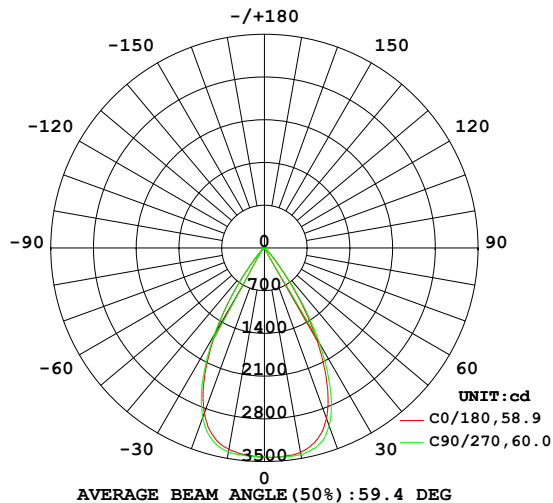


LUMINAIRE PHOTOMETRIC TEST REPORT

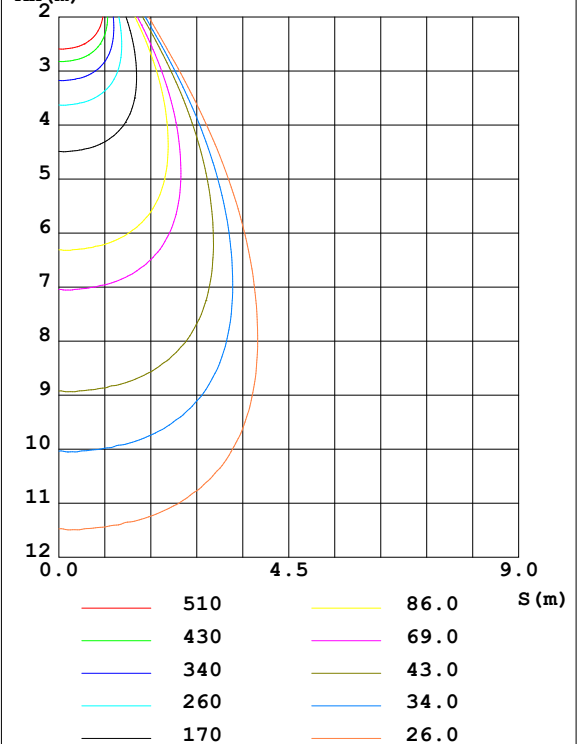
Test:U:232.38V I:0.1568A P:35.373W PF:0.9709 Freq:49.37Hz Lamp Flux:3035.03x1 lm		
NAME: W11361LED-X	TYPE:	WEIGHT:
SPEC.: P-W11361LED-X-36W3060-CI90036R90-OS600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.80 lm/W			
MODEL	CLU038 1206	I _{max} (cd)	3442	S/MH (C0/180)	0.87
NOMINAL POWER (W)	36W	LOR (%)	100.0	S/MH (C90/270)	0.87
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	3035.0	η UP, DN (C0-180)	0.2, 51.1
NOMINAL FLUX (lm)	3035.03	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 48.6
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220.2	η down (%)	99.7	CIBSE SHR MAX	0.90

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: 2024-06-18

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 6.810m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

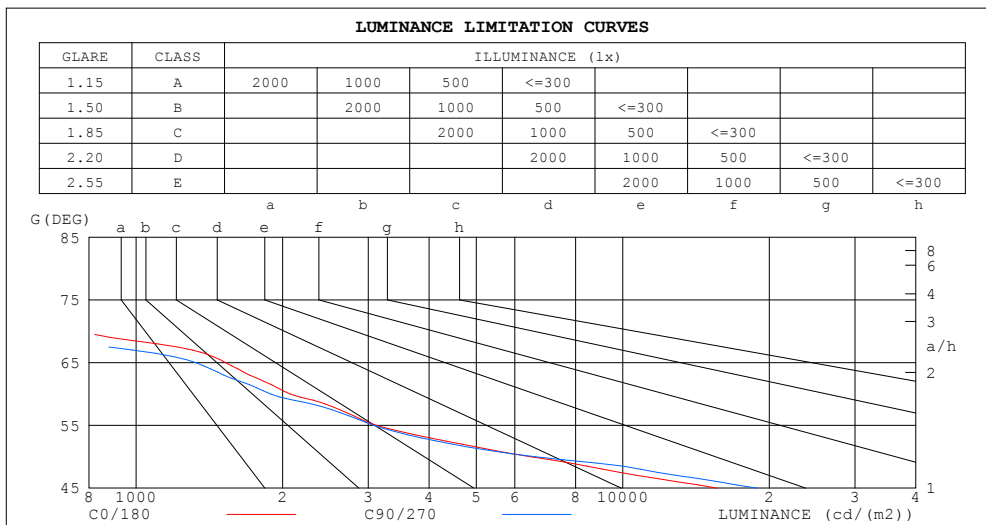
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	3399	3429	3347	3392					0- 10	325.9	325.9	10.7,10.7
20	2973	3099	2881	2953					10- 20	913.5	1239	40.8,40.8
30	1685	1804	1589	1638					20- 30	1087	2326	76.6,76.6
40	320.9	365.8	294.1	311.4					30- 40	567.1	2893	95.3,95.3
50	42.74	43.74	40.02	45.53					40- 50	105.1	2998	98.8,98.8
60	10.67	9.728	10.71	10.45					50- 60	18.66	3017	99.4,99.4
70	2.716	2.416	2.853	2.771					60- 70	6.177	3023	99.6,99.6
80	1.320	0.9638	1.279	1.115					70- 80	2.074	3025	99.7,99.7
90	0.0001	0	0.0296	0.0489					80- 90	0.5033	3026	99.7,99.7
100	0	0	0.0384	0.0349					90-100	0.0200	3026	99.7,99.7
110	0.0069	0.0209	0.0628	0.0523					100-110	0.0253	3026	99.7,99.7
120	0.1620	0.1763	0.1344	0.1325					110-120	0.0756	3026	99.7,99.7
130	1.034	1.047	0.5497	0.5975					120-130	0.3545	3026	99.7,99.7
140	2.986	3.055	1.883	2.040					130-140	1.201	3028	99.8,99.8
150	5.195	5.251	3.786	3.912					140-150	2.189	3030	99.8,99.8
160	6.902	6.964	5.394	5.530					150-160	2.472	3032	99.9,99.9
170	8.380	8.444	7.418	7.638					160-170	1.976	3034	100,100
180	9.054	9.251	9.059	9.249					170-180	0.8088	3035	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:2024-06-18

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:232.38V I:0.1568A P:35.373W PF:0.9709 Freq:49.37Hz Lamp Flux:3035.03x1 lm		
NAME: W11361LED-X	TYPE:	WEIGHT:
SPEC.:P-W11361LED-X-36W3060-CI90036R90-OS600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	635	254
80	738	539
75	779	672
70	771	686
65	1527	1326
60	2072	1889
55	3115	3077
50	6455	6606
45	15600	18822

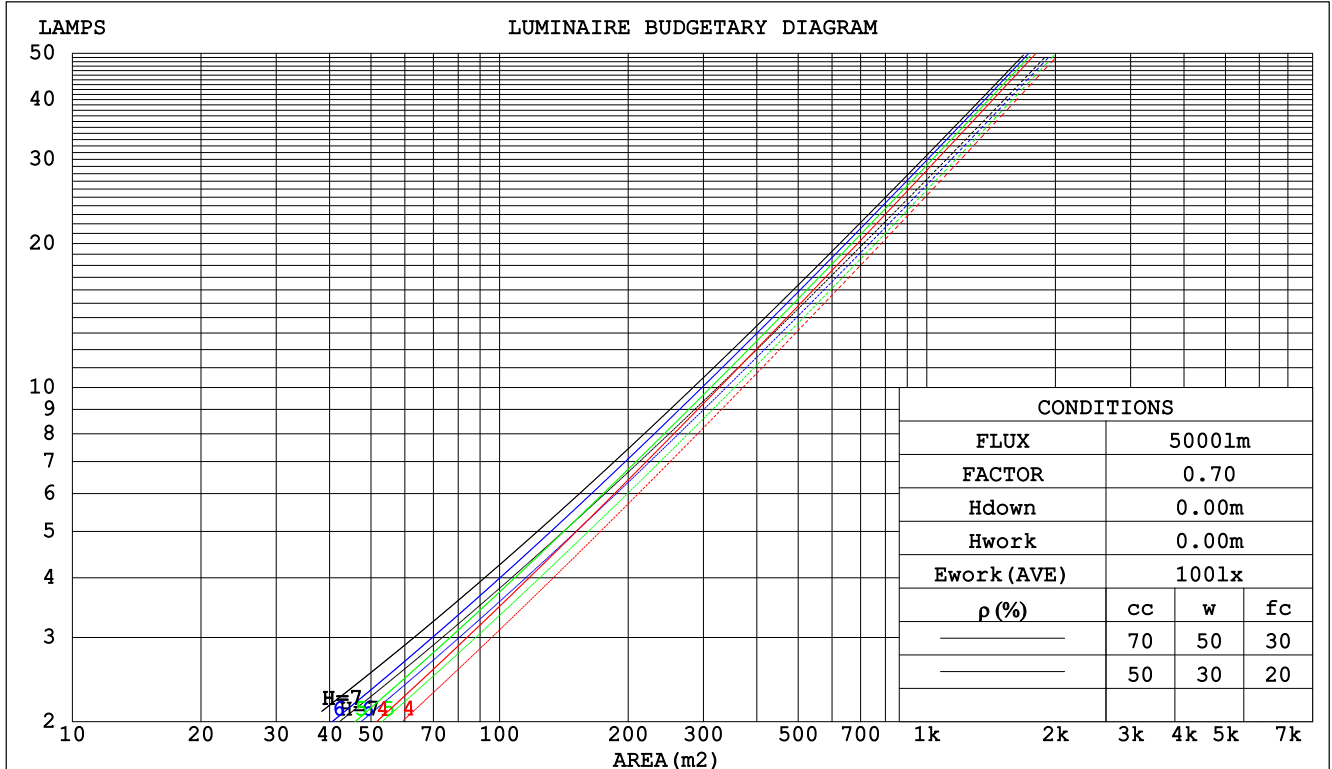
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-06-18

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:232.38V I:0.1568A P:35.373W PF:0.9709 Freq:49.37Hz Lamp Flux:3035.03x1 lm		
NAME: W11361LED-X	TYPE:	WEIGHT:
SPEC.:P-W11361LED-X-36W3060-CI90036R90-OS600	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	1.11	1.09	1.06	1.09	1.07	1.05	1.05	1.03	1.01	1.01	.00	.98	.97	.96	.95	.94
2.0	1.04	.00	.96	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.88	.95	.91	.88	.93	.89	.86	.90	.87	.85	.88	.86	.83	.82
4.0	.91	.86	.81	.90	.85	.81	.88	.83	.80	.85	.82	.79	.84	.81	.78	.77
5.0	.85	.80	.76	.84	.79	.75	.83	.78	.75	.81	.77	.74	.79	.76	.73	.72
6.0	.80	.75	.70	.79	.74	.70	.78	.73	.70	.77	.72	.69	.75	.72	.69	.67
7.0	.76	.70	.66	.75	.70	.66	.74	.69	.65	.73	.68	.65	.71	.68	.65	.63
8.0	.71	.66	.62	.71	.65	.62	.70	.65	.61	.69	.64	.61	.68	.64	.61	.59
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.64	.60	.57	.56
10.0	.64	.58	.55	.64	.58	.55	.63	.58	.55	.62	.58	.54	.61	.57	.54	.53



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-06-18

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:232.38V I:0.1568A P:35.373W PF:0.9709 Freq:49.37Hz Lamp Flux:3035.03x1 lm		
NAME: W11361LED-X	TYPE:	WEIGHT:
SPEC.:P-W11361LED-X-36W3060-CI90036R90-OS600	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	.173	.098	.031	.166	.095	.030	.153	.088	.028	.142	.082	.026	.131	.076	.024		
2.0	.165	.090	.028	.159	.088	.027	.149	.083	.026	.139	.078	.024	.130	.073	.023		
3.0	.157	.084	.025	.152	.082	.025	.143	.078	.024	.135	.074	.023	.127	.070	.022		
4.0	.150	.078	.023	.146	.076	.023	.138	.073	.022	.130	.070	.021	.124	.067	.020		
5.0	.143	.073	.021	.139	.072	.021	.133	.069	.020	.126	.067	.020	.120	.064	.019		
6.0	.137	.069	.020	.134	.067	.019	.127	.065	.019	.122	.063	.019	.117	.061	.018		
7.0	.131	.065	.018	.128	.064	.018	.123	.062	.018	.118	.060	.018	.113	.059	.017		
8.0	.125	.061	.017	.123	.061	.017	.118	.059	.017	.114	.058	.017	.109	.056	.016		
9.0	.120	.058	.016	.118	.058	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016		
10.0	.116	.055	.015	.114	.055	.015	.110	.054	.015	.106	.053	.015	.103	.052	.015		

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	.173	.160	.148	.148	.137	.127	.101	.094	.088	.058	.055	.051	.019	.018	.017	
2.0	.158	.135	.116	.135	.116	.100	.093	.080	.070	.053	.047	.041	.017	.015	.013	
3.0	.145	.116	.093	.124	.100	.080	.085	.069	.056	.049	.041	.033	.016	.013	.011	
4.0	.135	.101	.075	.116	.087	.066	.079	.061	.046	.046	.036	.027	.015	.012	.009	
5.0	.126	.089	.063	.108	.077	.054	.075	.054	.038	.043	.032	.023	.014	.010	.008	
6.0	.119	.080	.053	.102	.069	.046	.070	.049	.032	.041	.029	.019	.013	.009	.006	
7.0	.112	.073	.045	.096	.063	.039	.067	.044	.028	.039	.026	.016	.013	.009	.005	
8.0	.106	.066	.039	.092	.058	.034	.063	.040	.024	.037	.024	.014	.012	.008	.005	
9.0	.101	.061	.034	.087	.053	.030	.061	.037	.021	.035	.022	.013	.011	.007	.004	
10.0	.097	.057	.030	.084	.049	.026	.058	.035	.019	.034	.021	.011	.011	.007	.004	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-06-18

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:232.38V I:0.1568A P:35.373W PF:0.9709 Freq:49.37Hz Lamp Flux:3035.03x1 lm											
NAME: W11361LED-X					TYPE:			WEIGHT:			
SPEC.:P-W11361LED-X-36W3060-CI90036R90-OS600					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		15.5	16.4	15.7	16.6	16.8	15.9	16.8	16.1	16.9	17.1
	3H	15.3	16.2	15.6	16.4	16.6	15.7	16.5	15.9	16.7	16.9
	4H	15.3	16.1	15.5	16.3	16.5	15.6	16.4	15.9	16.6	16.8
	6H	15.2	15.9	15.5	16.2	16.4	15.5	16.3	15.8	16.5	16.8
	8H	15.1	15.8	15.4	16.1	16.4	15.5	16.2	15.8	16.4	16.7
	12H	15.1	15.8	15.4	16.0	16.3	15.4	16.1	15.7	16.4	16.7
4H	2H	15.3	16.1	15.5	16.3	16.5	15.6	16.4	15.9	16.6	16.8
	3H	15.1	15.8	15.4	16.0	16.3	15.4	16.1	15.8	16.4	16.7
	4H	15.0	15.6	15.3	15.9	16.2	15.3	16.0	15.7	16.3	16.6
	6H	14.9	15.4	15.3	15.8	16.1	15.2	15.8	15.6	16.1	16.5
	8H	14.8	15.3	15.2	15.7	16.1	15.2	15.7	15.6	16.0	16.4
	12H	14.8	15.3	15.2	15.6	16.0	15.1	15.6	15.6	16.0	16.4
8H	4H	14.8	15.3	15.2	15.7	16.1	15.2	15.7	15.6	16.0	16.4
	6H	14.7	15.2	15.2	15.6	16.0	15.1	15.5	15.5	15.9	16.3
	8H	14.7	15.1	15.1	15.5	15.9	15.0	15.4	15.5	15.8	16.3
	12H	14.6	14.9	15.1	15.4	15.9	15.0	15.3	15.4	15.7	16.2
12H	4H	14.8	15.3	15.2	15.6	16.0	15.1	15.6	15.5	16.0	16.4
	6H	14.7	15.1	15.1	15.5	15.9	15.0	15.4	15.5	15.8	16.3
	8H	14.6	14.9	15.1	15.4	15.9	15.0	15.3	15.4	15.7	16.2
Variations with the observer position at spacings:											
S = 1.0H	+ 3.8 / -13.1					+ 4.0 / -13.9					
1.5H	+ 6.3 / -11.3					+ 6.5 / -11.9					
2.0H	+ 6.3 / - 6.0					+ 7.0 / - 7.0					

CIE Pub.117, 3035 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.9)
Area: 0.0103 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-06-18

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:232.38V I:0.1568A P:35.373W PF:0.9709 Freq:49.37Hz Lamp Flux:3035.03x1 lm		
NAME: W11361LED-X	TYPE:	WEIGHT:
SPEC.:P-W11361LED-X-36W3060-CI90036R90-OS600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

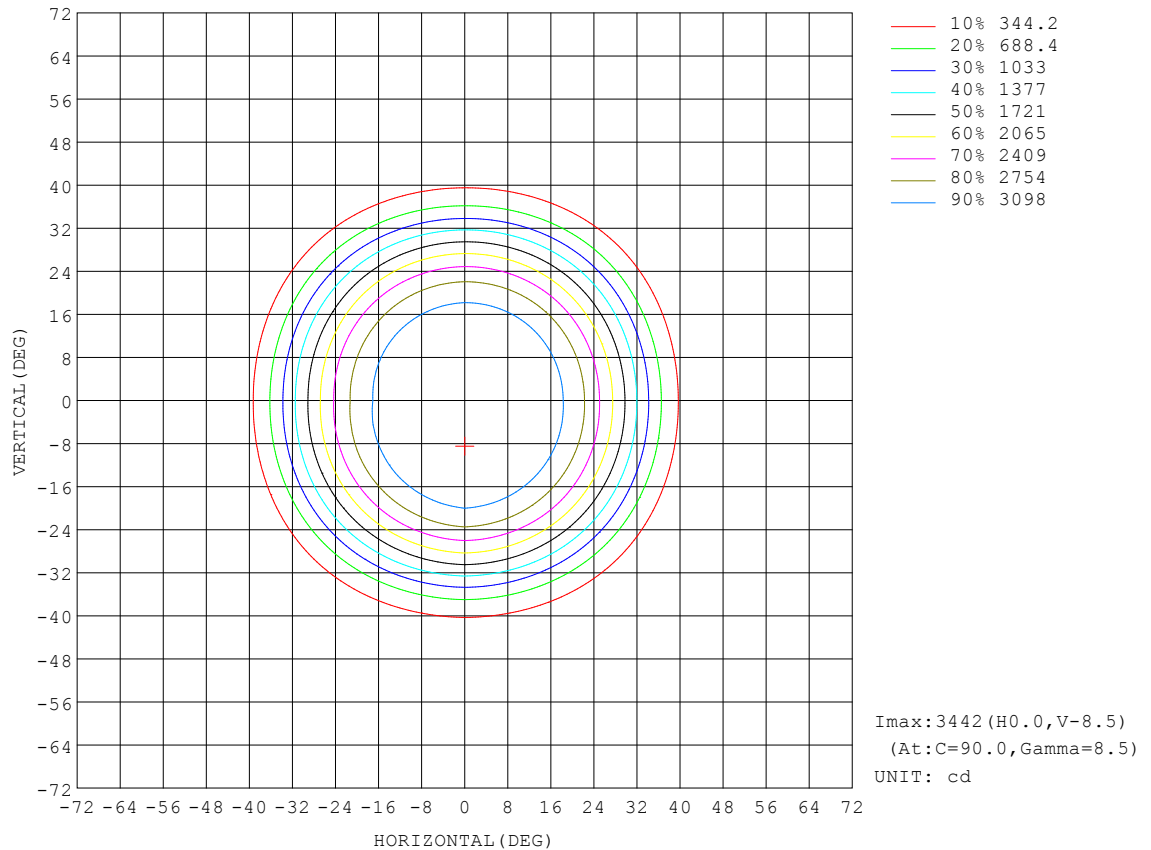
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	98	94	91	87
1.25	104	99	96	103	98	95	101	97	94	90
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	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:2024-06-18

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:232.38V I:0.1568A P:35.373W PF:0.9709 Freq:49.37Hz Lamp Flux:3035.03x1 lm		
NAME: W11361LED-X	TYPE:	WEIGHT:
SPEC.: P-W11361LED-X-36W3060-CI90036R90-OS600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

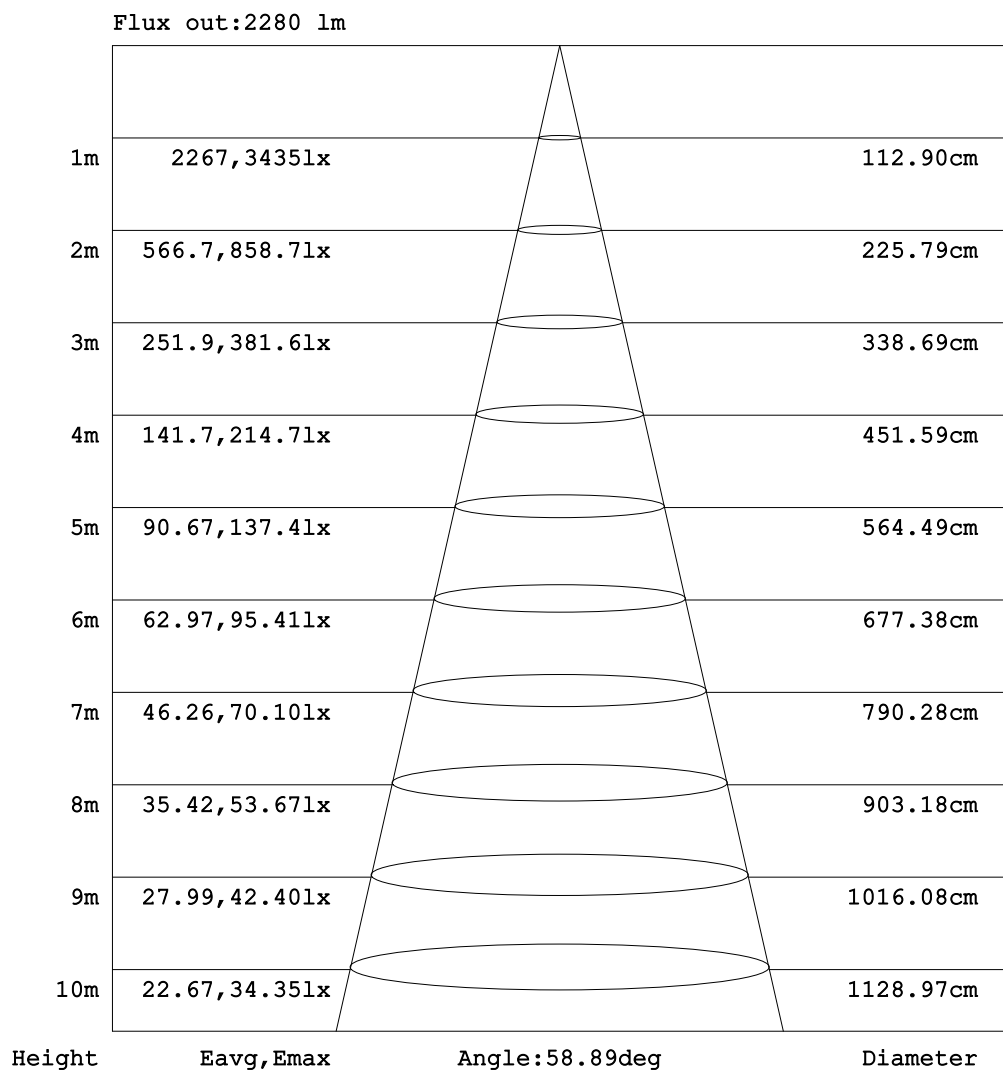


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2024-06-18

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 6.810m [K=1.0000]
Remarks:

AAI Figure

Test:U:232.38V I:0.1568A P:35.373W PF:0.9709 Freq:49.37Hz Lamp Flux:3035.03x1 lm		
NAME: W11361LED-X	TYPE:	WEIGHT:
SPEC.:P-W11361LED-X-36W3060-CI90036R90-OS600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:



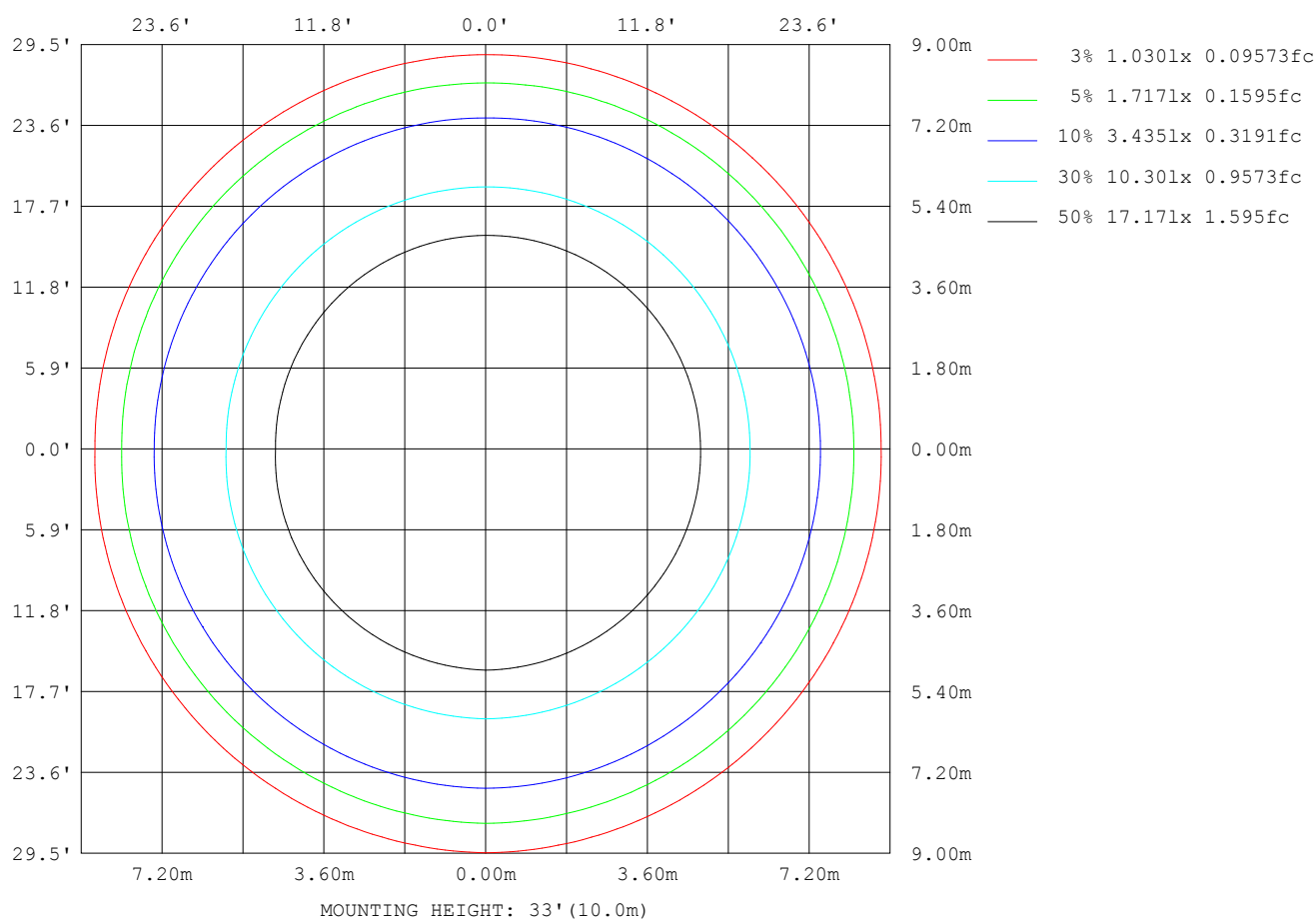
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2024-06-18

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity:65.0%
 Test Distance:6.810m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:232.38V I:0.1568A P:35.373W PF:0.9709 Freq:49.37Hz Lamp Flux:3035.03x1 lm		
NAME: W11361LED-X	TYPE:	WEIGHT:
SPEC.:P-W11361LED-X-36W3060-CI90036R90-OS600	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:2024-06-18

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:232.38V I:0.1568A P:35.373W PF:0.9709 Freq:49.37Hz Lamp Flux:3035.03x1 lm		
NAME: W11361LED-X	TYPE:	WEIGHT:
SPEC.:P-W11361LED-X-36W3060-CI90036R90-OS600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

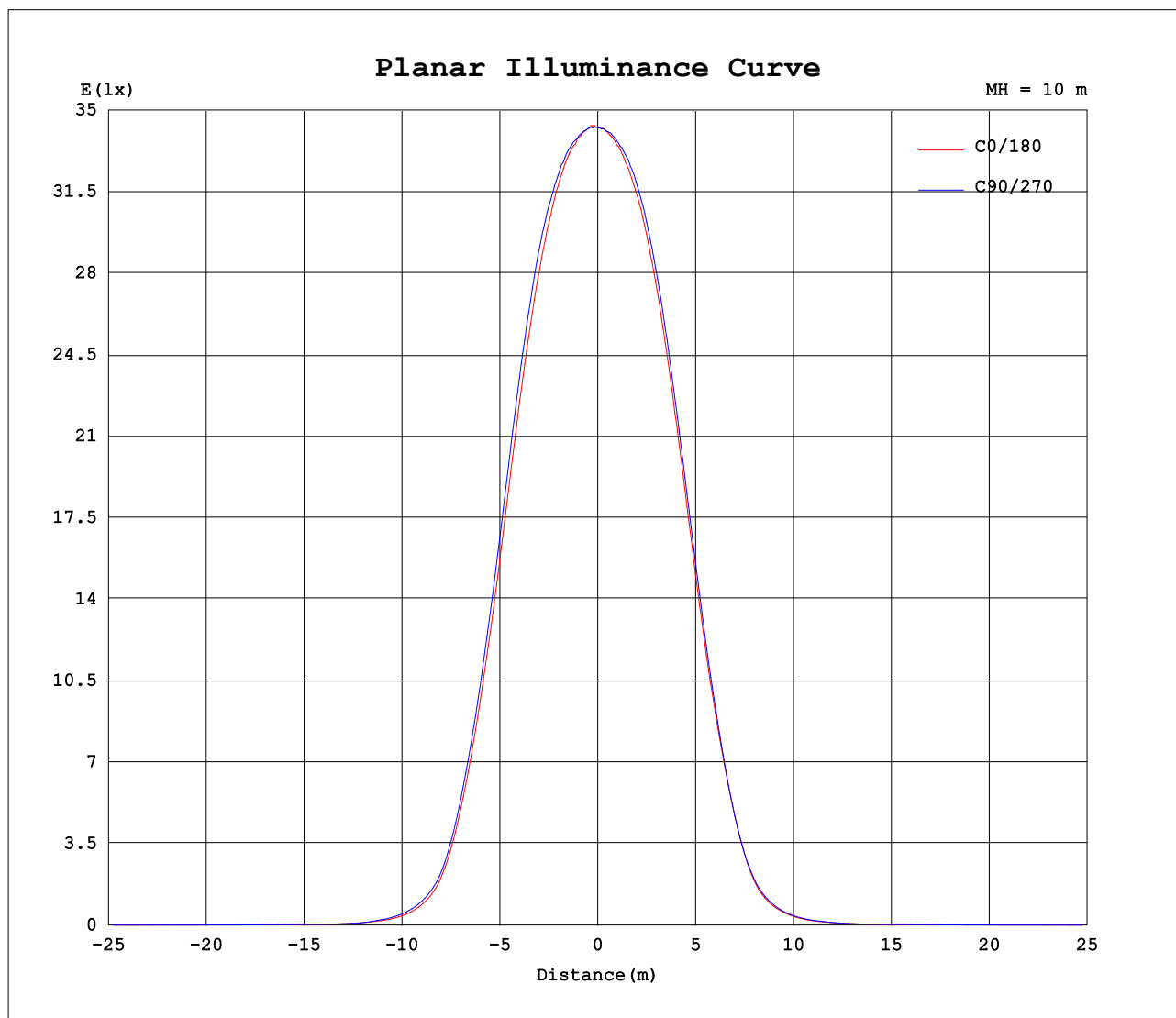
AvgL	cd/m2
L_0~180 (65) av	1539
L_0~180 (75) av	795
L_0~180 (85) av	601
L_90~270 (65) av	1382
L_90~270 (75) av	714
L_90~270 (85) av	290
L_45 (65) av	1441
L_45 (75) av	745
L_45 (85) av	404

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-06-18

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
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: 2024-06-18

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 6.810m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:232.38V I:0.1568A P:35.373W PF:0.9709 Freq:49.37Hz Lamp Flux:3035.03x1 lm		
NAME: W11361LED-X	TYPE:	WEIGHT:
SPEC.:P-W11361LED-X-36W3060-CI90036R90-OS600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	3424	3425	3424	3425															
5	3429	3435	3406	3419															
10	3399	3429	3347	3392															
15	3267	3355	3199	3266															
20	2973	3099	2881	2953															
25	2416	2555	2319	2392															
30	1685	1804	1589	1638															
35	911	985	852	851															
40	321	366	294	311															
45	114	137	107	115															
50	42.7	43.7	40.0	45.5															
55	18.4	18.2	18.5	18.3															
60	10.7	9.73	10.7	10.4															
65	6.65	5.77	6.75	6.26															
70	2.72	2.42	2.85	2.77															
75	2.08	1.79	2.16	2.01															
80	1.32	0.96	1.28	1.12															
85	0.57	0.23	0.51	0.29															
90	0.00	0.00	0.03	0.05															
95	0.00	0.00	0.03	0.04															
100	0.00	0.00	0.04	0.03															
105	0.00	0.00	0.05	0.04															
110	0.01	0.02	0.06	0.05															
115	0.05	0.06	0.09	0.08															
120	0.16	0.18	0.13	0.13															
125	0.45	0.47	0.25	0.27															
130	1.03	1.05	0.55	0.60															
135	1.92	1.95	1.10	1.19															
140	2.99	3.05	1.88	2.04															
145	4.11	4.21	2.82	2.98															
150	5.20	5.25	3.79	3.91															
155	6.12	6.13	4.64	4.72															
160	6.90	6.96	5.39	5.53															
165	7.68	7.72	6.34	6.47															
170	8.38	8.44	7.42	7.64															
175	8.87	8.99	8.42	8.63															
180	9.05	9.25	9.06	9.25															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
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γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity:65.0%
 Test Distance:6.810m [K=1.0000]
 Remarks: