8	25.4	25.6
	3H	25.9	26.5	26.3	26.8	27.0	24.4	24.9	24.7	25.2	25.5
	4H	25.8	26.4	26.2	26.7	27.0	24.3	24.8	24.6	25.1	25.4
	6H	25.7	26.2	26.1	26.5	26.9	24.2	24.6	24.5	24.9	25.3
	8H	25.7	26.1	26.1	26.5	26.8	24.1	24.5	24.5	24.9	25.2
12H	25.6	26.0	26.0	26.4	26.8	24.1	24.4	24.5	24.8	25.2	
8H	4H	25.7	26.1	26.1	26.5	26.8	24.1	24.5	24.5	24.9	25.2
	6H	25.6	25.9	26.0	26.3	26.7	24.0	24.3	24.4	24.7	25.2
	8H	25.5	25.8	26.0	26.2	26.7	23.9	24.2	24.4	24.7	25.1
	12H	25.5	25.7	25.9	26.2	26.6	23.9	24.1	24.3	24.6	25.1
	12H	4H	25.6	26.0	26.0	26.4	26.8	24.1	24.4	24.5	24.8
6H	25.5	25.8	26.0	26.2	26.7	23.9	24.2	24.4	24.7	25.1	
8H	25.5	25.7	25.9	26.2	26.6	23.9	24.1	24.3	24.6	25.1	
Variations with the observer position at spacings:											
S = 1.0H	+ 3.4 / -30.0					+ 2.9 / -35.6					
1.5H	+ 5.3 / -29.6					+ 5.5 / -35.4					
2.0H	+ 9.1 / -26.4					+ 9.5 / -20.5					

CIE Pub.117, 134.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -7.0)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.7V I:0.0343A P:3.333W PF:0.4398 Freq:59.98Hz Lamp Flux:134.26x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W3033-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

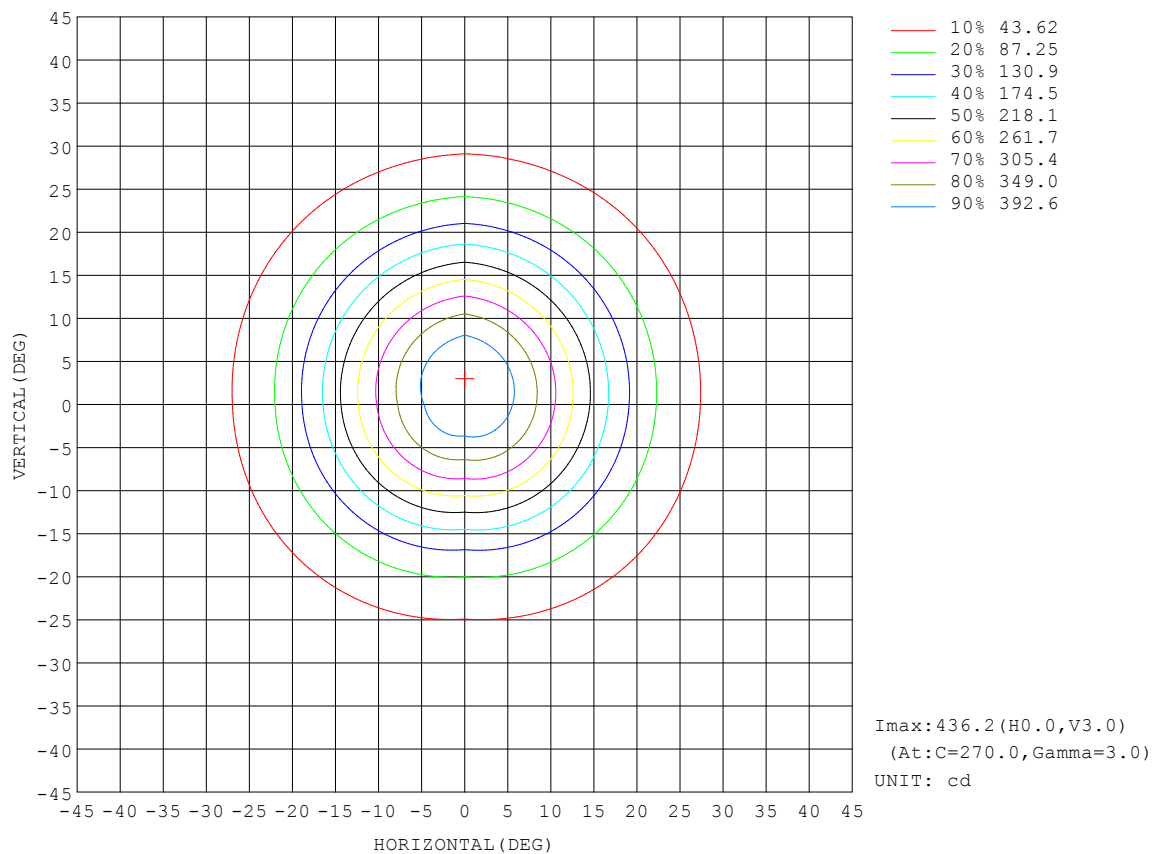
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	90	84	81	89	84	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	93	100	96	92	99	95	92	88
1.25	105	100	97	104	99	96	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	108	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.7V I:0.0343A P:3.333W PF:0.4398 Freq:59.98Hz Lamp Flux:134.26x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.: P-C201LED-3W3033-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:



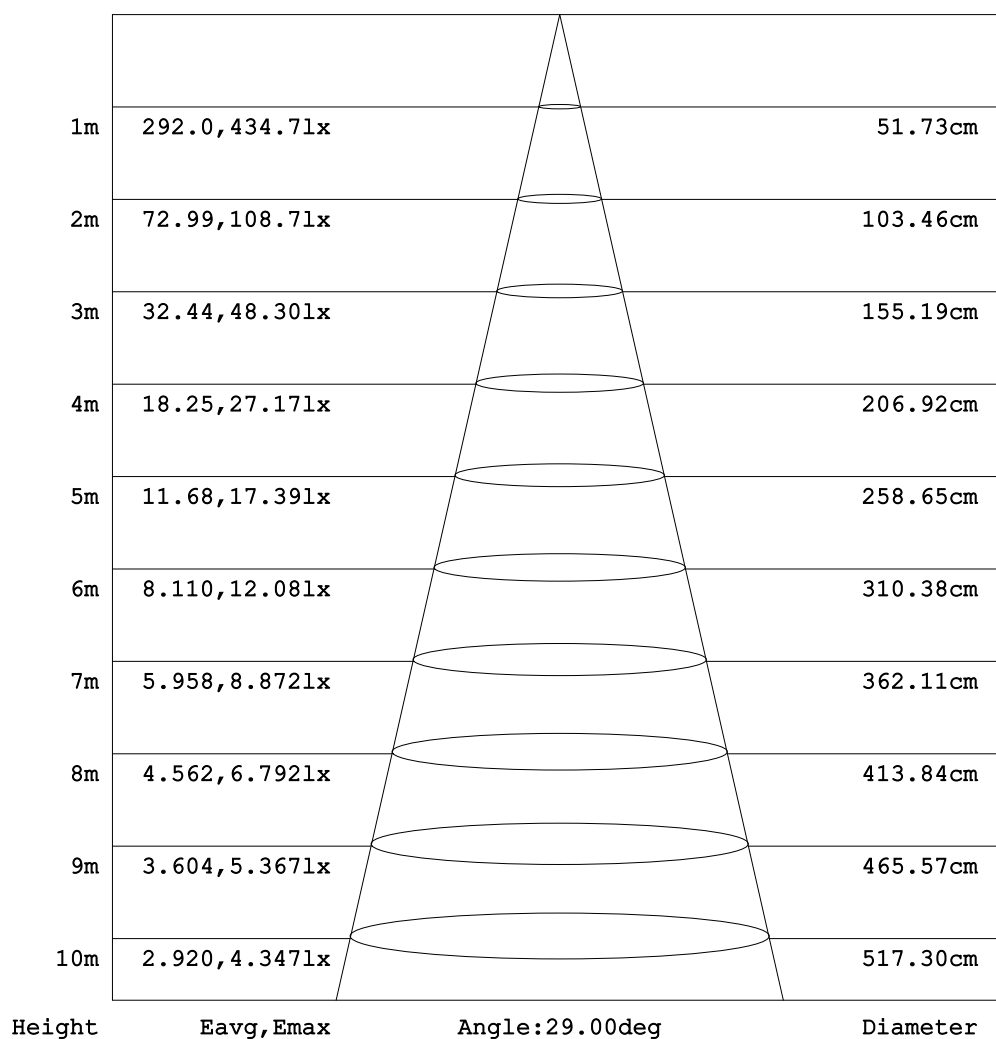
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2020-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 6.900m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.7V I:0.0343A P:3.333W PF:0.4398 Freq:59.98Hz Lamp Flux:134.26x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W3033-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

Flux out:65.85 lm



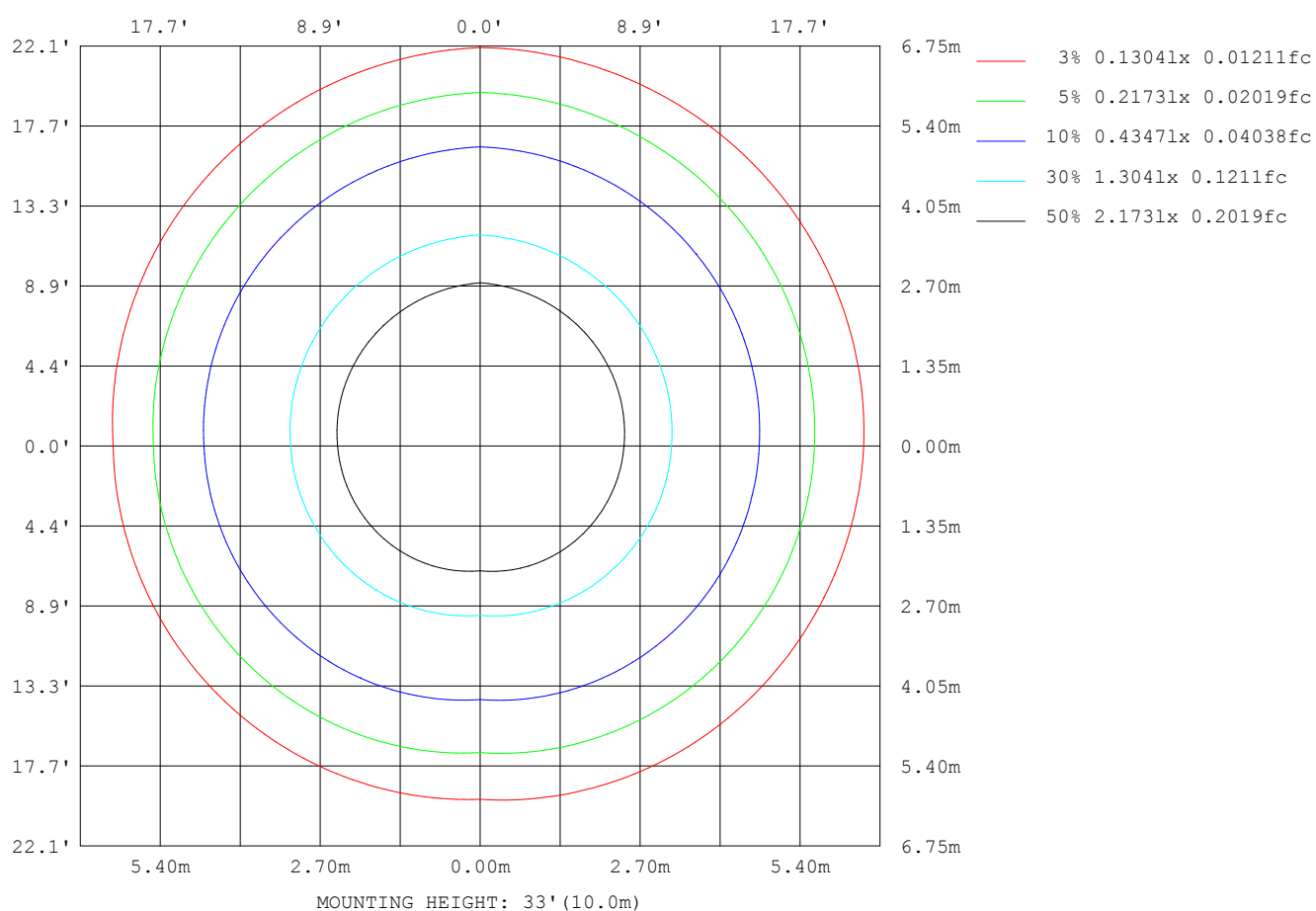
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Xie Bi
 Test Date: 2020-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 6.900m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.7V I:0.0343A P:3.333W PF:0.4398 Freq:59.98Hz Lamp Flux:134.26x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W3033-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Xie Bi
 Test Date: 2020-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 6.900m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:220.7V I:0.0343A P:3.333W PF:0.4398 Freq:59.98Hz Lamp Flux:134.26x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W3033-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

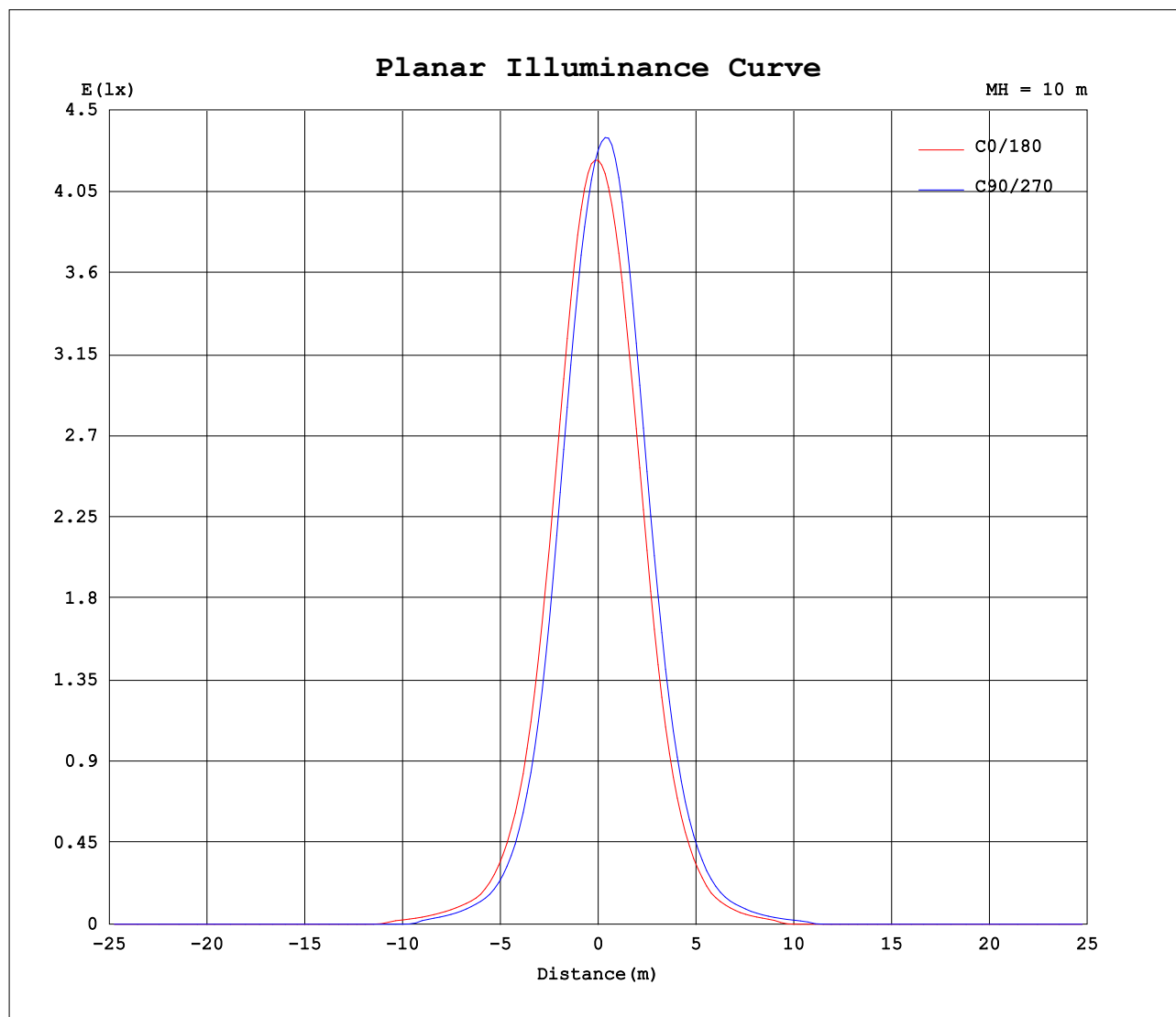
AvgL	cd/m2
L_0~180 (65) av	274
L_0~180 (75) av	112
L_0~180 (85) av	333
L_90~270 (65) av	206
L_90~270 (75) av	336
L_90~270 (85) av	333
L_45 (65) av	229
L_45 (75) av	259
L_45 (85) av	333

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2020-07-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 6.900m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.0343A P:3.333W PF:0.4398 Freq:59.98Hz Lamp Flux:134.26x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W3033-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	422	428	422	428															
5	399	374	389	428															
10	316	275	310	359															
15	209	164	204	251															
20	117	87.2	114	148															
25	60.2	43.0	58.1	77.5															
30	30.3	22.2	26.6	38.4															
35	18.7	13.2	13.9	20.3															
40	11.9	7.43	7.49	11.6															
45	6.76	0.12	0.12	6.33															
50	0.14	0.01	0.01	0.12															
55	0.05	0.00	0.00	0.05															
60	0.02	0.00	0.00	0.03															
65	0.02	0.00	0.00	0.02															
70	0.01	0.00	0.00	0.01															
75	0.01	0.00	0.00	0.02															
80	0.01	0.00	0.00	0.01															
85	0.01	0.00	0.00	0.01															
90	0.00	0.00	0.00	0.01															
95	0.00	0.00	0.00	0.00															
100	0.00	0.00	0.00	0.00															
105	0.00	0.00	0.00	0.00															
110	0.00	0.00	0.00	0.00															
115	0.00	0.00	0.00	0.00															
120	0.00	0.01	0.01	0.00															
125	0.00	0.02	0.01	0.00															
130	0.00	0.03	0.02	0.00															
135	0.00	0.06	0.02	0.00															
140	0.02	0.11	0.03	0.01															
145	0.12	0.19	0.08	0.01															
150	0.19	0.31	0.15	0.08															
155	0.31	0.43	0.23	0.15															
160	0.45	0.54	0.34	0.23															
165	0.52	0.55	0.42	0.33															
170	0.56	0.56	0.49	0.39															
175	0.57	0.56	0.52	0.48															
180	0.57	0.56	0.54	0.52															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.900m [K=1.0000]
Remarks: