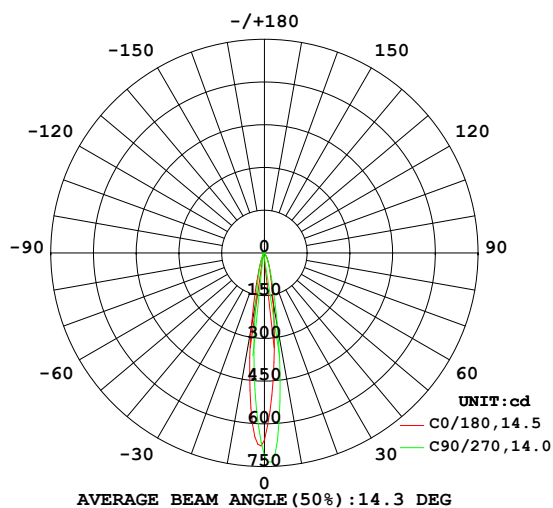


LUMINAIRE PHOTOMETRIC TEST REPORT

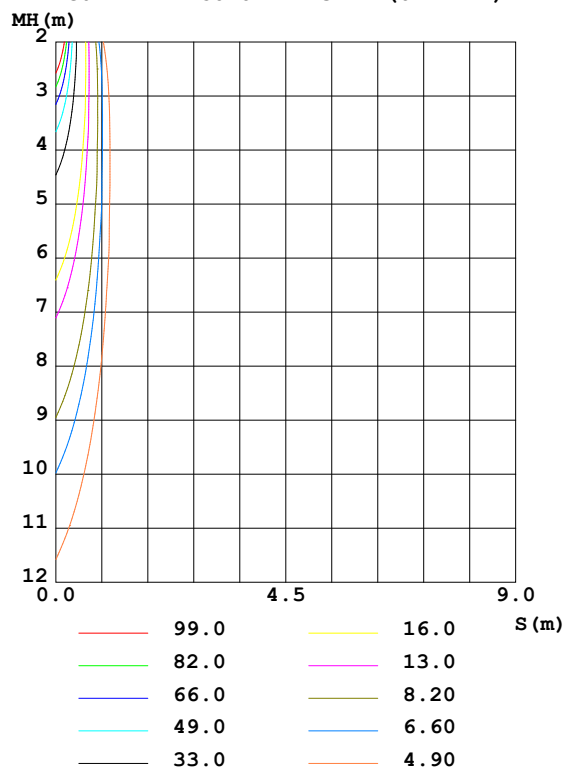
Test:U:220.7V I:0.0349A P:3.392W PF:0.4403 Freq:59.98Hz Lamp Flux:79.2995x1 lm					
NAME: C201LED		TYPE:		WEIGHT:	
SPEC.:P-C201LED-3W2715-OS7003R90-LDY700		DIM.:		SERIAL No.:	
MFR.: CETTIGA		SUR.:0.0001		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 23.38 lm/W
MODEL	OS 3030	I _{max} (cd)	734.6	S/MH (C0/180)	0.30	
NOMINAL POWER (W)	3W	LOR (%)	100.0	S/MH (C90/270)	0.21	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	79.300	η UP, DN (C0-180)	0.2, 50.3	
NOMINAL FLUX (lm)	79.2995	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 49.4	
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	220.2	η down (%)	99.7	CIBSE SHR MAX	1.00	

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:

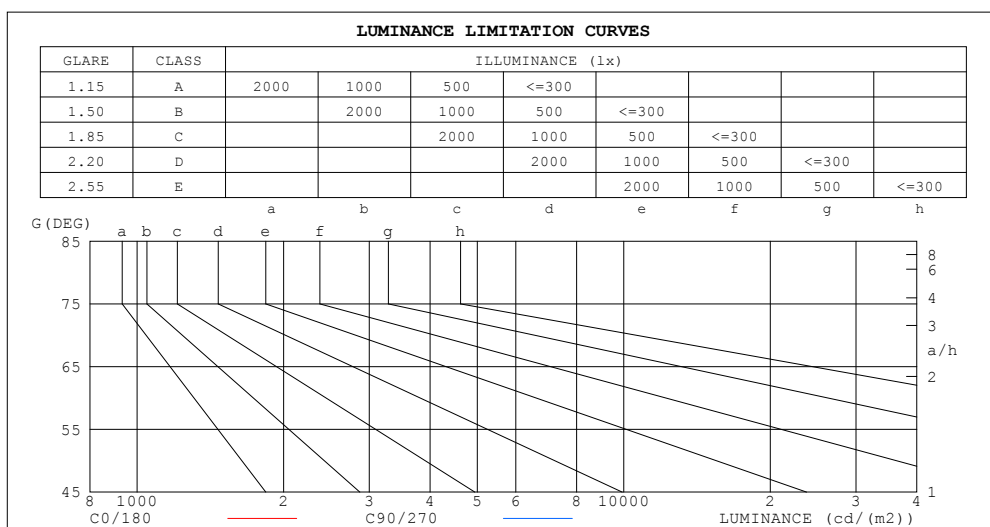
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	178.3	265.5	266.0	179.2					0- 10	37.37	37.37	47.1,47.1
20	47.12	48.05	46.29	43.86					10- 20	27.61	64.98	81.9,81.9
30	10.49	12.22	11.89	11.12					20- 30	11.63	76.61	96.6,96.6
40	0.8363	0.8122	0.9628	0.7548					30- 40	2.084	78.70	99.2,99.2
50	0.0697	0.0694	0.1845	0.0755					40- 50	0.3662	79.06	99.7,99.7
60	0.0116	0	0	0.0116					50- 60	0.0231	79.08	99.7,99.7
70	0	0	0	0					60- 70	0.0027	79.09	99.7,99.7
80	0	0	0	0					70- 80	0	79.09	99.7,99.7
90	0	0	0	0					80- 90	0	79.09	99.7,99.7
100	0	0	0	0					90-100	0	79.09	99.7,99.7
110	0	0	0	0					100-110	0	79.09	99.7,99.7
120	0	0	0	0					110-120	0	79.09	99.7,99.7
130	0	0.0000	0	0					120-130	0.0001	79.09	99.7,99.7
140	0	0.0290	0.0116	0					130-140	0.0024	79.09	99.7,99.7
150	0.0926	0.1045	0.0523	0.0116					140-150	0.0177	79.11	99.8,99.8
160	0.3423	0.3659	0.1918	0.1857					150-160	0.0689	79.18	99.8,99.8
170	0.3719	0.3888	0.2815	0.3243					160-170	0.0913	79.27	100,100
180	0.3192	0.3134	0.3076	0.3192					170-180	0.0316	79.30	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:0.0349A P:3.392W PF:0.4403 Freq:59.98Hz Lamp Flux:79.2995x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W2715-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0001	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	0
65	14	0
60	23	0
55	51	20
50	108	108
45	716	673

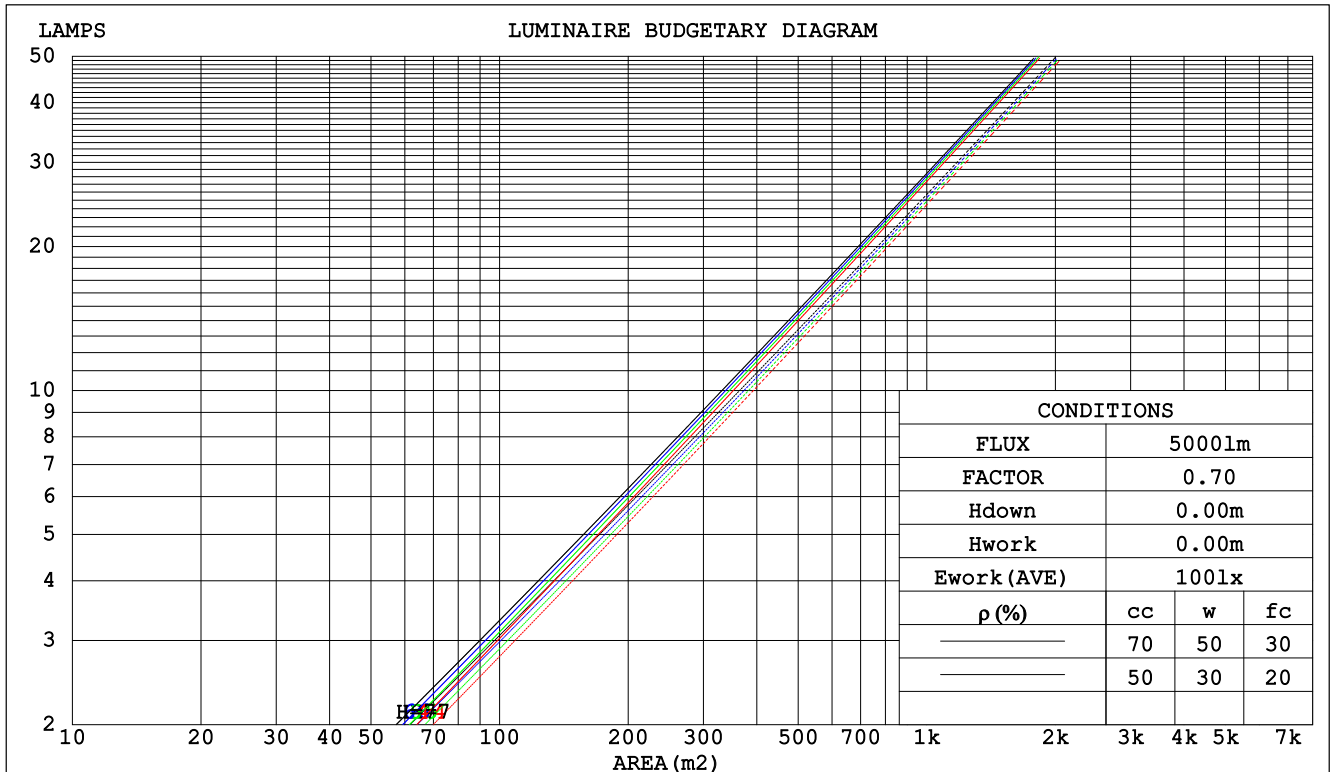
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-03

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:0.0349A P:3.392W PF:0.4403 Freq:59.98Hz Lamp Flux:79.2995x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W2715-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0001	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)															
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	1.13	1.12	1.10	1.11	1.10	1.08	1.07	1.06	1.05	1.03	1.03	1.02	1.00	.99	.99	.97
2.0	1.08	1.06	1.03	1.07	1.04	1.02	1.04	1.02	.00	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.01	.98	1.03	1.00	.98	1.01	.98	.96	.98	.96	.95	.96	.95	.93	.92
4.0	1.01	.97	.94	.00	.96	.94	.98	.95	.93	.96	.94	.92	.94	.92	.91	.90
5.0	.98	.94	.91	.97	.93	.91	.95	.92	.90	.94	.91	.89	.92	.90	.88	.87
6.0	.95	.91	.88	.94	.90	.88	.93	.90	.87	.92	.89	.87	.90	.88	.86	.85
7.0	.92	.88	.86	.92	.88	.85	.90	.87	.85	.89	.87	.85	.89	.86	.84	.83
8.0	.90	.86	.83	.89	.86	.83	.88	.85	.83	.88	.85	.83	.87	.84	.82	.81
9.0	.88	.84	.81	.87	.84	.81	.86	.83	.81	.86	.83	.81	.85	.82	.81	.80
10.0	.86	.82	.80	.85	.82	.80	.85	.81	.79	.84	.81	.79	.83	.81	.79	.78



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:0.0349A P:3.392W PF:0.4403 Freq:59.98Hz Lamp Flux:79.2995x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W2715-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0001	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 Coeffcients(WEC)										
0.0																	
1.0	.128	.073	.023	.121	.069	.022	.109	.063	.020	.097	.056	.018	.087	.050	.016		
2.0	.118	.065	.020	.112	.062	.019	.102	.057	.018	.093	.052	.016	.084	.048	.015		
3.0	.109	.058	.017	.105	.056	.017	.096	.052	.016	.088	.048	.015	.081	.045	.014		
4.0	.102	.053	.016	.098	.051	.015	.091	.048	.014	.084	.045	.014	.078	.042	.013		
5.0	.096	.049	.014	.092	.047	.014	.086	.045	.013	.081	.043	.013	.075	.040	.012		
6.0	.090	.045	.013	.087	.044	.013	.082	.042	.012	.077	.040	.012	.073	.038	.011		
7.0	.085	.042	.012	.083	.041	.012	.079	.040	.011	.074	.038	.011	.070	.037	.011		
8.0	.081	.040	.011	.079	.039	.011	.075	.038	.011	.071	.036	.010	.068	.035	.010		
9.0	.077	.037	.010	.076	.037	.010	.072	.036	.010	.069	.035	.010	.066	.033	.010		
10.0	.074	.035	.010	.072	.035	.010	.069	.034	.010	.066	.033	.009	.064	.032	.009		

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	.170	.160	.151	.145	.137	.130	.099	.094	.090	.057	.055	.052	.018	.018	.017	
2.0	.151	.135	.121	.129	.116	.105	.089	.080	.073	.051	.047	.043	.016	.015	.014	
3.0	.136	.115	.099	.116	.099	.086	.080	.069	.060	.046	.040	.036	.015	.013	.012	
4.0	.123	.100	.082	.105	.086	.072	.072	.060	.050	.042	.035	.030	.013	.011	.010	
5.0	.112	.087	.069	.096	.076	.060	.066	.053	.043	.038	.031	.025	.012	.010	.008	
6.0	.103	.077	.059	.088	.067	.051	.061	.047	.036	.035	.028	.022	.011	.009	.007	
7.0	.095	.069	.051	.081	.060	.044	.056	.042	.031	.033	.025	.019	.011	.008	.006	
8.0	.088	.062	.044	.076	.054	.038	.052	.038	.027	.030	.022	.016	.010	.007	.005	
9.0	.082	.056	.039	.071	.049	.034	.049	.034	.024	.029	.020	.014	.009	.007	.005	
10.0	.077	.051	.034	.066	.045	.030	.046	.031	.021	.027	.019	.013	.009	.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:0.0349A P:3.392W PF:0.4403 Freq:59.98Hz Lamp Flux:79.2995x1 lm											
NAME: C201LED						TYPE:			WEIGHT:		
SPEC.:P-C201LED-3W2715-OS7003R90-LDY700						DIM.:			SERIAL No.:		
MFR.: CETTIGA						SUR.:0.0001			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		7.6	8.2	7.8	8.3	8.5	9.9	10.5	10.1	10.7	10.8
	3H	7.4	8.0	7.7	8.2	8.3	9.8	10.3	10.0	10.5	10.7
	4H	7.3	7.9	7.6	8.1	8.3	9.7	10.2	10.0	10.4	10.6
	6H	7.3	7.8	7.5	8.0	8.2	9.6	10.1	9.9	10.3	10.6
	8H	7.2	7.7	7.5	7.9	8.2	9.6	10.0	9.9	10.3	10.5
	12H	7.2	7.6	7.5	7.9	8.2	9.5	10.0	9.8	10.2	10.5
4H	2H	7.3	7.9	7.6	8.1	8.3	9.7	10.2	10.0	10.4	10.6
	3H	7.2	7.6	7.5	7.9	8.2	9.5	10.0	9.8	10.2	10.5
	4H	7.1	7.5	7.4	7.8	8.1	9.4	9.9	9.8	10.1	10.4
	6H	7.0	7.3	7.3	7.7	8.0	9.3	9.7	9.7	10.0	10.4
	8H	6.9	7.3	7.3	7.6	8.0	9.3	9.6	9.7	10.0	10.3
	12H	6.9	7.2	7.3	7.6	7.9	9.2	9.5	9.6	9.9	10.3
8H	4H	6.9	7.3	7.3	7.6	8.0	9.3	9.6	9.7	10.0	10.3
	6H	6.8	7.1	7.2	7.5	7.9	9.1	9.4	9.6	9.8	10.3
	8H	6.7	7.0	7.2	7.4	7.9	9.1	9.3	9.5	9.8	10.2
	12H	6.7	6.9	7.1	7.3	7.8	9.0	9.2	9.5	9.7	10.2
12H	4H	6.9	7.2	7.3	7.6	7.9	9.2	9.5	9.6	9.9	10.3
	6H	6.7	7.0	7.2	7.4	7.9	9.1	9.3	9.5	9.8	10.2
	8H	6.7	6.9	7.1	7.3	7.8	9.0	9.2	9.5	9.7	10.2
Variations with the observer position at spacings:											
S = 1.0H	+ 2.7 / -20.6					+ 3.9 / -32.6					
1.5H	+ 4.5 / -16.9					+ 5.9 / -20.7					
2.0H	+ 8.6 / -20.5					+ 7.8 / - 1.\$					

CIE Pub.117, 79.30 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -8.8)

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:0.0349A P:3.392W PF:0.4403 Freq:59.98Hz Lamp Flux:79.2995x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W2715-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0001	Shielding Angle:

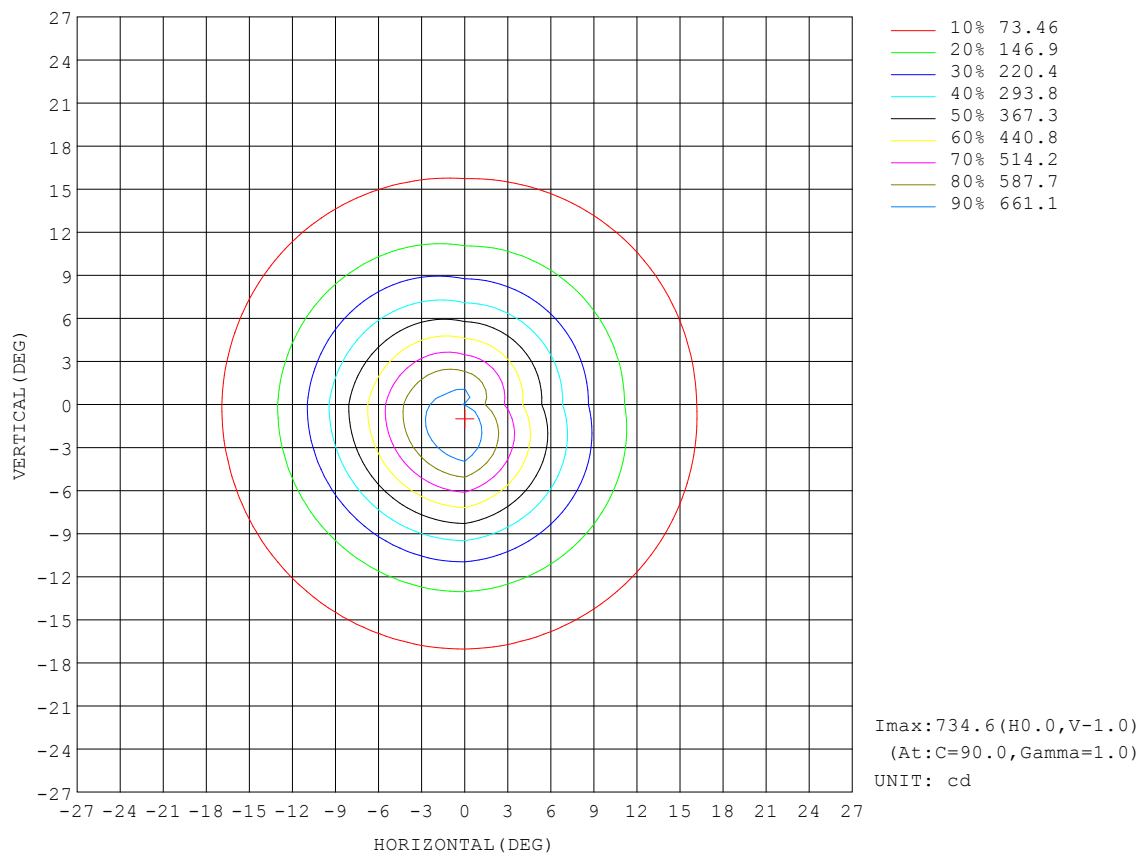
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	82	91	85	82	90	85	82	79
0.80	98	93	90	97	93	89	96	92	89	86
1.00	102	97	94	101	96	93	99	96	93	89
1.25	105	101	98	104	100	97	102	99	96	93
1.50	108	103	101	106	103	100	104	101	99	95
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	110	107	111	108	106	108	105	104	98
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
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:0.0349A P:3.392W PF:0.4403 Freq:59.98Hz Lamp Flux:79.2995x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.: P-C201LED-3W2715-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0001	Shielding Angle:

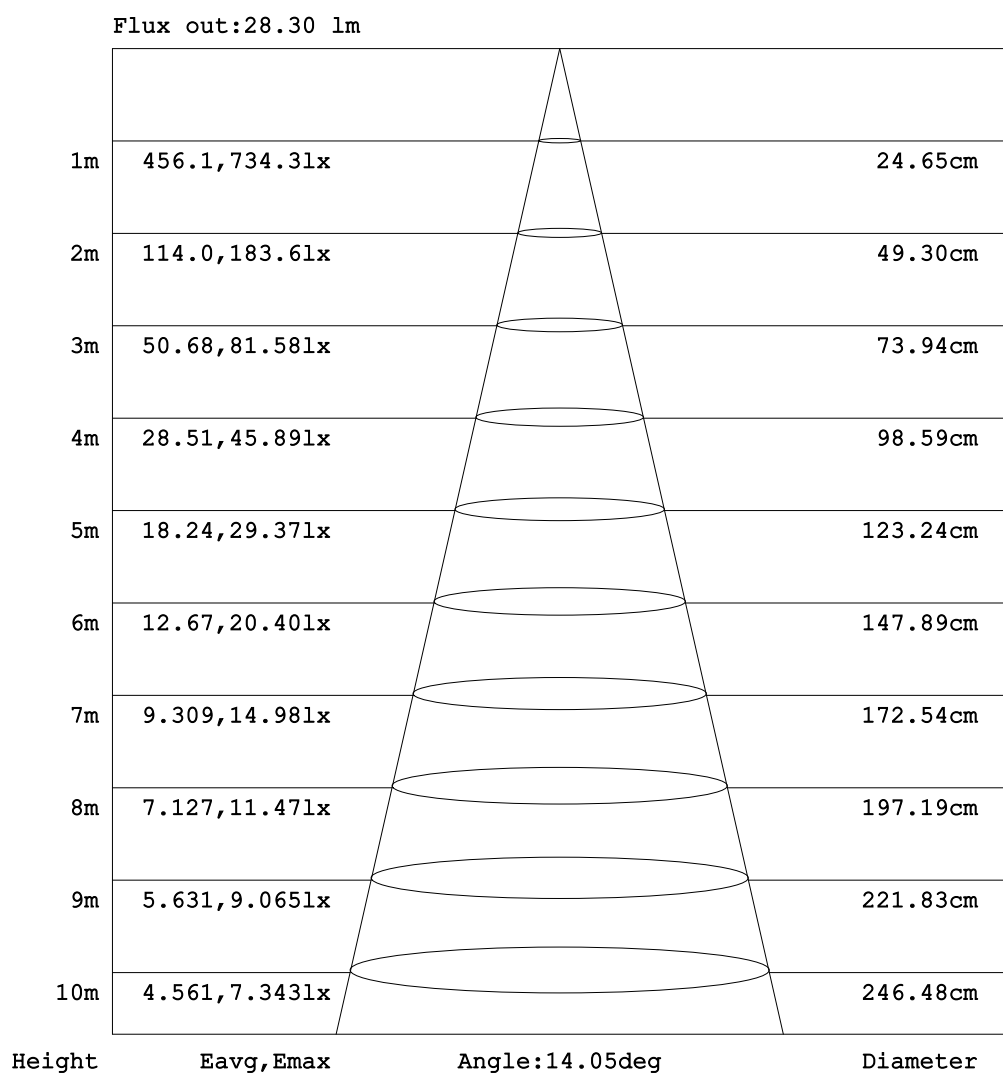


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-07-03

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:0.0349A P:3.392W PF:0.4403 Freq:59.98Hz Lamp Flux:79.2995x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W2715-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0001	Shielding Angle:



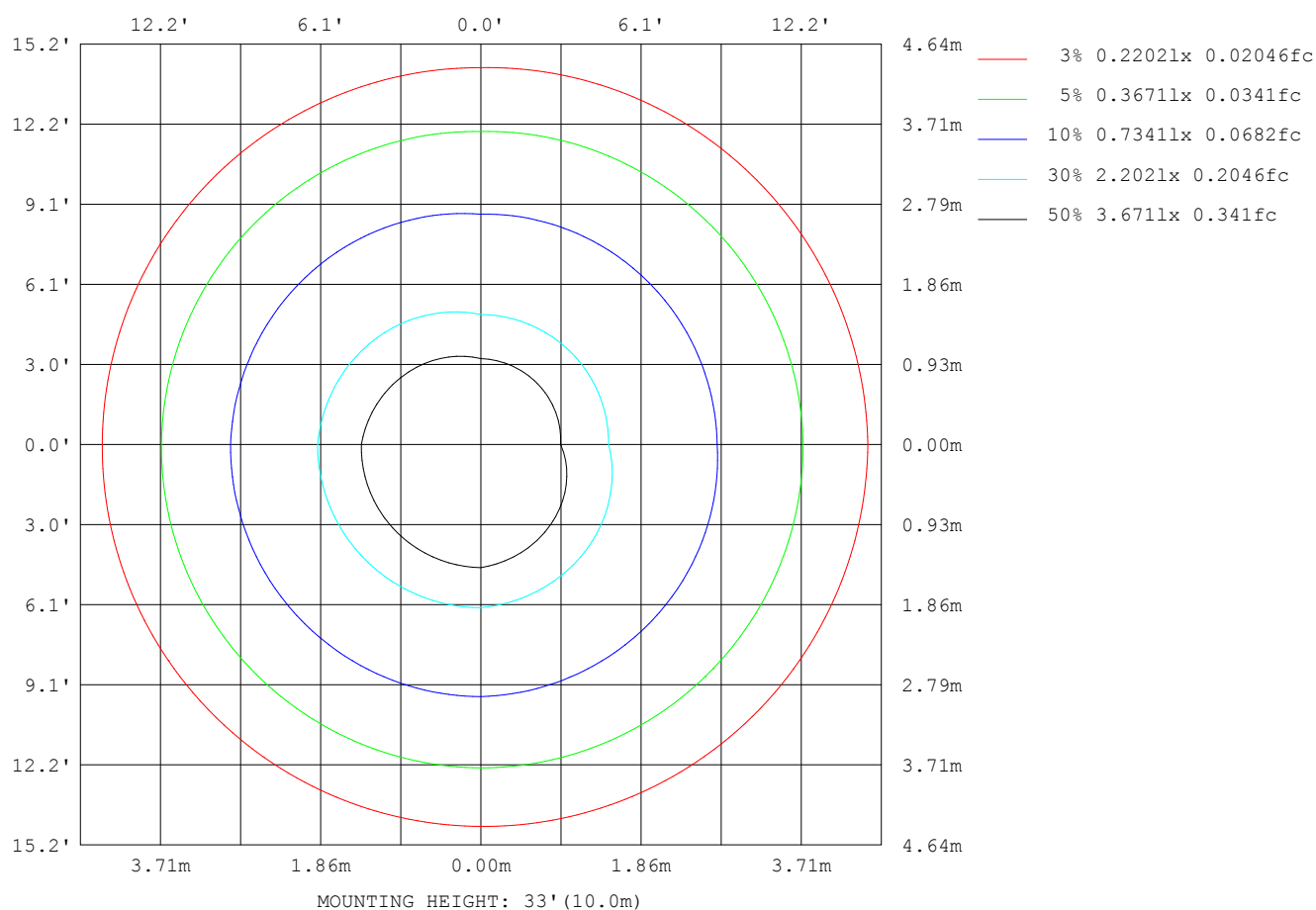
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 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:0.0349A P:3.392W PF:0.4403 Freq:59.98Hz Lamp Flux:79.2995x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.: P-C201LED-3W2715-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0001	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:0.0349A P:3.392W PF:0.4403 Freq:59.98Hz Lamp Flux:79.2995x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W2715-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0001	Shielding Angle:

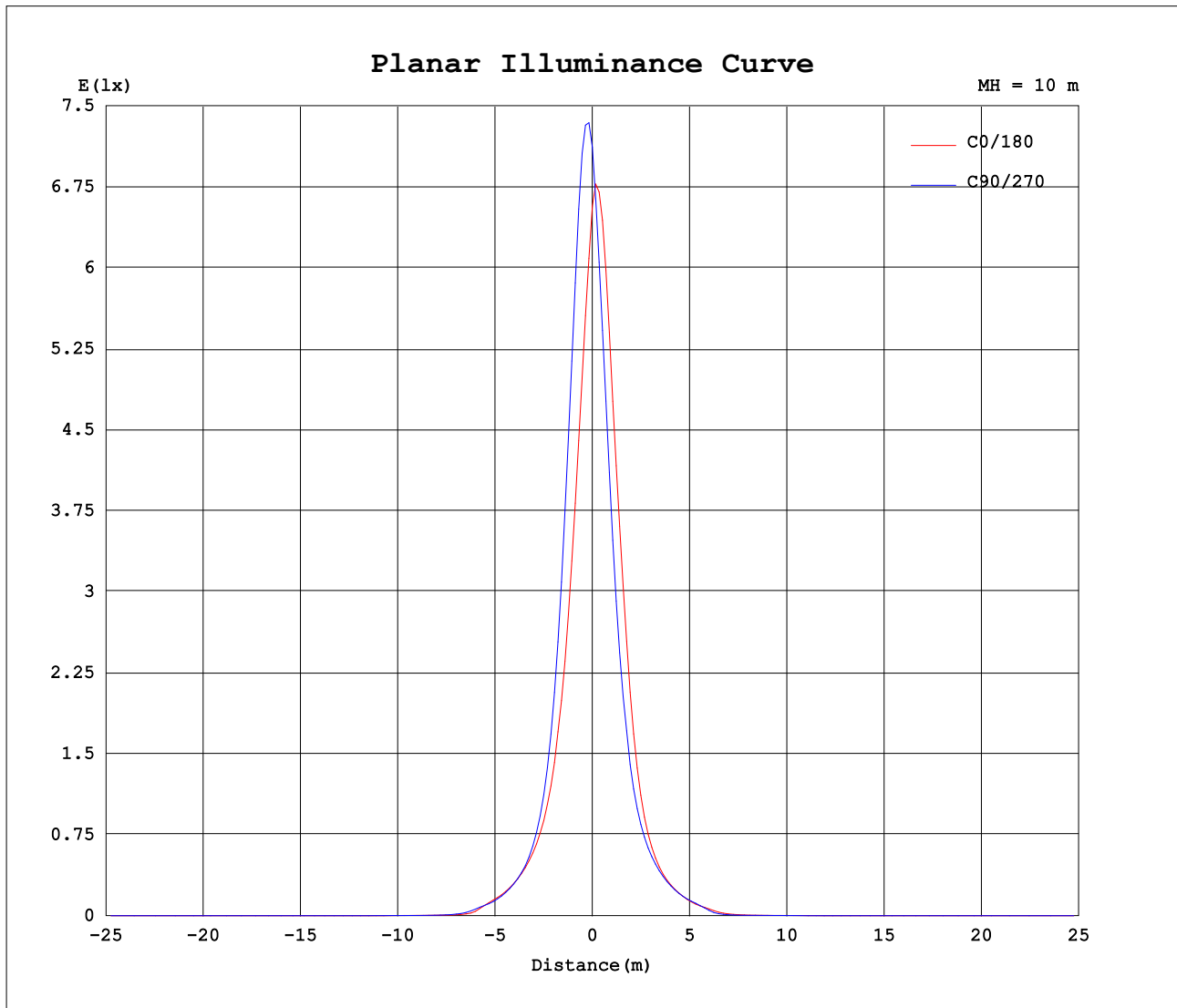
AvgL	cd/m2
L_0~180 (65) av	7
L_0~180 (75) av	0
L_0~180 (85) av	0
L_90~270 (65) av	7
L_90~270 (75) av	0
L_90~270 (85) av	0
L_45 (65) av	7
L_45 (75) av	0
L_45 (85) av	0

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:0.0349A P:3.392W PF:0.4403 Freq:59.98Hz Lamp Flux:79.2995x1 lm		
NAME: C201LED	TYPE:	WEIGHT:
SPEC.:P-C201LED-3W2715-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0001	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	657	711	657	711															
5	386	593	546	415															
10	178	266	266	179															
15	85.1	103	101	80.7															
20	47.1	48.0	46.3	43.9															
25	26.0	24.5	24.0	24.1															
30	10.5	12.2	11.9	11.1															
35	1.55	2.71	3.00	1.64															
40	0.84	0.81	0.96	0.75															
45	0.51	0.48	0.58	0.50															
50	0.07	0.07	0.18	0.08															
55	0.03	0.01	0.01	0.03															
60	0.01	0.00	0.00	0.01															
65	0.01	0.00	0.00	0.01															
70	0.00	0.00	0.00	0.00															
75	0.00	0.00	0.00	0.00															
80	0.00	0.00	0.00	0.00															
85	0.00	0.00	0.00	0.00															
90	0.00	0.00	0.00	0.00															
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	0.00	0.00	0.00															
125	0.00	0.00	0.00	0.00															
130	0.00	0.00	0.00	0.00															
135	0.00	0.01	0.01	0.00															
140	0.00	0.03	0.01	0.00															
145	0.01	0.05	0.03	0.00															
150	0.09	0.10	0.05	0.01															
155	0.19	0.21	0.10	0.10															
160	0.34	0.37	0.19	0.19															
165	0.38	0.39	0.26	0.29															
170	0.37	0.39	0.28	0.32															
175	0.34	0.32	0.30	0.32															
180	0.32	0.31	0.31	0.32															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
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γ Range: 0 - 180DEG
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
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 Remarks: