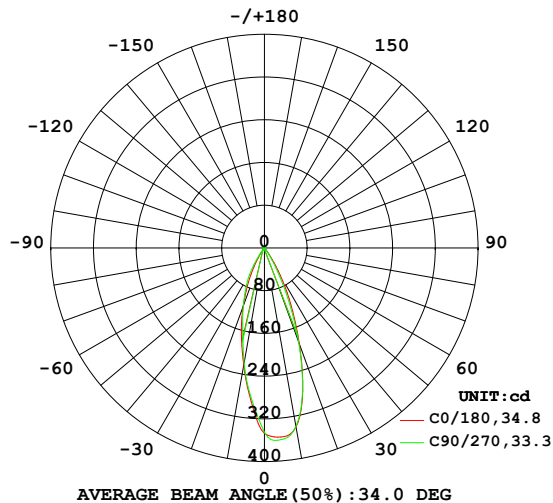


LUMINAIRE PHOTOMETRIC TEST REPORT

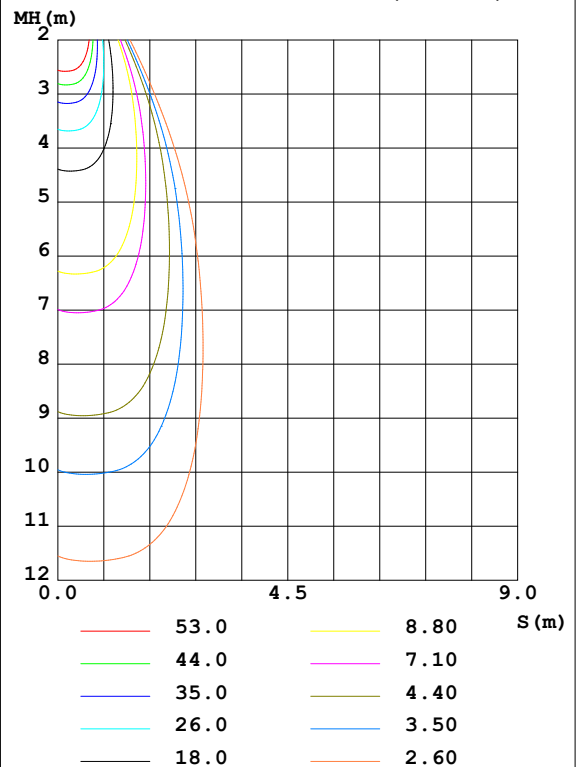
Test:U:220.00V I:0.0325A P:3.1865W PF:0.4462 Freq:49.99Hz Lamp Flux:145.455x1 lm					
NAME: C282LED		TYPE:		WEIGHT:	
SPEC.:P-C282LED-3W3034-OS7003R90-LDY700		DIM.:		SERIAL No.:	
MFR.: CETTIGA		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 45.65 lm/W
MODEL	OS 3030	I _{max} (cd)	360.8	S/MH (C0/180)	0.47	
NOMINAL POWER (W)	3W	LOR (%)	100.0	S/MH (C90/270)	0.45	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	145.45	η UP, DN (C0-180)	0.1, 59.4	
NOMINAL FLUX (lm)	145.455	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 40.3	
LAMPS INSIDE	1	η up (%)	0.2	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	220.2	η down (%)	99.8	CIBSE SHR MAX	0.60	

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:2021-03-12

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:

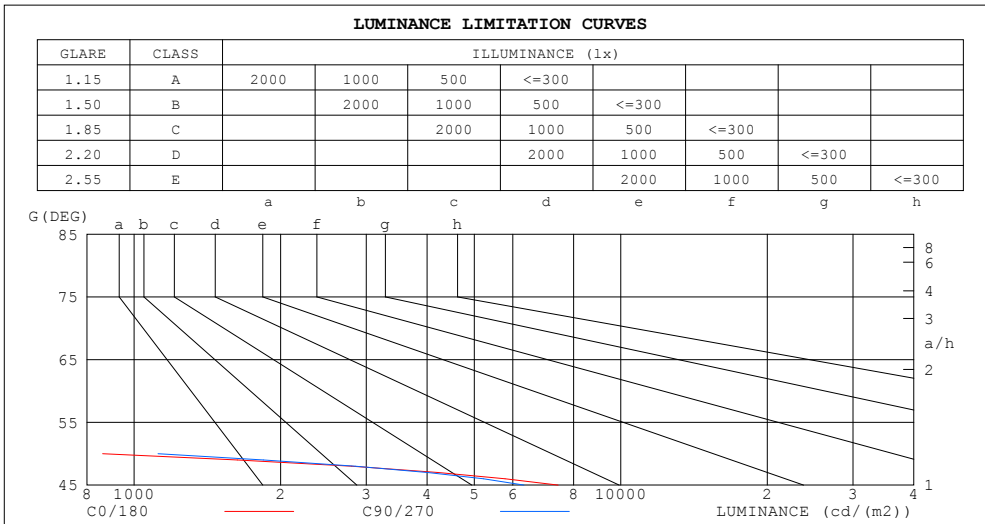
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	340.4	339.5	223.0	219.0					0- 10	29.46	29.46	20.3,20.3
20	191.1	187.1	117.1	115.5					10- 20	59.98	89.44	61.5,61.5
30	60.29	42.68	34.07	52.03					20- 30	42.84	132.3	90.9,90.9
40	4.880	4.169	3.448	5.129					30- 40	11.64	143.9	98.9,98.9
50	0.1662	0.2159	0	0.0256					40- 50	1.209	145.1	99.8,99.8
60	0	0	0	0					50- 60	0.0080	145.1	99.8,99.8
70	0	0	0	0					60- 70	0	145.1	99.8,99.8
80	0	0	0	0					70- 80	0	145.1	99.8,99.8
90	0	0	0	0					80- 90	0	145.1	99.8,99.8
100	0	0	0	0					90-100	0	145.1	99.8,99.8
110	0	0	0	0					100-110	0	145.1	99.8,99.8
120	0	0	0	0					110-120	0	145.1	99.8,99.8
130	0	0	0	0					120-130	0	145.1	99.8,99.8
140	0	0.0700	0.0319	0					130-140	0.0061	145.1	99.8,99.8
150	0.1335	0.1974	0.1657	0.0891					140-150	0.0465	145.2	99.8,99.8
160	0.3056	0.3886	0.3439	0.2802					150-160	0.1090	145.3	99.9,99.9
170	0.4776	0.5382	0.4776	0.3738					160-170	0.1123	145.4	100,100
180	0.5667	0.5603	0.5412	0.5158					170-180	0.0472	145.5	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:2021-03-12

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:220.00V I:0.0325A P:3.1865W PF:0.4462 Freq:49.99Hz Lamp Flux:145.455x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3034-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	862	1120
45	7433	6324

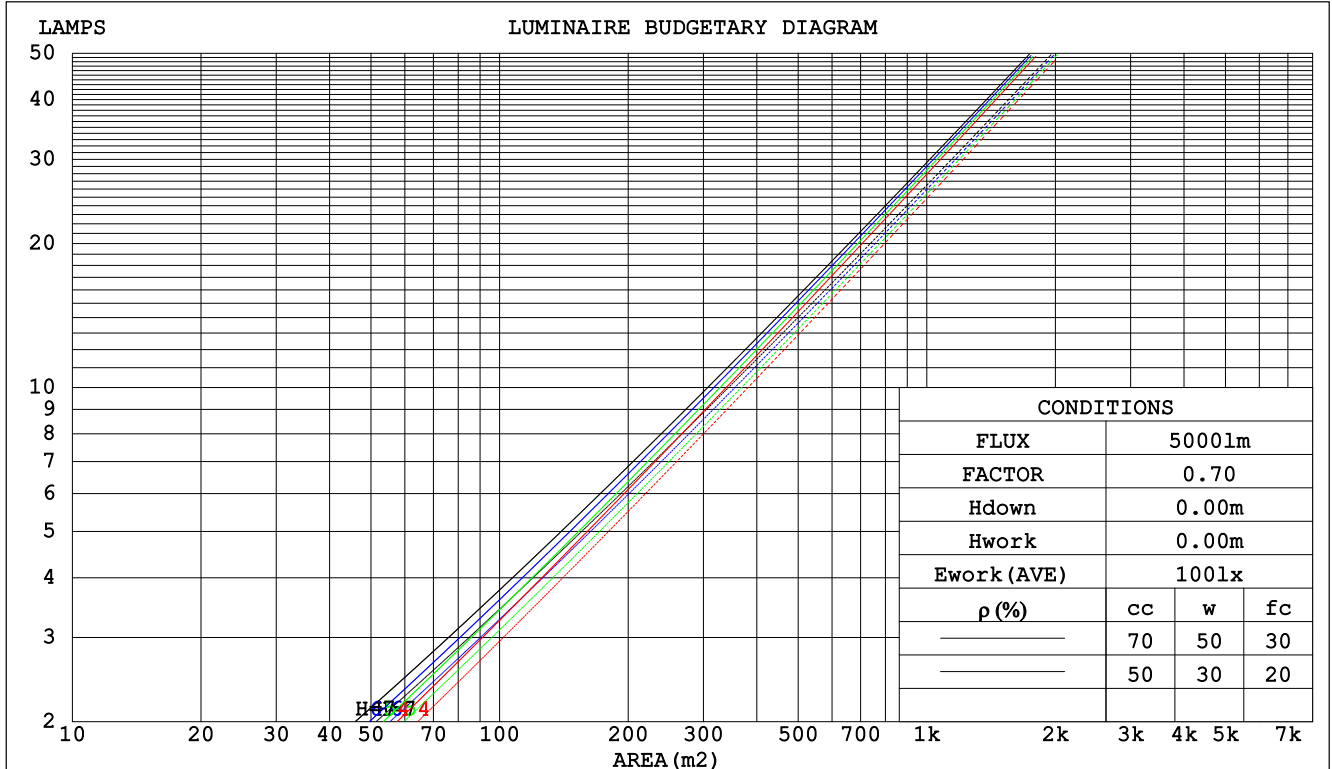
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2021-03-12

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:220.00V I:0.0325A P:3.1865W PF:0.4462 Freq:49.99Hz Lamp Flux:145.455x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3034-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	1.12	1.10	1.08	1.10	1.08	1.06	1.06	1.04	1.03	1.02	1.01	.00	.99	.98	.97	.95
2.0	1.06	1.03	.00	1.04	1.01	.99	1.01	.99	.96	.98	.96	.94	.95	.94	.92	.91
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.92	.89	.92	.90	.88	.87
4.0	.95	.91	.87	.94	.90	.87	.92	.89	.86	.90	.87	.85	.89	.86	.84	.83
5.0	.91	.86	.83	.90	.86	.82	.88	.85	.82	.87	.83	.81	.85	.82	.80	.79
6.0	.87	.82	.78	.86	.82	.78	.85	.81	.78	.83	.80	.77	.82	.79	.77	.75
7.0	.83	.78	.75	.82	.78	.75	.81	.77	.74	.80	.77	.74	.79	.76	.73	.72
8.0	.80	.75	.71	.79	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.70	.69
9.0	.76	.72	.68	.76	.71	.68	.75	.71	.68	.74	.70	.68	.73	.70	.68	.66
10.0	.73	.69	.65	.73	.68	.65	.72	.68	.65	.72	.68	.65	.71	.67	.65	.64



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2021-03-12

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:220.00V I:0.0325A P:3.1865W PF:0.4462 Freq:49.99Hz Lamp Flux:145.455x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3034-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	.152	.087	.027	.145	.083	.026	.133	.076	.024	.121	.070	.022	.111	.064	.021		
2.0	.143	.078	.024	.137	.076	.023	.127	.071	.022	.117	.066	.021	.108	.061	.019		
3.0	.135	.072	.021	.130	.070	.021	.121	.066	.020	.113	.062	.019	.106	.058	.018		
4.0	.128	.066	.020	.124	.065	.019	.116	.062	.018	.109	.059	.018	.103	.056	.017		
5.0	.121	.062	.018	.118	.061	.018	.111	.058	.017	.105	.056	.017	.100	.053	.016		
6.0	.116	.058	.017	.113	.057	.016	.107	.055	.016	.102	.053	.016	.097	.051	.015		
7.0	.111	.055	.015	.108	.054	.015	.103	.052	.015	.098	.050	.015	.094	.049	.014		
8.0	.106	.052	.015	.104	.051	.014	.099	.050	.014	.095	.048	.014	.091	.047	.014		
9.0	.102	.049	.014	.100	.049	.014	.096	.047	.013	.092	.046	.013	.088	.045	.013		
10.0	.098	.047	.013	.096	.046	.013	.092	.045	.013	.089	.044	.013	.086	.043	.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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.171	.159	.149	.146	.137	.128	.100	.094	.088	.058	.054	.051	.018	.018	.017	
2.0	.154	.134	.118	.132	.116	.102	.090	.080	.071	.052	.047	.042	.017	.015	.014	
3.0	.140	.115	.095	.120	.099	.082	.082	.069	.058	.048	.040	.034	.015	.013	.011	
4.0	.129	.100	.078	.110	.086	.068	.076	.060	.048	.044	.035	.028	.014	.011	.009	
5.0	.119	.088	.065	.102	.076	.057	.070	.053	.040	.041	.031	.024	.013	.010	.008	
6.0	.111	.078	.055	.095	.068	.048	.066	.047	.034	.038	.028	.020	.012	.009	.007	
7.0	.104	.070	.047	.089	.061	.041	.062	.043	.029	.036	.025	.017	.012	.008	.006	
8.0	.098	.064	.041	.084	.055	.035	.058	.039	.025	.034	.023	.015	.011	.008	.005	
9.0	.093	.058	.035	.080	.051	.031	.055	.036	.022	.032	.021	.013	.010	.007	.004	
10.0	.088	.054	.031	.076	.047	.027	.053	.033	.019	.031	.019	.012	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2021-03-12

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:220.00V I:0.0325A P:3.1865W PF:0.4462 Freq:49.99Hz Lamp Flux:145.455x1 lm											
NAME: C282LED					TYPE:			WEIGHT:			
SPEC.:P-C282LED-3W3034-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		22.7	23.4	22.9	23.6	23.8	20.8	21.6	21.1	21.8	21.9
	3H	22.5	23.2	22.8	23.4	23.6	20.7	21.4	20.9	21.6	21.8
	4H	22.4	23.1	22.7	23.3	23.5	20.6	21.3	20.9	21.5	21.7
	6H	22.3	23.0	22.6	23.2	23.5	20.5	21.1	20.8	21.4	21.6
	8H	22.3	22.9	22.6	23.2	23.4	20.5	21.1	20.8	21.3	21.6
	12H	22.3	22.8	22.6	23.1	23.4	20.4	21.0	20.7	21.3	21.5
4H	2H	22.4	23.1	22.7	23.3	23.5	20.6	21.3	20.9	21.5	21.7
	3H	22.3	22.8	22.6	23.1	23.4	20.4	21.0	20.7	21.3	21.5
	4H	22.2	22.7	22.5	23.0	23.3	20.3	20.9	20.7	21.2	21.5
	6H	22.1	22.5	22.4	22.9	23.2	20.2	20.7	20.6	21.0	21.4
	8H	22.0	22.4	22.4	22.8	23.2	20.2	20.6	20.6	21.0	21.3
	12H	22.0	22.4	22.4	22.7	23.1	20.1	20.5	20.5	20.9	21.3
8H	4H	22.0	22.4	22.4	22.8	23.2	20.2	20.6	20.6	21.0	21.3
	6H	21.9	22.3	22.3	22.7	23.1	20.1	20.4	20.5	20.8	21.2
	8H	21.8	22.2	22.3	22.6	23.0	20.0	20.3	20.5	20.7	21.2
	12H	21.8	22.0	22.2	22.5	23.0	19.9	20.2	20.4	20.7	21.1
12H	4H	22.0	22.4	22.4	22.7	23.1	20.1	20.5	20.5	20.9	21.3
	6H	21.8	22.2	22.3	22.6	23.0	20.0	20.3	20.5	20.7	21.2
	8H	21.8	22.0	22.2	22.5	23.0	19.9	20.2	20.4	20.7	21.1
Variations with the observer position at spacings:											
S = 1.0H	+ 4.7 / - 1.\$					+ 4.2 / - 1.\$					
1.5H	+ 7.3 / - 1.\$					+ 6.9 / - 1.\$					
2.0H	+ 8.7 / - 1.\$					+ 8.3 / - 1.\$					

CIE Pub.117, 145.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -6.7)
Area: 0.0003 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2021-03-12

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:

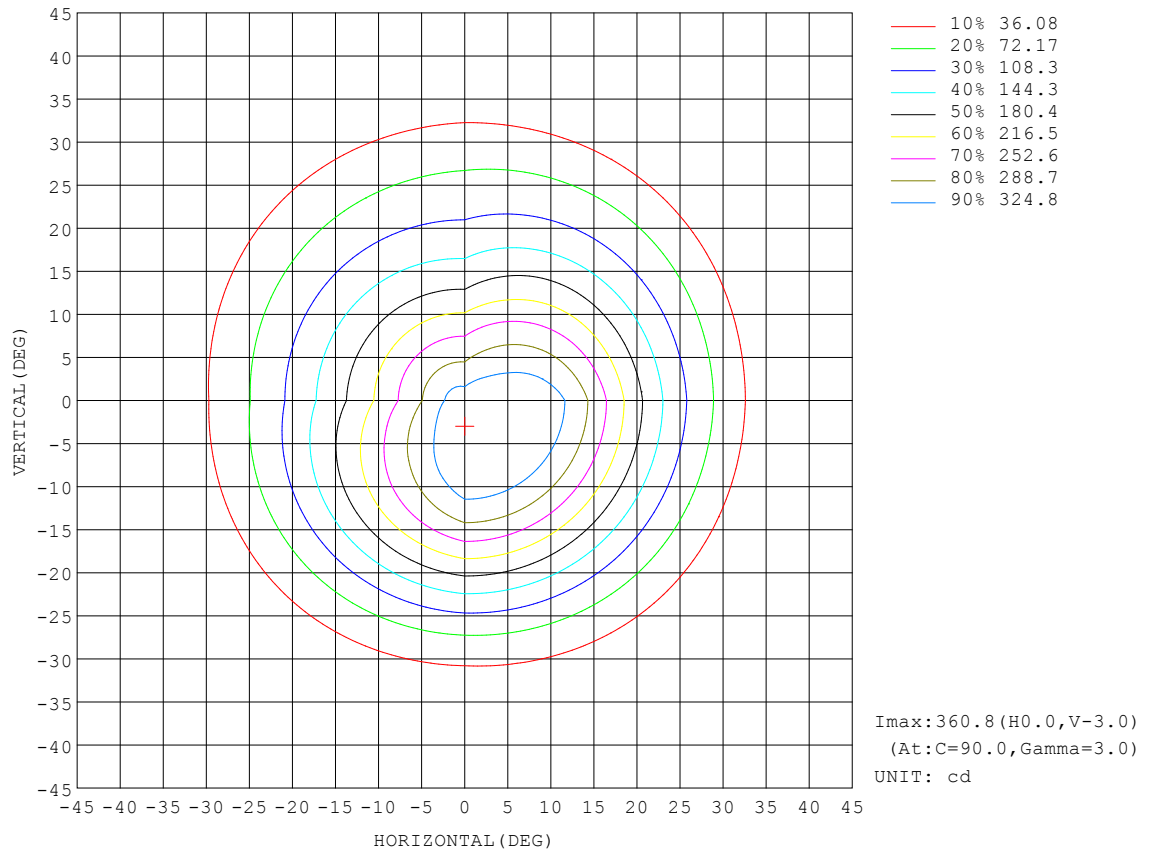
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

Test:U:220.00V I:0.0325A P:3.1865W PF:0.4462 Freq:49.99Hz Lamp Flux:145.455x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3034-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:



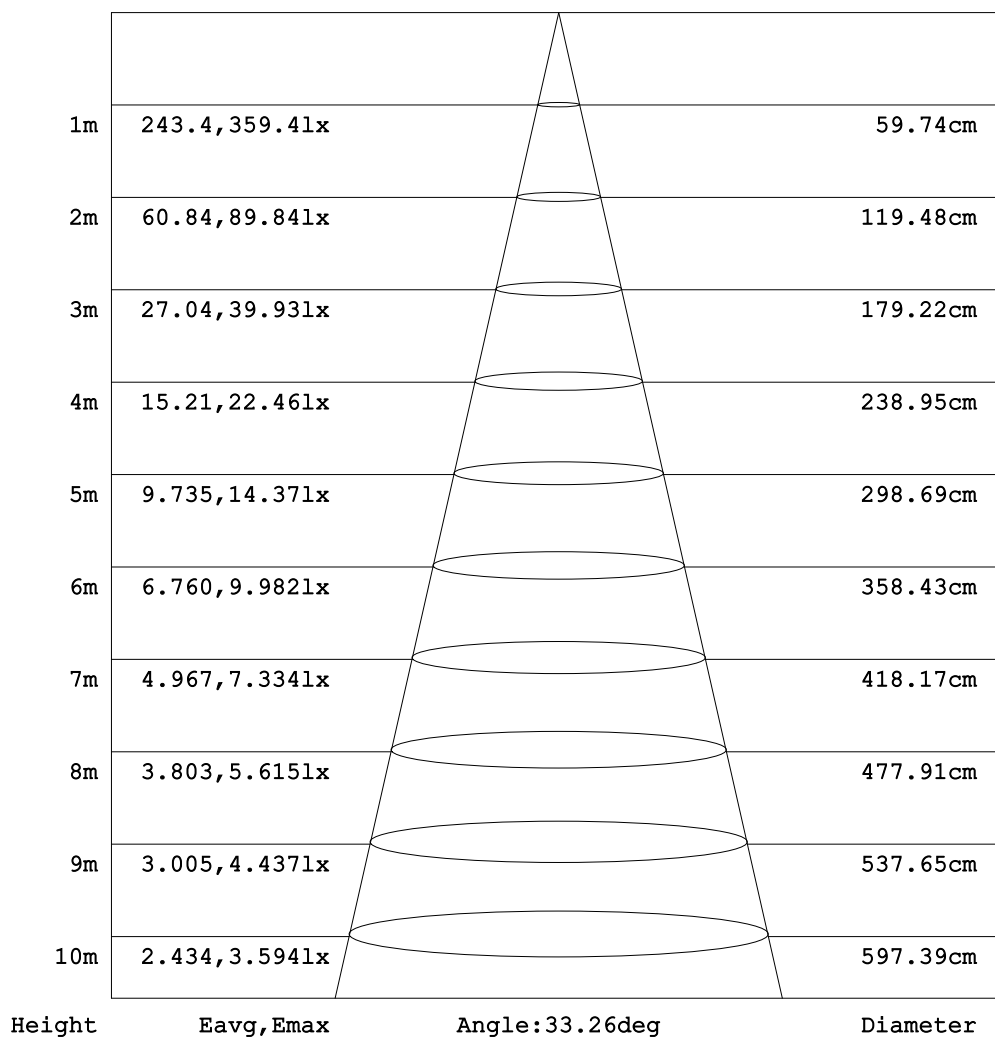
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2021-03-12

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:220.00V I:0.0325A P:3.1865W PF:0.4462 Freq:49.99Hz Lamp Flux:145.455x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3034-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

Flux out:71.47 lm



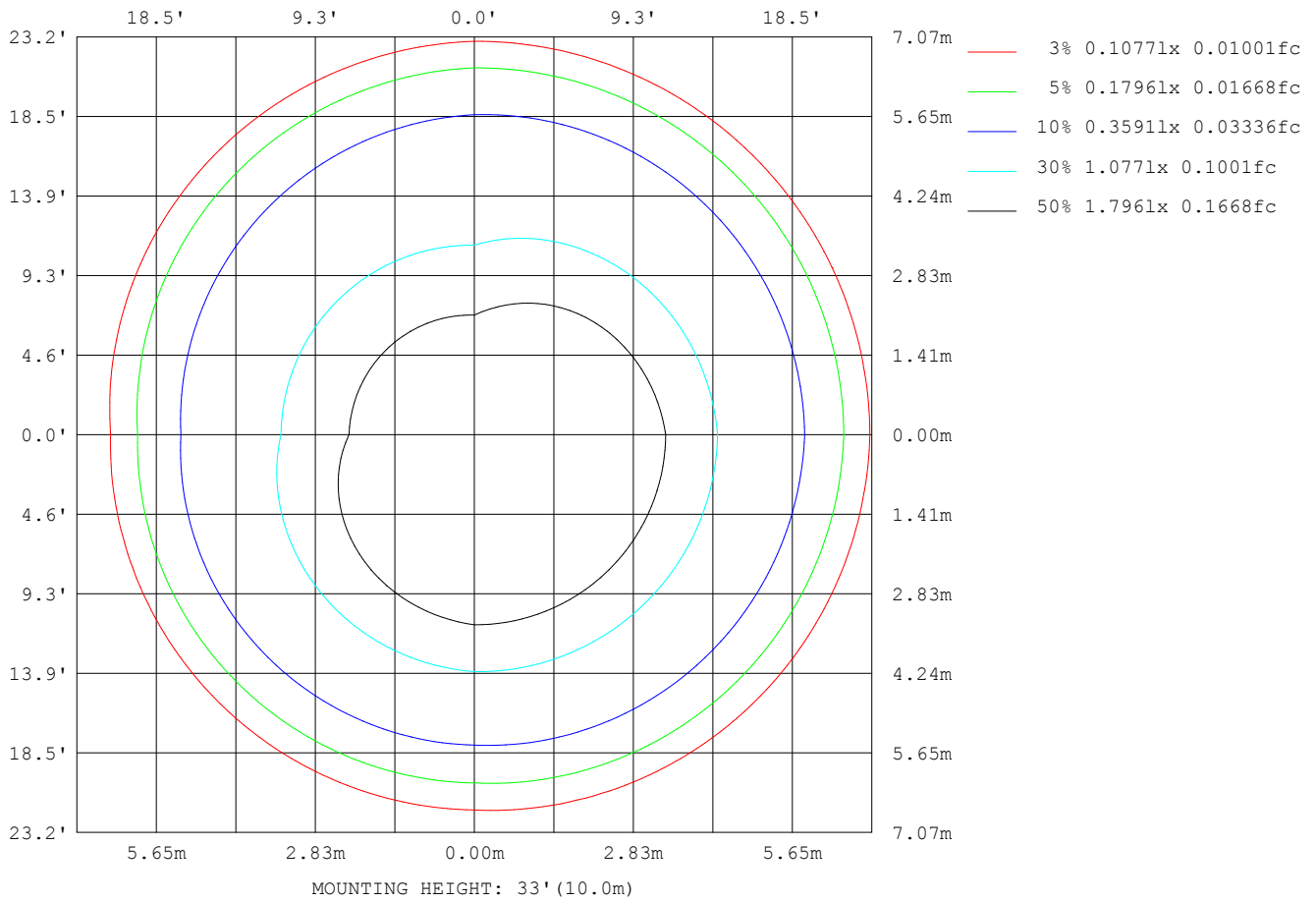
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2021-03-12

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:220.00V I:0.0325A P:3.1865W PF:0.4462 Freq:49.99Hz Lamp Flux:145.455x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3034-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:2021-03-12

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:220.00V I:0.0325A P:3.1865W PF:0.4462 Freq:49.99Hz Lamp Flux:145.455x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3034-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

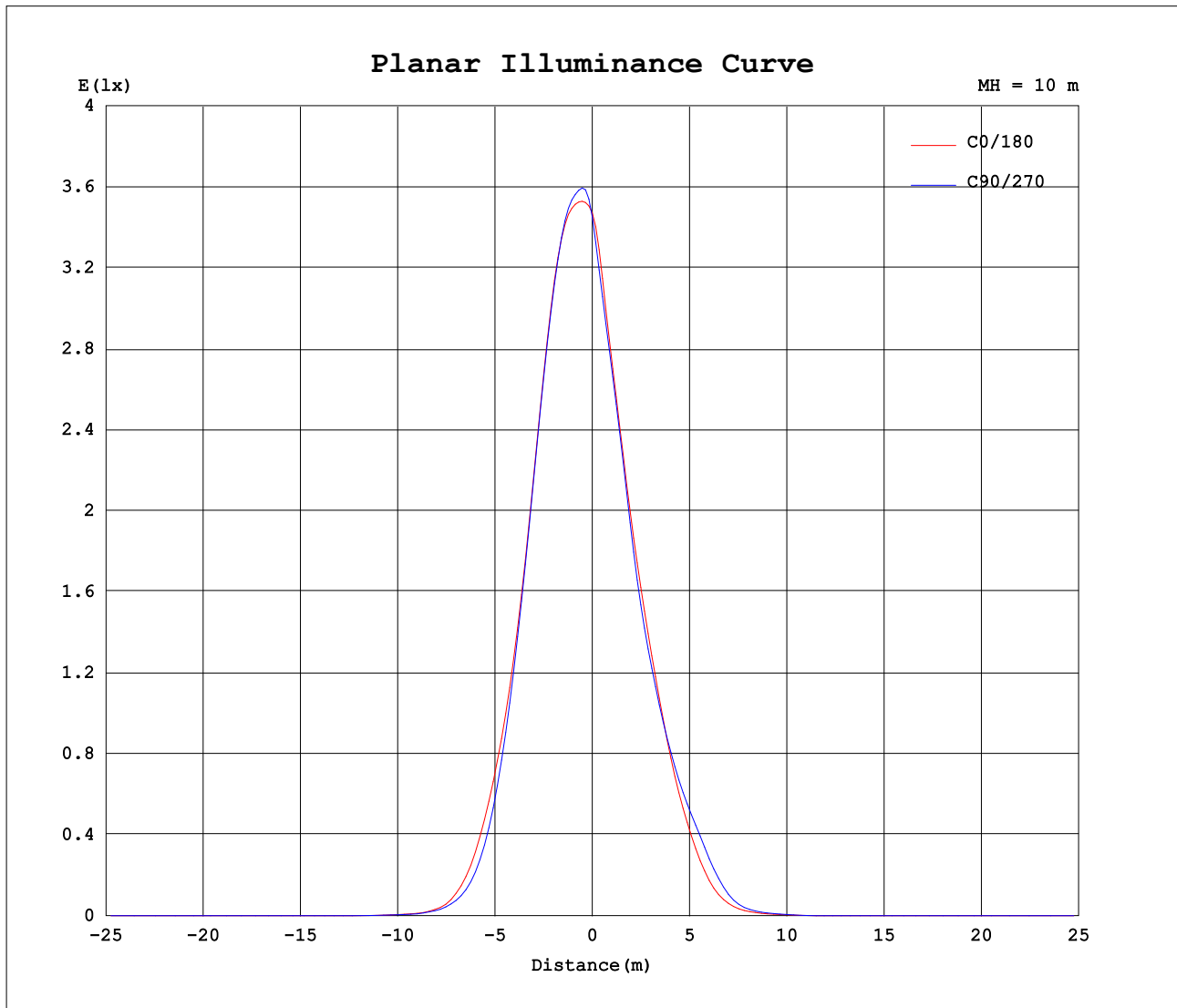
AvgL	cd/m2
L_0~180 (65) av	0
L_0~180 (75) av	0
L_0~180 (85) av	0
L_90~270 (65) av	0
L_90~270 (75) av	0
L_90~270 (85) av	0
L_45 (65) av	0
L_45 (75) av	0
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2021-03-12

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



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2021-03-12

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:220.00V I:0.0325A P:3.1865W PF:0.4462 Freq:49.99Hz Lamp Flux:145.455x1 lm		
NAME: C282LED	TYPE:	WEIGHT:
SPEC.:P-C282LED-3W3034-OS7003R90-LDY700	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	347	345	347	345															
5	355	360	288	283															
10	340	339	223	219															
15	278	276	167	158															
20	191	187	117	115															
25	118	103	71.3	81.8															
30	60.3	42.7	34.1	52.0															
35	20.2	13.8	11.1	19.2															
40	4.88	4.17	3.45	5.13															
45	1.58	1.34	1.23	1.66															
50	0.17	0.22	0.00	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	0.03	0.00	0.00															
140	0.00	0.07	0.03	0.00															
145	0.08	0.12	0.10	0.01															
150	0.13	0.20	0.17	0.09															
155	0.21	0.30	0.26	0.18															
160	0.31	0.39	0.34	0.28															
165	0.40	0.48	0.41	0.32															
170	0.48	0.54	0.48	0.37															
175	0.53	0.55	0.53	0.44															
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:2021-03-12

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: