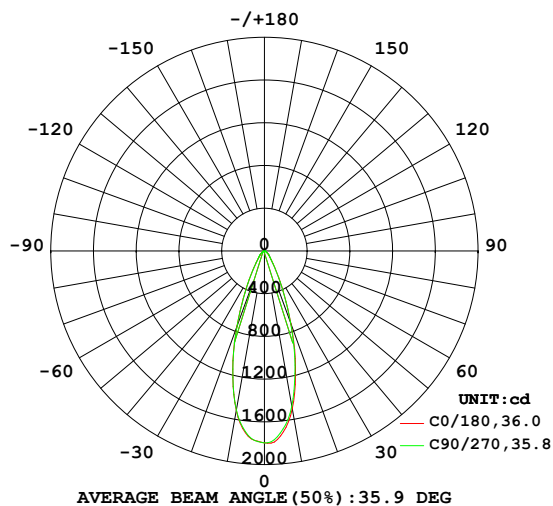


LUMINAIRE PHOTOMETRIC TEST REPORT

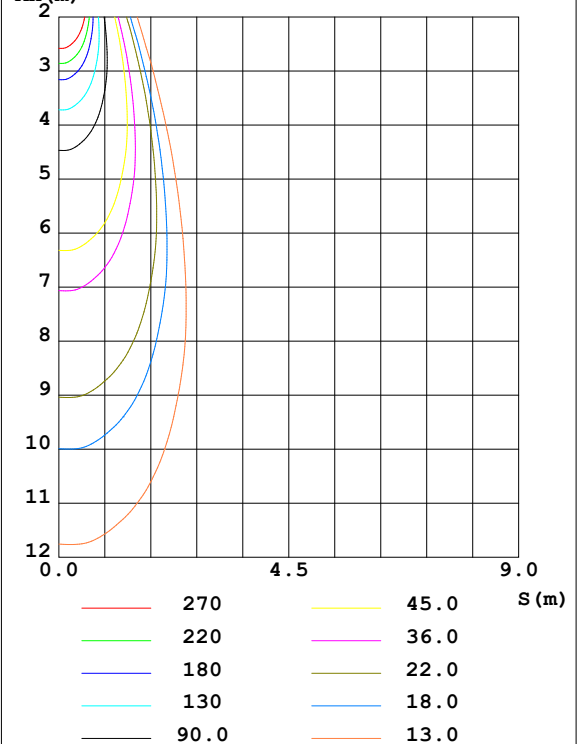
Test:U:221.1V I:0.0553A P:11.38W PF:0.9318 Freq:59.98Hz Lamp Flux:853.492x1 lm					
NAME: 1802LED		TYPE:		WEIGHT:	
SPEC.:P-1802LED-10W2738-CI25034R90-HL600		DIM.:		SERIAL No.:	
MFR.: CETTIGA		SUR.:0.0003		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 74.97 lm/W
MODEL	CLU028-1202	I _{max} (cd)	1800	S/MH (C0/180)	0.59	
NOMINAL POWER (W)	10W	LOR (%)	100.0	S/MH (C90/270)	0.59	
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	853.49	η UP, DN (C0-180)	0.2, 49.1	
NOMINAL FLUX (lm)	853.492	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 50.6	
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	220.2	η down (%)	99.7	CIBSE SHR MAX	0.60	

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: 2020-02-27

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:

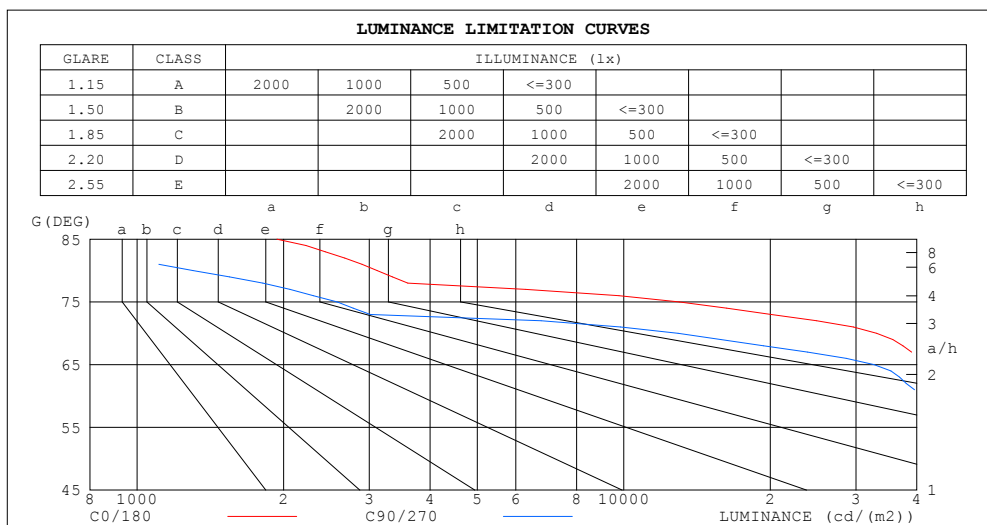
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1501	1476	1516	1513					0- 10	158.0	158.0	18.5,18.5
20	726.8	716.2	754.3	750.2					10- 20	307.9	465.9	54.6,54.6
30	225.8	224.6	240.6	239.3					20- 30	198.0	663.9	77.8,77.8
40	84.68	86.25	86.89	89.77					30- 40	87.42	751.4	88,88
50	45.43	53.63	46.70	53.17					40- 50	50.70	802.1	94,94
60	25.18	20.28	26.73	20.55					50- 60	29.88	831.9	97.5,97.5
70	11.31	4.423	13.33	4.746					60- 70	15.69	847.6	99.3,99.3
80	0.5405	0.2262	0.5739	0.3253					70- 80	3.145	850.8	99.7,99.7
90	0.0117	0.0117	0.0116	0.0176					80- 90	0.1576	850.9	99.7,99.7
100	0.0058	0.0232	0.0290	0.0116					90-100	0.0126	850.9	99.7,99.7
110	0.0116	0.0522	0.0522	0.0290					100-110	0.0247	851.0	99.7,99.7
120	0.0696	0.1103	0.0929	0.0290					110-120	0.0508	851.0	99.7,99.7
130	0.1913	0.2322	0.1568	0.1045					120-130	0.1084	851.1	99.7,99.7
140	0.5626	0.6156	0.3543	0.2844					130-140	0.2217	851.3	99.7,99.7
150	1.421	1.480	0.8766	0.8294					140-150	0.4720	851.8	99.8,99.8
160	2.414	2.490	1.713	1.631					150-160	0.7324	852.5	99.9,99.9
170	2.983	3.047	2.443	2.344					160-170	0.6748	853.2	100,100
180	3.052	3.070	3.012	3.041					170-180	0.2711	853.5	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:2020-02-27

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:221.1V I:0.0553A P:11.38W PF:0.9318 Freq:59.98Hz Lamp Flux:853.492x1 lm		
NAME: 1802LED	TYPE:	WEIGHT:
SPEC.:P-1802LED-10W2738-CI25034R90-HL600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0003	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1938	200
80	3112	1302
75	12998	2577
70	33079	12932
65	41090	32656
60	50368	40562
55	59925	54086
50	70673	83437
45	87489	94491

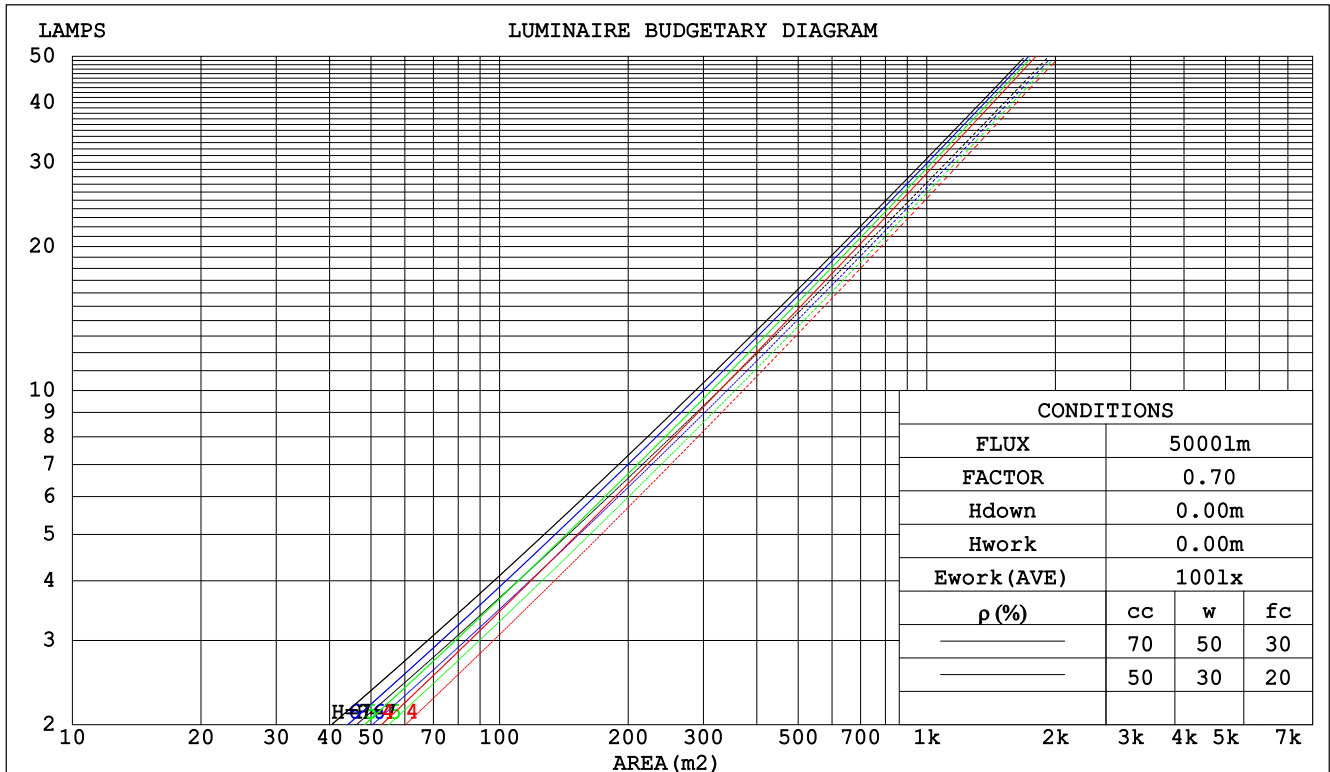
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-02-27

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:221.1V I:0.0553A P:11.38W PF:0.9318 Freq:59.98Hz Lamp Flux:853.492x1 lm		
NAME: 1802LED	TYPE:	WEIGHT:
SPEC.:P-1802LED-10W2738-CI25034R90-HL600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0003	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	1.11	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	.97	1.02	.98	.95	.99	.96	.93	.96	.93	.91	.93	.91	.89	.88
3.0	.97	.92	.89	.96	.91	.88	.93	.89	.86	.91	.88	.85	.88	.86	.84	.82
4.0	.91	.86	.82	.90	.85	.82	.88	.84	.81	.86	.83	.80	.84	.81	.79	.77
5.0	.86	.81	.77	.85	.80	.77	.84	.79	.76	.82	.78	.75	.80	.77	.74	.73
6.0	.82	.76	.72	.81	.76	.72	.80	.75	.72	.78	.74	.71	.77	.73	.71	.69
7.0	.78	.72	.68	.77	.72	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.66
8.0	.74	.69	.65	.74	.68	.65	.72	.68	.64	.71	.67	.64	.70	.67	.64	.63
9.0	.71	.65	.62	.70	.65	.62	.69	.65	.61	.68	.64	.61	.68	.64	.61	.60
10.0	.68	.62	.59	.67	.62	.59	.67	.62	.59	.66	.62	.59	.65	.61	.58	.57



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2020-02-27

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:221.1V I:0.0553A P:11.38W PF:0.9318 Freq:59.98Hz Lamp Flux:853.492x1 lm					
NAME: 1802LED			TYPE:		WEIGHT:
SPEC.:P-1802LED-10W2738-CI25034R90-HL600			DIM.:		SERIAL No.:
MFR.: CETTIGA			SUR.:0.0003		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	.141	.082	.026	.131	.076	.024		
2.0	.164	.090	.028	.159	.087	.027	.148	.082	.026	.138	.078	.024	.129	.073	.023		
3.0	.155	.083	.025	.151	.081	.024	.142	.077	.023	.133	.073	.022	.125	.069	.021		
4.0	.147	.076	.022	.143	.075	.022	.135	.072	.021	.128	.069	.021	.121	.066	.020		
5.0	.139	.071	.021	.135	.070	.020	.129	.067	.020	.122	.065	.019	.116	.062	.019		
6.0	.132	.066	.019	.129	.065	.019	.123	.063	.018	.117	.061	.018	.112	.059	.017		
7.0	.125	.062	.018	.122	.061	.017	.117	.059	.017	.112	.058	.017	.108	.056	.016		
8.0	.119	.058	.016	.117	.057	.016	.112	.056	.016	.108	.055	.016	.104	.053	.015		
9.0	.114	.055	.015	.111	.054	.015	.107	.053	.015	.103	.052	.015	.100	.051	.015		
10.0	.109	.052	.014	.107	.052	.014	.103	.050	.014	.099	.049	.014	.096	.048	.014		

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	.092	.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	.134	.101	.076	.115	.087	.066	.079	.061	.046	.046	.036	.027	.015	.012	.009	
5.0	.125	.089	.063	.107	.077	.055	.074	.054	.039	.043	.032	.023	.014	.010	.008	
6.0	.117	.080	.053	.100	.069	.046	.069	.048	.033	.040	.028	.020	.013	.009	.006	
7.0	.110	.072	.046	.095	.063	.040	.065	.044	.028	.038	.026	.017	.012	.008	.006	
8.0	.104	.066	.040	.089	.057	.034	.062	.040	.024	.036	.024	.015	.012	.008	.005	
9.0	.099	.060	.035	.085	.052	.030	.059	.037	.021	.034	.022	.013	.011	.007	.004	
10.0	.094	.056	.031	.081	.049	.027	.056	.034	.019	.033	.020	.011	.011	.007	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2020-02-27

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:221.1V I:0.0553A P:11.38W PF:0.9318 Freq:59.98Hz Lamp Flux:853.492x1 lm											
NAME: 1802LED						TYPE:			WEIGHT:		
SPEC.:P-1802LED-10W2738-CI25034R90-HL600						DIM.:			SERIAL No.:		
MFR.: CETTIGA						SUR.:0.0003			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		23.4	24.3	23.6	24.5	24.6	23.3	24.2	23.5	24.3	24.5
	3H	23.9	24.7	24.1	24.9	25.1	23.4	24.2	23.7	24.4	24.6
	4H	23.9	24.7	24.2	24.9	25.1	23.3	24.1	23.6	24.3	24.6
	6H	23.8	24.5	24.1	24.8	25.0	23.2	24.0	23.5	24.2	24.5
	8H	23.8	24.5	24.1	24.7	25.0	23.2	23.9	23.5	24.2	24.4
	12H	23.7	24.4	24.0	24.7	24.9	23.1	23.8	23.5	24.1	24.4
4H	2H	23.6	24.3	23.8	24.6	24.8	23.4	24.2	23.7	24.4	24.7
	3H	24.1	24.8	24.4	25.0	25.3	23.6	24.3	23.9	24.5	24.8
	4H	24.1	24.7	24.4	25.0	25.3	23.5	24.1	23.9	24.4	24.7
	6H	24.0	24.5	24.4	24.9	25.2	23.4	24.0	23.8	24.3	24.6
	8H	23.9	24.4	24.3	24.8	25.2	23.4	23.9	23.8	24.2	24.6
	12H	23.9	24.3	24.3	24.7	25.1	23.3	23.8	23.7	24.2	24.5
8H	4H	24.0	24.5	24.3	24.8	25.2	23.4	23.9	23.8	24.3	24.6
	6H	23.9	24.3	24.3	24.7	25.1	23.3	23.7	23.7	24.1	24.5
	8H	23.8	24.2	24.3	24.6	25.0	23.3	23.6	23.7	24.0	24.5
	12H	23.7	24.1	24.2	24.5	25.0	23.2	23.5	23.7	24.0	24.4
12H	4H	23.9	24.4	24.3	24.7	25.1	23.4	23.8	23.8	24.2	24.6
	6H	23.8	24.2	24.3	24.6	25.0	23.3	23.6	23.7	24.0	24.5
	8H	23.7	24.1	24.2	24.5	25.0	23.2	23.5	23.7	24.0	24.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.9 / - 1.3					+ 1.2 / - 1.9					
1.5H	+ 1.1 / - 0.7					+ 1.1 / - 1.0					
2.0H	+ 1.8 / - 1.5					+ 2.4 / - 1.8					

CIE Pub.117, 853.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.6)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-02-27

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:221.1V I:0.0553A P:11.38W PF:0.9318 Freq:59.98Hz Lamp Flux:853.492x1 lm		
NAME: 1802LED	TYPE:	WEIGHT:
SPEC.:P-1802LED-10W2738-CI25034R90-HL600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0003	Shielding Angle:

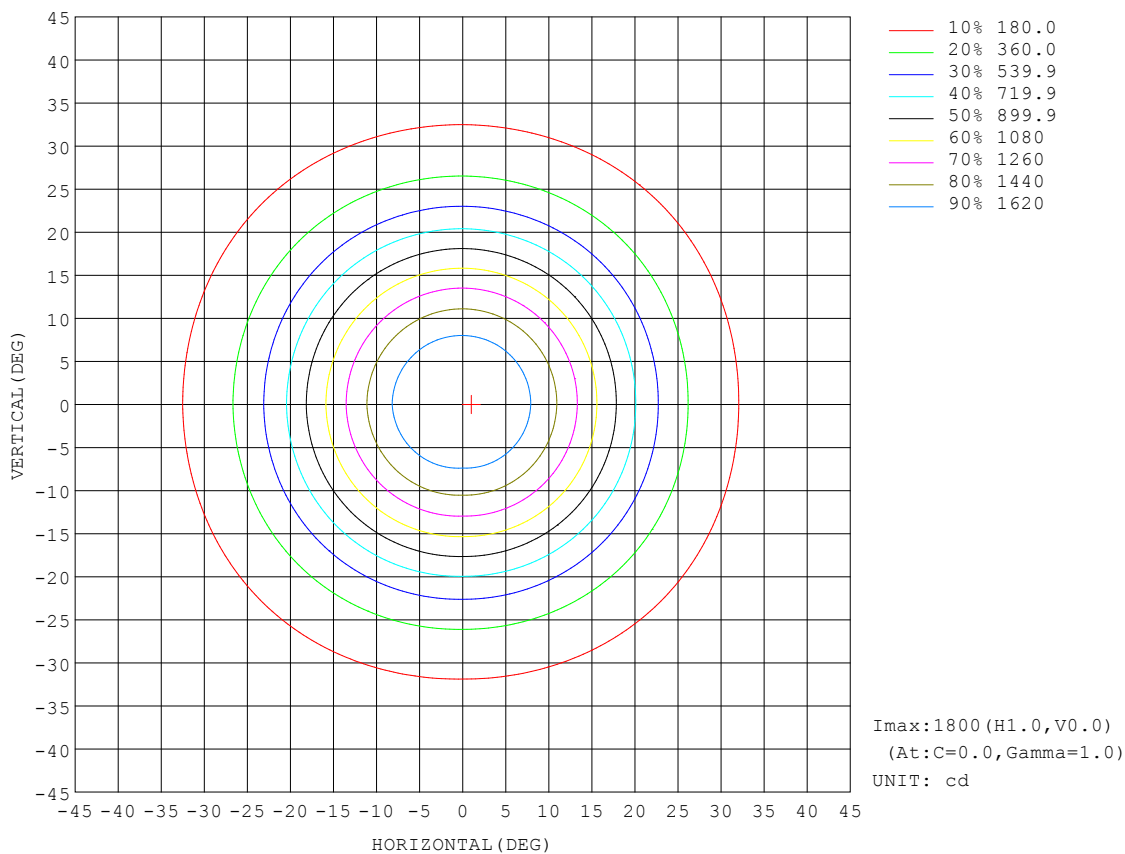
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	84	77	73	83	77	73	83	76	73	69
0.80	92	85	81	91	85	81	90	84	81	77
1.00	97	91	87	96	90	86	94	90	86	82
1.25	101	95	92	100	95	91	98	94	90	86
1.50	104	99	95	103	98	95	101	97	94	89
2.00	107	103	99	106	102	98	103	100	97	91
2.50	109	105	102	108	104	101	104	101	99	93
3.00	111	107	104	109	106	103	106	103	101	94
4.00	113	110	108	111	108	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	97
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:2020-02-27

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:221.1V I:0.0553A P:11.38W PF:0.9318 Freq:59.98Hz Lamp Flux:853.492x1 lm		
NAME: 1802LED	TYPE:	WEIGHT:
SPEC.:P-1802LED-10W2738-CI25034R90-HL600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0003	Shielding Angle:

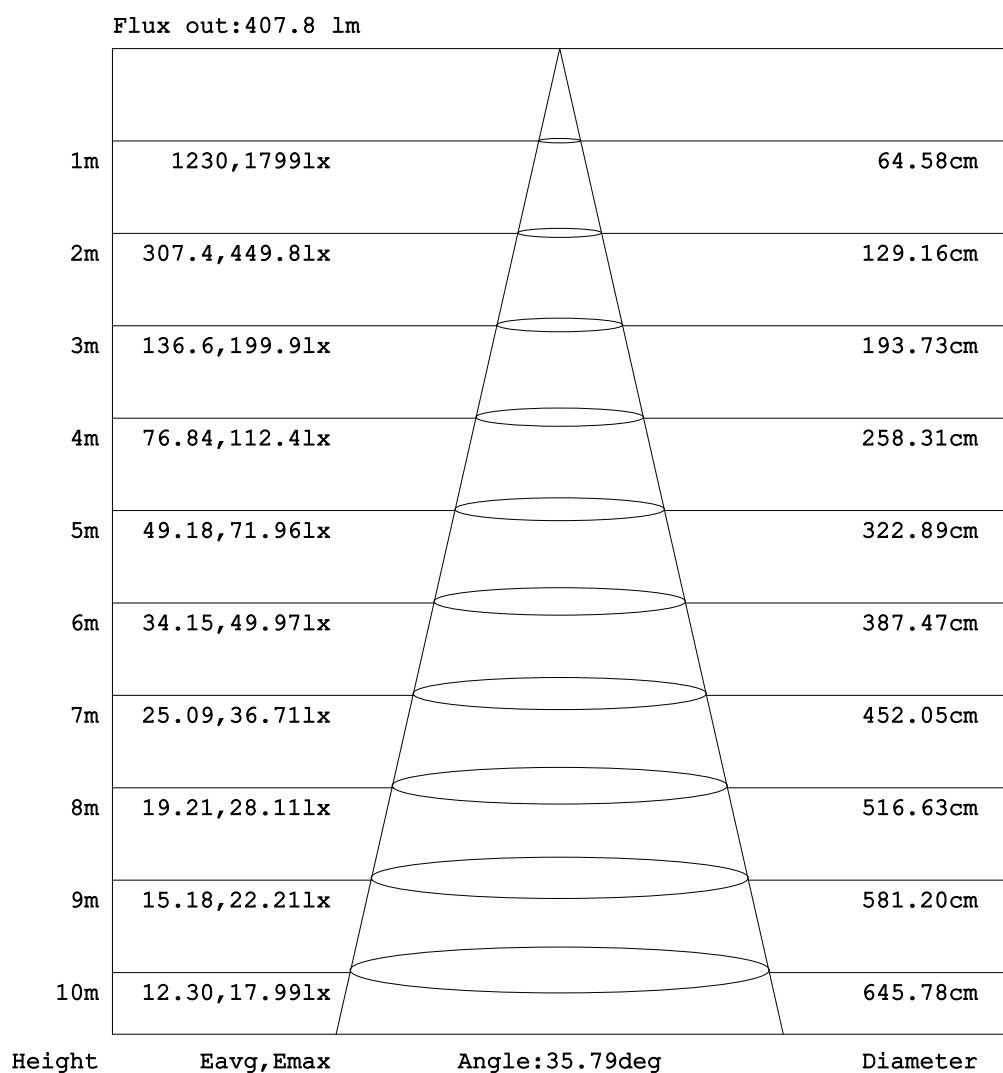


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2020-02-27

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:221.1V I:0.0553A P:11.38W PF:0.9318 Freq:59.98Hz Lamp Flux:853.492x1 lm		
NAME: 1802LED	TYPE:	WEIGHT:
SPEC.:P-1802LED-10W2738-CI25034R90-HL600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0003	Shielding Angle:



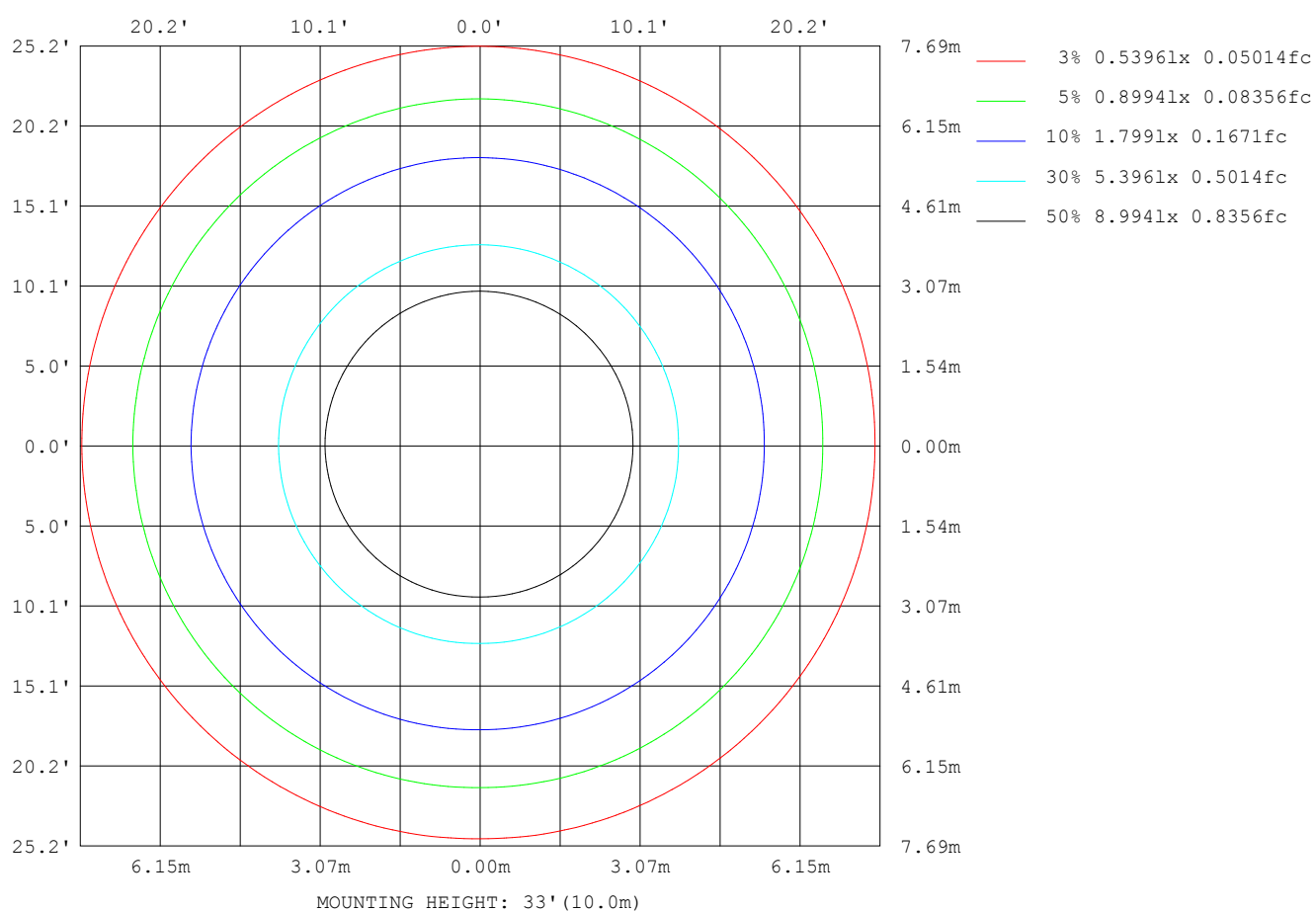
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Xie Bi
 Test Date: 2020-02-27

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:221.1V I:0.0553A P:11.38W PF:0.9318 Freq:59.98Hz Lamp Flux:853.492x1 lm		
NAME: 1802LED	TYPE:	WEIGHT:
SPEC.:P-1802LED-10W2738-CI25034R90-HL600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0003	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2020-02-27

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:221.1V I:0.0553A P:11.38W PF:0.9318 Freq:59.98Hz Lamp Flux:853.492x1 lm		
NAME: 1802LED	TYPE:	WEIGHT:
SPEC.:P-1802LED-10W2738-CI25034R90-HL600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0003	Shielding Angle:

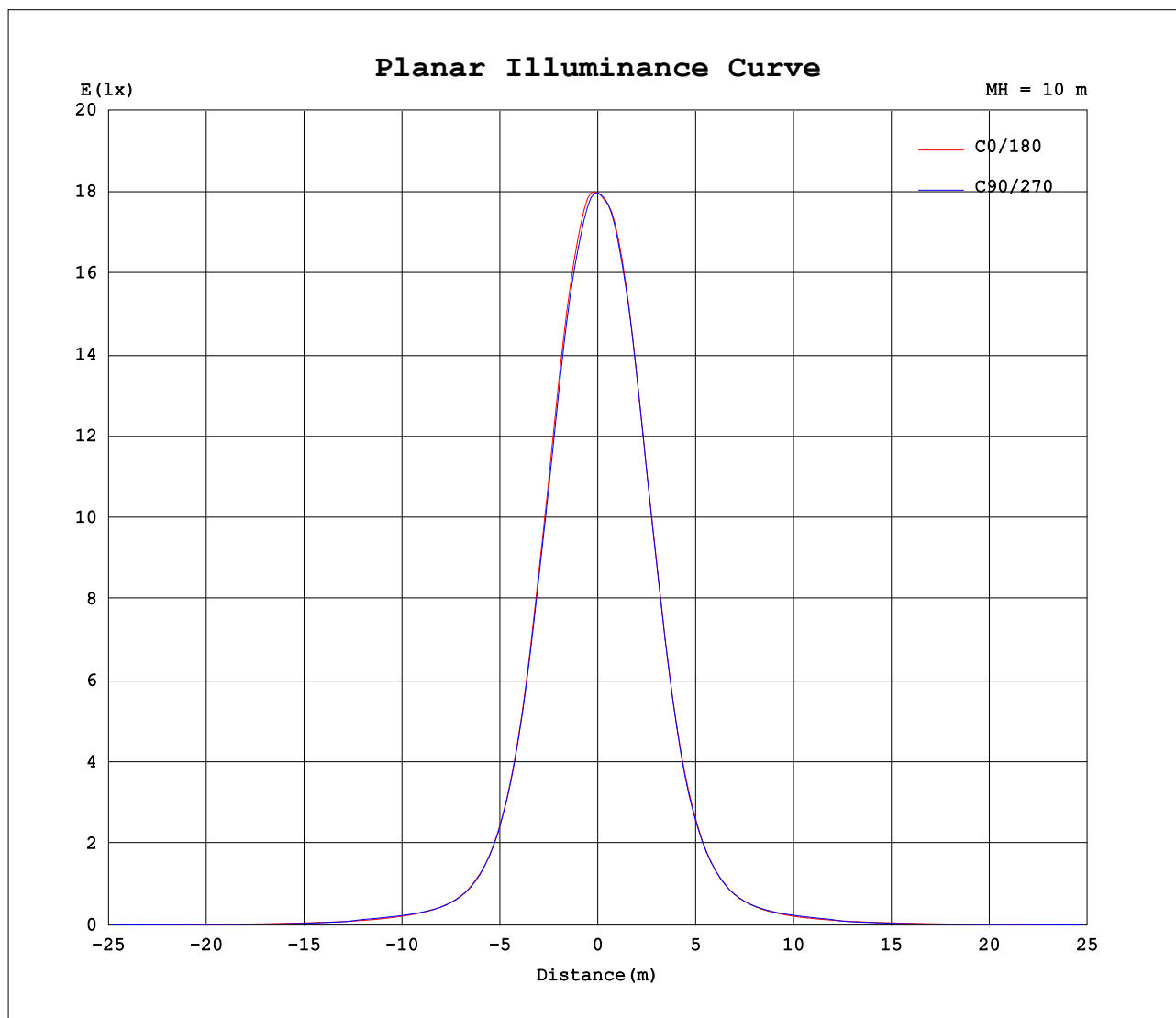
AvgL	cd/m2
L_0~180 (65) av	42890
L_0~180 (75) av	14657
L_0~180 (85) av	1999
L_90~270 (65) av	33289
L_90~270 (75) av	2746
L_90~270 (85) av	633
L_45 (65) av	37002
L_45 (75) av	7316
L_45 (85) av	1149

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2020-02-27

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: 2020-02-27

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:221.1V I:0.0553A P:11.38W PF:0.9318 Freq:59.98Hz Lamp Flux:853.492x1 lm		
NAME: 1802LED	TYPE:	WEIGHT:
SPEC.:P-1802LED-10W2738-CI25034R90-HL600	DIM.:	SERIAL No.:
MFR.: CETTIGA	SUR.:0.0003	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	1797	1797	1797	1797															
5	1738	1711	1743	1735															
10	1501	1476	1516	1513															
15	1125	1106	1148	1143															
20	727	716	754	750															
25	412	409	436	427															
30	226	225	241	239															
35	130	128	136	136															
40	84.7	86.3	86.9	89.8															
45	61.9	66.8	61.8	68.3															
50	45.4	53.6	46.7	53.2															
55	34.4	31.0	35.2	31.3															
60	25.2	20.3	26.7	20.6															
65	17.4	13.8	18.9	14.3															
70	11.3	4.42	13.3	4.75															
75	3.36	0.67	4.22	0.75															
80	0.54	0.23	0.57	0.33															
85	0.17	0.02	0.18	0.09															
90	0.01	0.01	0.01	0.02															
95	0.01	0.01	0.02	0.01															
100	0.01	0.02	0.03	0.01															
105	0.01	0.03	0.03	0.01															
110	0.01	0.05	0.05	0.03															
115	0.02	0.08	0.07	0.02															
120	0.07	0.11	0.09	0.03															
125	0.10	0.16	0.12	0.09															
130	0.19	0.23	0.16	0.10															
135	0.32	0.37	0.23	0.20															
140	0.56	0.62	0.35	0.28															
145	0.93	0.99	0.56	0.50															
150	1.42	1.48	0.88	0.83															
155	1.94	2.01	1.28	1.21															
160	2.41	2.49	1.71	1.63															
165	2.79	2.84	2.10	2.00															
170	2.98	3.05	2.44	2.34															
175	3.08	3.08	2.77	2.70															
180	3.05	3.07	3.01	3.04															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
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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:6.900m [K=1.0000]
Remarks: