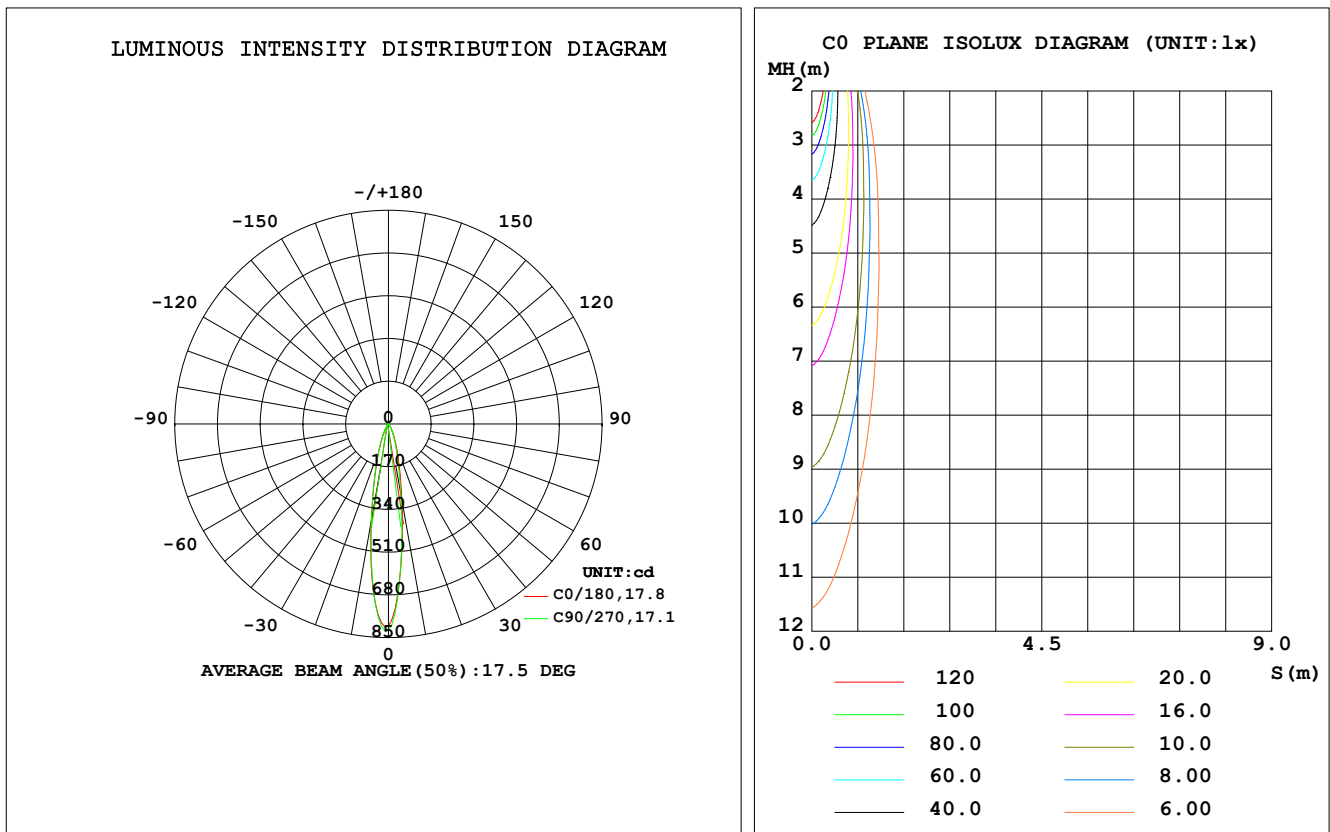


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.03V I:0.0324A P:3.1859W PF:0.4470 Freq:49.99Hz Lamp Flux:131.21x1 lm					
NAME: C282LED		TYPE:		WEIGHT:	
SPEC.:P-C282LED-3W3015-OS7003R90-LDY700		DIM.:		SERIAL No.:	
MFR.: CETTIGA		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 41.18 lm/W
MODEL	OS 3030	I _{max} (cd)	822.6	S/MH (C0/180)	0.34	
NOMINAL POWER (W)	3W	LOR (%)	100.0	S/MH (C90/270)	0.33	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	131.21	η UP, DN (C0-180)	0.2, 43.5	
NOMINAL FLUX (lm)	131.21	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 56.2	
LAMPS INSIDE	1	η up (%)	0.2	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	220.2	η down (%)	99.8	CIBSE SHR MAX	1.00	



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2021-03-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 6.810m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

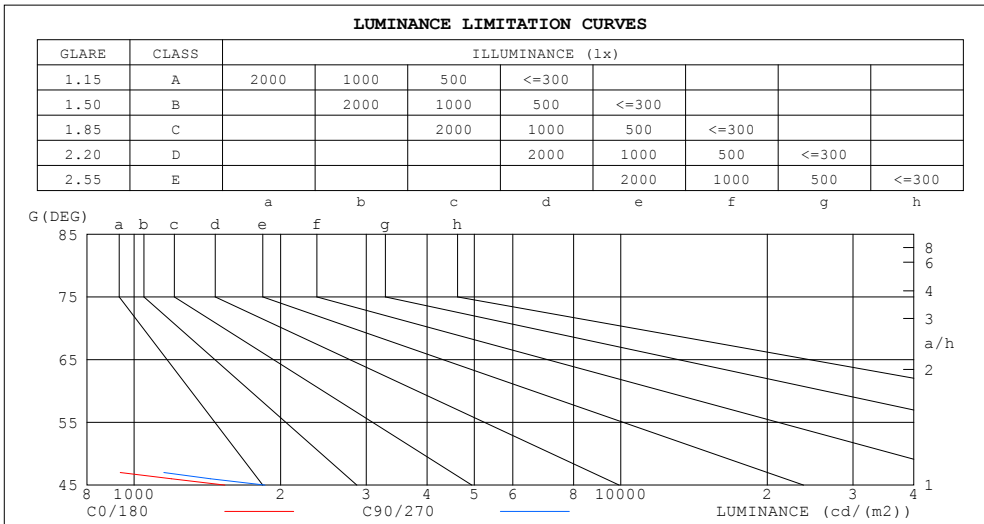
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	309.8	283.2	397.6	390.7					0- 10	50.05	50.05	38.1,38.1
20	87.26	76.36	107.4	111.4					10- 20	50.83	100.9	76.9,76.9
30	24.59	21.29	27.84	29.97					20- 30	23.98	124.9	95.2,95.2
40	1.047	1.222	1.520	1.219					30- 40	5.664	130.5	99.5,99.5
50	0.0702	0.0635	0.1520	0.0320					40- 50	0.3685	130.9	99.8,99.8
60	0	0	0	0					50- 60	0.0069	130.9	99.8,99.8
70	0	0	0	0					60- 70	0	130.9	99.8,99.8
80	0	0	0	0					70- 80	0	130.9	99.8,99.8
90	0	0	0	0					80- 90	0	130.9	99.8,99.8
100	0	0	0	0					90-100	0	130.9	99.8,99.8
110	0	0	0	0					100-110	0	130.9	99.8,99.8
120	0	0	0	0					110-120	0	130.9	99.8,99.8
130	0	0	0	0					120-130	0	130.9	99.8,99.8
140	0	0.0320	0.0001	0.0000					130-140	0.0018	130.9	99.8,99.8
150	0.1652	0.2229	0.0701	0					140-150	0.0274	130.9	99.8,99.8
160	0.4776	0.5384	0.2805	0.2277					150-160	0.1068	131.0	99.9,99.9
170	0.5922	0.5730	0.4903	0.4711					160-170	0.1310	131.2	100,100
180	0.4839	0.4967	0.4776	0.5030					170-180	0.0490	131.2	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:2021-03-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.03V I:0.0324A P:3.1859W PF:0.4470 Freq:49.99Hz Lamp Flux:131.21x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3015-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	0
65	0	0
60	0	0
55	0	0
50	364	329
45	1536	1857

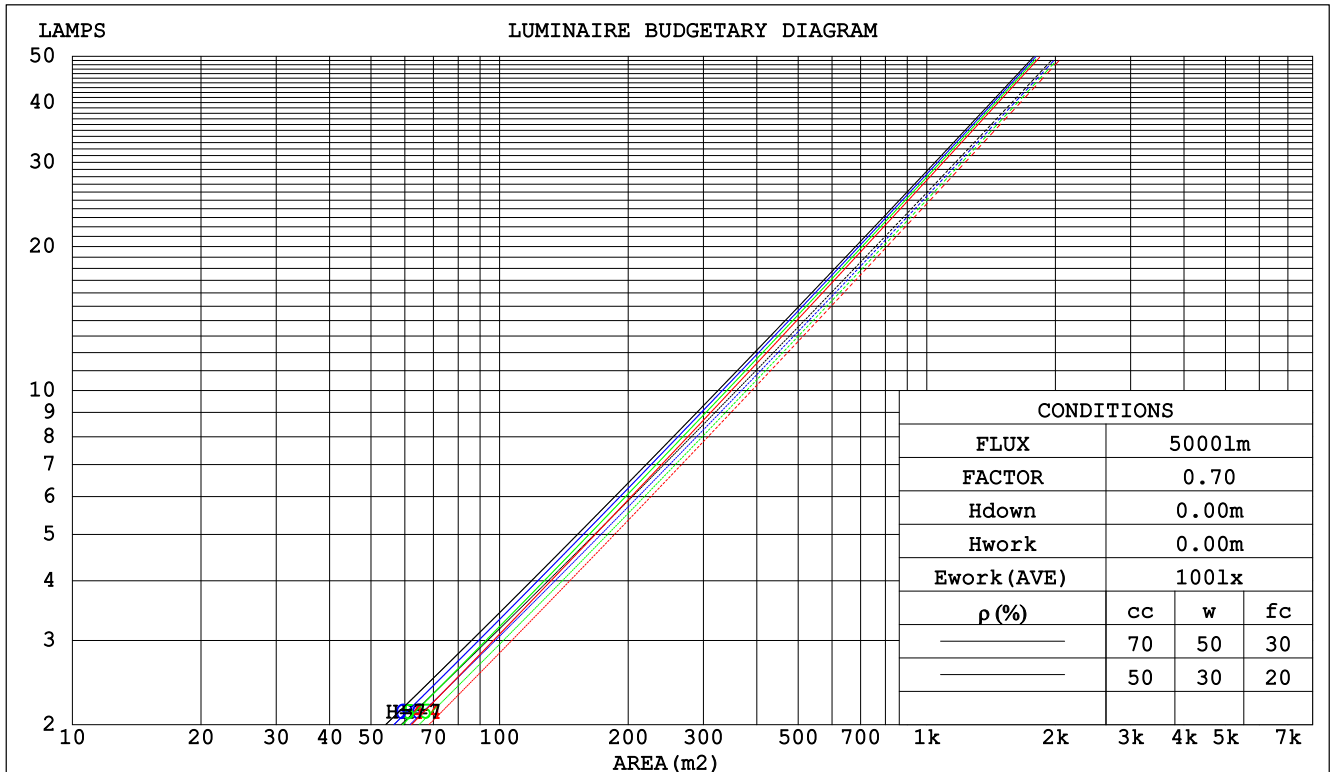
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2021-03-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:6.810m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.03V I:0.0324A P:3.1859W PF:0.4470 Freq:49.99Hz Lamp Flux:131.21x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3015-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	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	1.11	1.09	1.11	1.09	1.08	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.97
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	1.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.00	.97	1.02	.99	.96	.99	.97	.95	.97	.95	.93	.95	.93	.92	.90
4.0	.99	.95	.92	.98	.95	.92	.96	.93	.91	.94	.92	.90	.93	.90	.89	.88
5.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.92	.89	.87	.90	.88	.86	.85
6.0	.92	.88	.85	.92	.88	.85	.90	.87	.85	.89	.86	.84	.88	.85	.83	.82
7.0	.89	.85	.82	.89	.85	.82	.88	.84	.82	.87	.84	.81	.86	.83	.81	.80
8.0	.87	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.84	.81	.79	.78
9.0	.84	.80	.78	.84	.80	.77	.83	.80	.77	.82	.79	.77	.82	.79	.77	.76
10.0	.82	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.75	.80	.77	.75	.74



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2021-03-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.03V I:0.0324A P:3.1859W PF:0.4470 Freq:49.99Hz Lamp Flux:131.21x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3015-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
p _{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.135	.077	.024	.129	.073	.023	.116	.067	.021	.104	.060	.019	.094	.054	.018		
2.0	.125	.069	.021	.120	.066	.020	.109	.061	.019	.100	.056	.018	.091	.052	.016		
3.0	.117	.062	.019	.112	.060	.018	.104	.056	.017	.096	.052	.016	.088	.049	.015		
4.0	.109	.057	.017	.106	.055	.016	.098	.052	.016	.092	.049	.015	.085	.046	.014		
5.0	.103	.053	.015	.100	.051	.015	.094	.049	.014	.088	.046	.014	.083	.044	.013		
6.0	.098	.049	.014	.095	.048	.014	.090	.046	.013	.085	.044	.013	.080	.042	.012		
7.0	.093	.046	.013	.090	.045	.013	.086	.043	.012	.081	.042	.012	.077	.040	.012		
8.0	.089	.043	.012	.086	.043	.012	.082	.041	.012	.078	.040	.011	.075	.038	.011		
9.0	.085	.041	.011	.083	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011		
10.0	.081	.039	.011	.079	.038	.011	.076	.037	.011	.073	.036	.010	.070	.035	.010		

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.170	.160	.150	.146	.137	.129	.100	.094	.089	.057	.055	.052	.018	.018	.017	
2.0	.152	.135	.120	.130	.116	.104	.089	.080	.072	.051	.047	.042	.016	.015	.014	
3.0	.137	.115	.098	.117	.099	.085	.081	.069	.059	.047	.040	.035	.015	.013	.011	
4.0	.124	.100	.081	.107	.086	.070	.073	.060	.050	.042	.035	.029	.014	.011	.010	
5.0	.114	.087	.068	.098	.076	.059	.067	.053	.042	.039	.031	.025	.013	.010	.008	
6.0	.105	.077	.058	.090	.067	.050	.062	.047	.036	.036	.028	.021	.012	.009	.007	
7.0	.097	.069	.050	.084	.060	.043	.058	.042	.031	.034	.025	.018	.011	.008	.006	
8.0	.091	.062	.043	.078	.054	.037	.054	.038	.027	.031	.022	.016	.010	.007	.005	
9.0	.085	.057	.038	.073	.049	.033	.051	.035	.023	.030	.020	.014	.010	.007	.005	
10.0	.080	.052	.033	.069	.045	.029	.048	.032	.021	.028	.019	.012	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2021-03-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:6.810m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.03V I:0.0324A P:3.1859W PF:0.4470 Freq:49.99Hz Lamp Flux:131.21x1 lm												
NAME: C282LED						TYPE:			WEIGHT:			
SPEC.:P-C282LED-3W3015-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		15.6	16.3	15.8	16.4	16.6	17.2	17.9	17.4	18.0	18.2	
		3H	15.5	16.1	15.7	16.3	16.5	17.1	17.7	17.3	17.9	18.1
		4H	15.4	16.0	15.7	16.2	16.4	17.0	17.6	17.3	17.8	18.0
		6H	15.3	15.9	15.6	16.1	16.3	16.9	17.5	17.2	17.7	17.9
		8H	15.3	15.8	15.6	16.0	16.3	16.9	17.4	17.2	17.7	17.9
		12H	15.2	15.7	15.5	16.0	16.3	16.8	17.3	17.2	17.6	17.9
4H	2H	15.4	16.0	15.7	16.2	16.4	17.0	17.6	17.3	17.8	18.0	
	3H	15.2	15.7	15.5	16.0	16.3	16.8	17.3	17.2	17.6	17.9	
	4H	15.1	15.6	15.5	15.9	16.2	16.7	17.2	17.1	17.5	17.8	
	6H	15.0	15.4	15.4	15.8	16.1	16.6	17.0	17.0	17.4	17.7	
	8H	15.0	15.4	15.4	15.7	16.1	16.6	17.0	17.0	17.3	17.7	
	12H	14.9	15.3	15.3	15.6	16.0	16.5	16.9	16.9	17.3	17.6	
8H	4H	15.0	15.4	15.4	15.7	16.1	16.6	17.0	17.0	17.3	17.7	
	6H	14.9	15.2	15.3	15.6	16.0	16.5	16.8	16.9	17.2	17.6	
	8H	14.8	15.1	15.2	15.5	15.9	16.4	16.7	16.9	17.1	17.5	
	12H	14.7	15.0	15.2	15.4	15.9	16.3	16.6	16.8	17.0	17.5	
12H	4H	14.9	15.3	15.3	15.6	16.0	16.5	16.9	16.9	17.3	17.6	
	6H	14.8	15.1	15.2	15.5	15.9	16.4	16.7	16.9	17.1	17.5	
	8H	14.7	15.0	15.2	15.4	15.9	16.3	16.6	16.8	17.0	17.5	
Variations with the observer position at spacings:												
S = 1.0H		+ 4.0 / - 1.\$					+ 4.6 / - 1.\$					
1.5H		+ 6.7 / - 1.\$					+ 7.2 / - 1.\$					
2.0H		+ 8.4 / - 1.\$					+ 8.8 / - 1.\$					

CIE Pub.117, 131.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -7.1)
Area: 0.0003 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2021-03-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.03V I:0.0324A P:3.1859W PF:0.4470 Freq:49.99Hz Lamp Flux:131.21x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3015-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

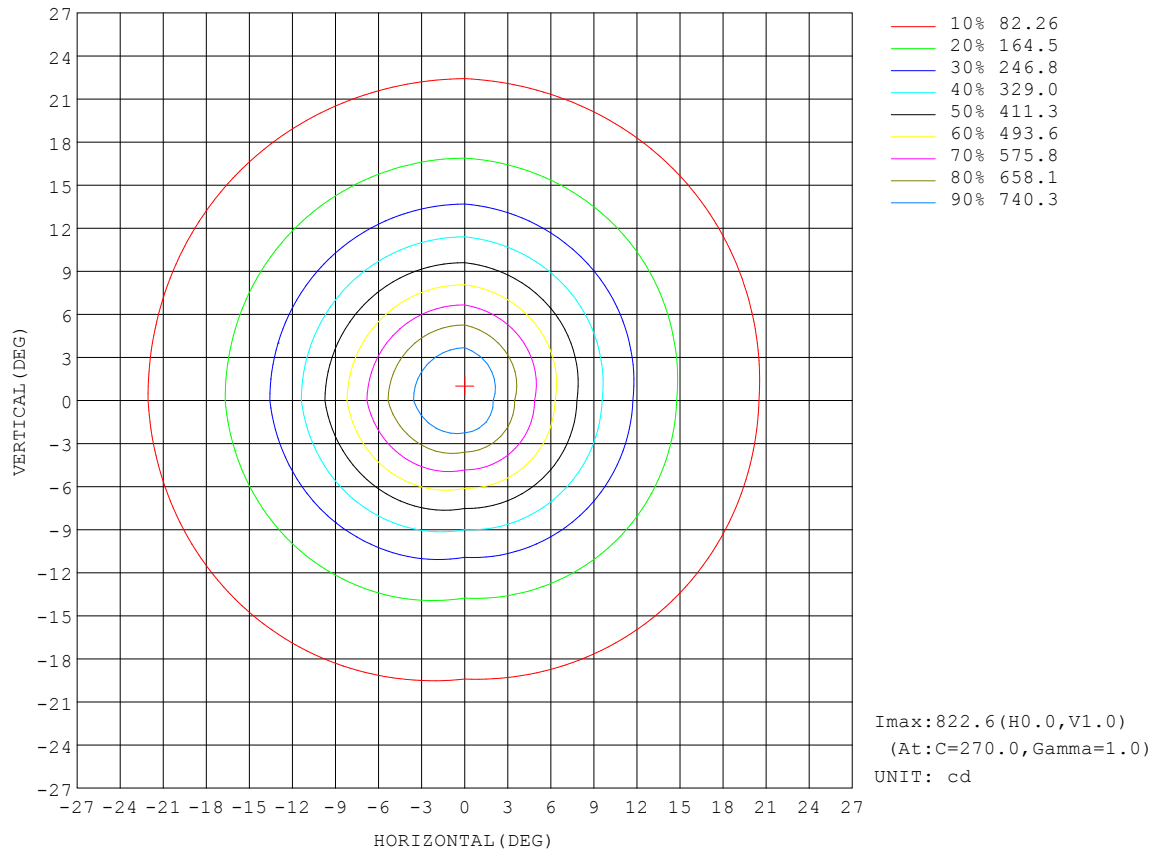
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	86	82	91	85	82	90	85	82	79
0.80	98	93	90	98	93	90	96	92	89	86
1.00	102	97	94	101	96	93	100	96	93	89
1.25	105	101	98	104	100	97	102	99	96	93
1.50	108	104	101	107	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	106	104	98
4.00	115	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	111	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:2021-03-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.03V I:0.0324A P:3.1859W PF:0.4470 Freq:49.99Hz Lamp Flux:131.21x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3015-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

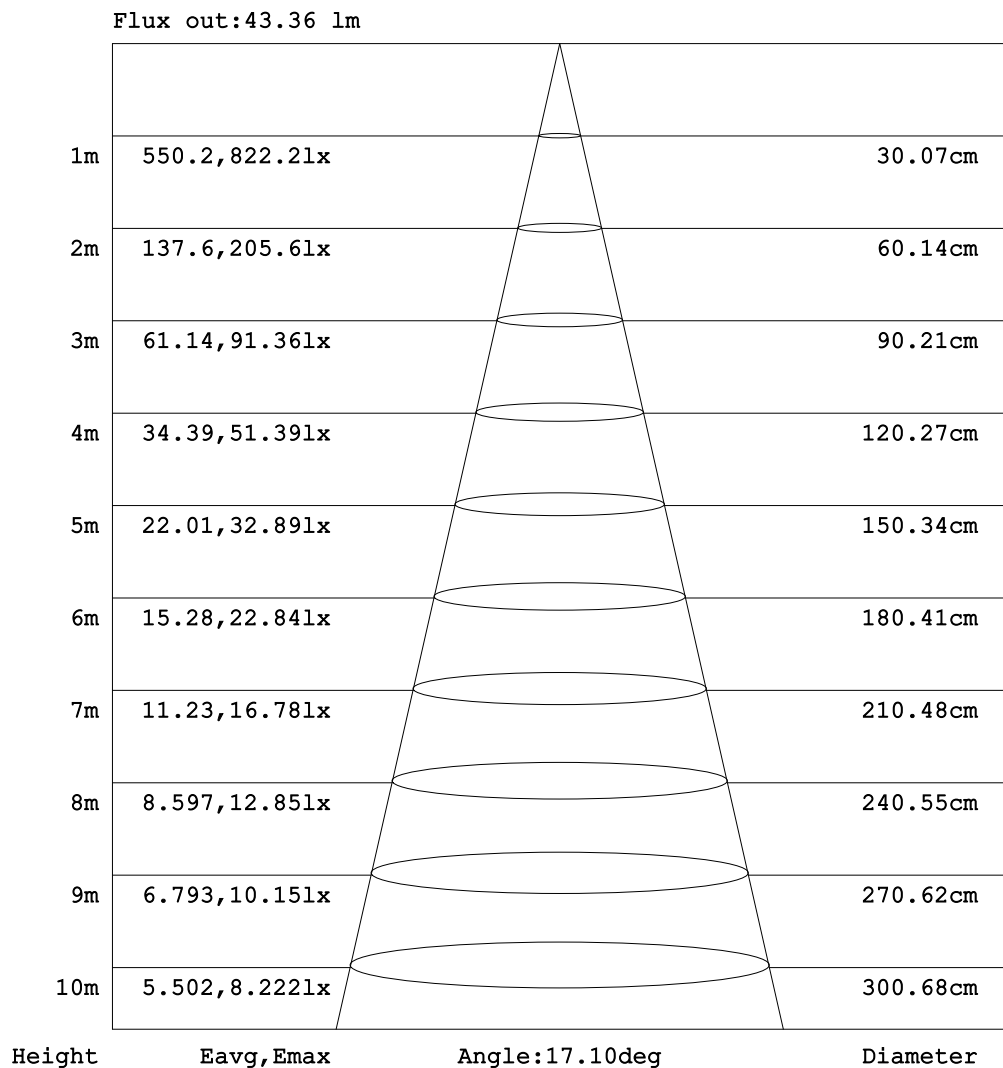


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2021-03-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:6.810m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.03V I:0.0324A P:3.1859W PF:0.4470 Freq:49.99Hz Lamp Flux:131.21x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3015-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:



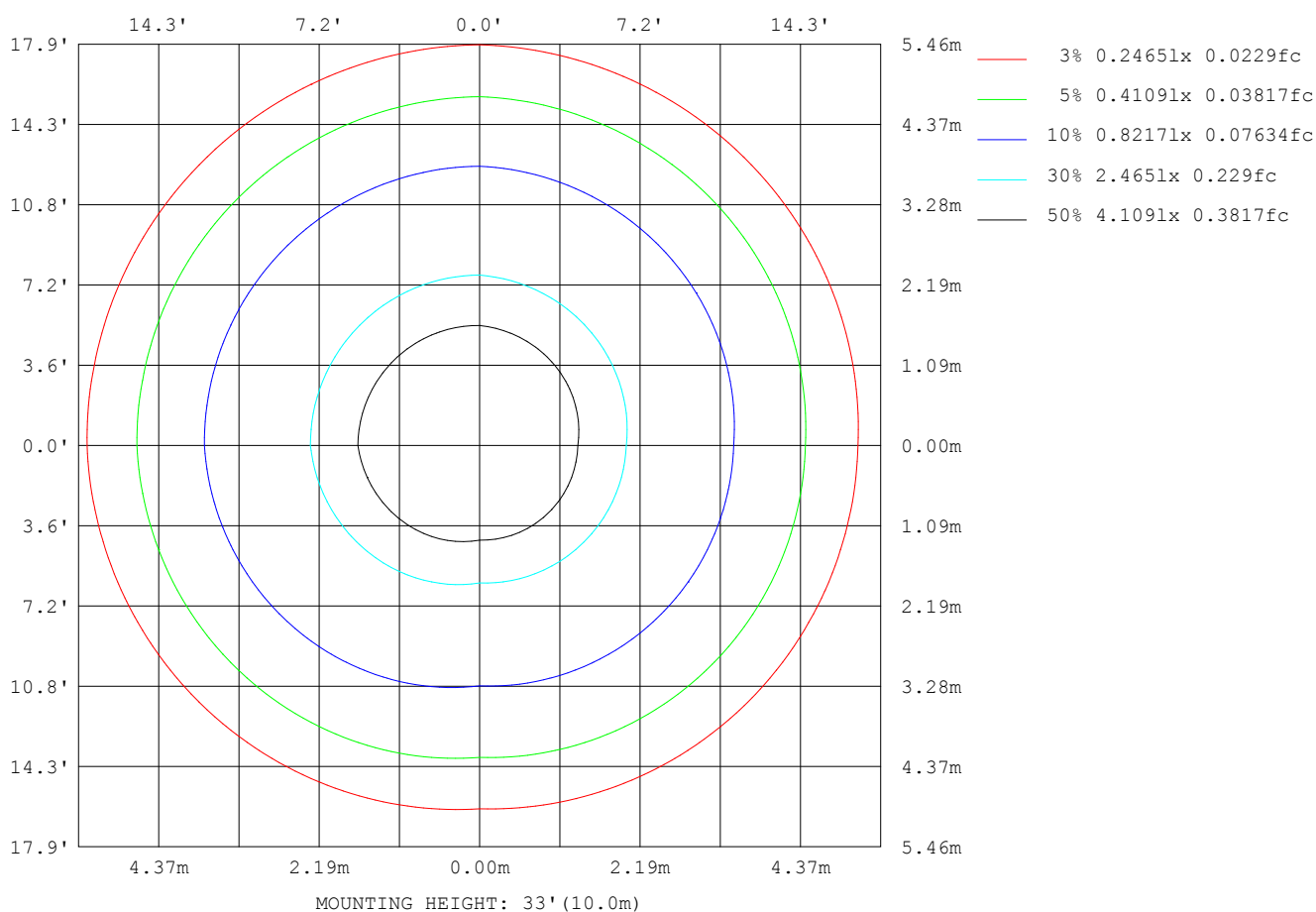
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2021-03-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.03V I:0.0324A P:3.1859W PF:0.4470 Freq:49.99Hz Lamp Flux:131.21x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3015-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:2021-03-11

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.03V I:0.0324A P:3.1859W PF:0.4470 Freq:49.99Hz Lamp Flux:131.21x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3015-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

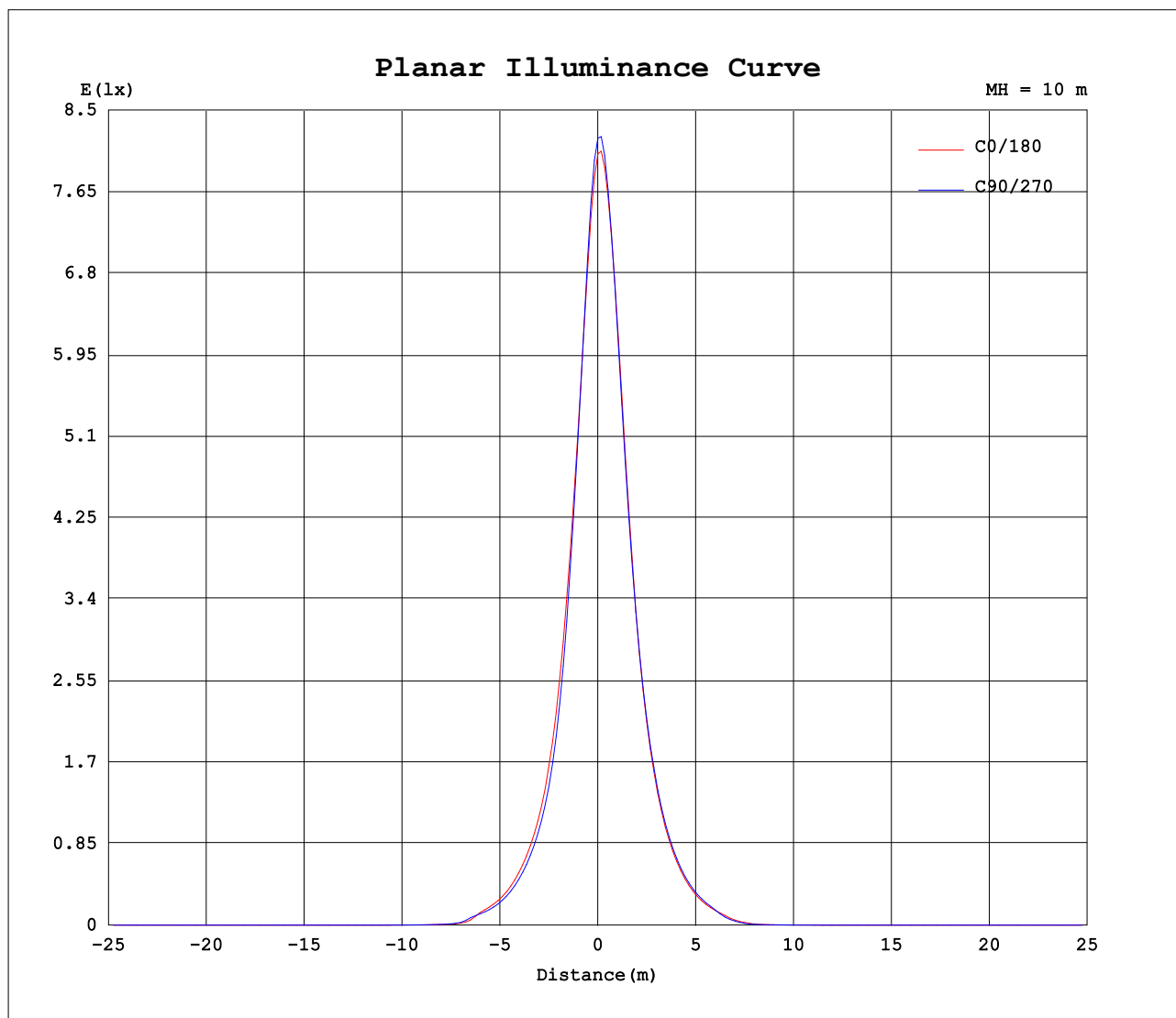
AvgL	cd/m2
L_0~180 (65) av	0
L_0~180 (75) av	0
L_0~180 (85) av	0
L_90~270 (65) av	0
L_90~270 (75) av	0
L_90~270 (85) av	0
L_45 (65) av	0
L_45 (75) av	0
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2021-03-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:6.810m [K=1.0000]
 Remarks:

Planar Illuminance Curve



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C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2021-03-11

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 6.810m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.03V I:0.0324A P:3.1859W PF:0.4470 Freq:49.99Hz Lamp Flux:131.21x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3015-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	804	821	804	821															
5	568	565	676	673															
10	310	283	398	391															
15	159	140	204	208															
20	87.3	76.4	107	111															
25	46.6	40.7	55.2	58.6															
30	24.6	21.3	27.8	30.0															
35	3.78	5.22	9.65	7.81															
40	1.05	1.22	1.52	1.22															
45	0.33	0.39	0.48	0.43															
50	0.07	0.06	0.15	0.03															
55	0.00	0.00	0.00	0.00															
60	0.00	0.00	0.00	0.00															
65	0.00	0.00	0.00	0.00															
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	0.00	0.00	0.00															
140	0.00	0.03	0.00	0.00															
145	0.06	0.10	0.01	0.00															
150	0.17	0.22	0.07	0.00															
155	0.31	0.39	0.15	0.07															
160	0.48	0.54	0.28	0.23															
165	0.58	0.56	0.42	0.38															
170	0.59	0.57	0.49	0.47															
175	0.52	0.52	0.48	0.50															
180	0.48	0.50	0.48	0.50															

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