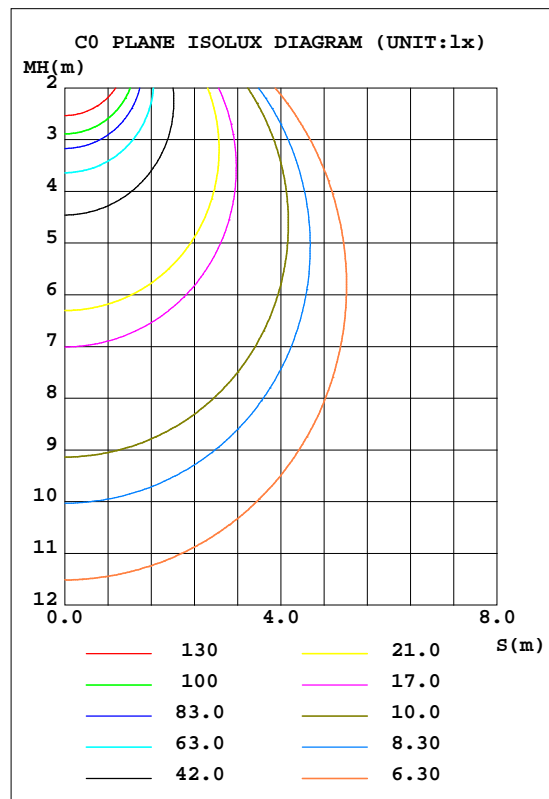
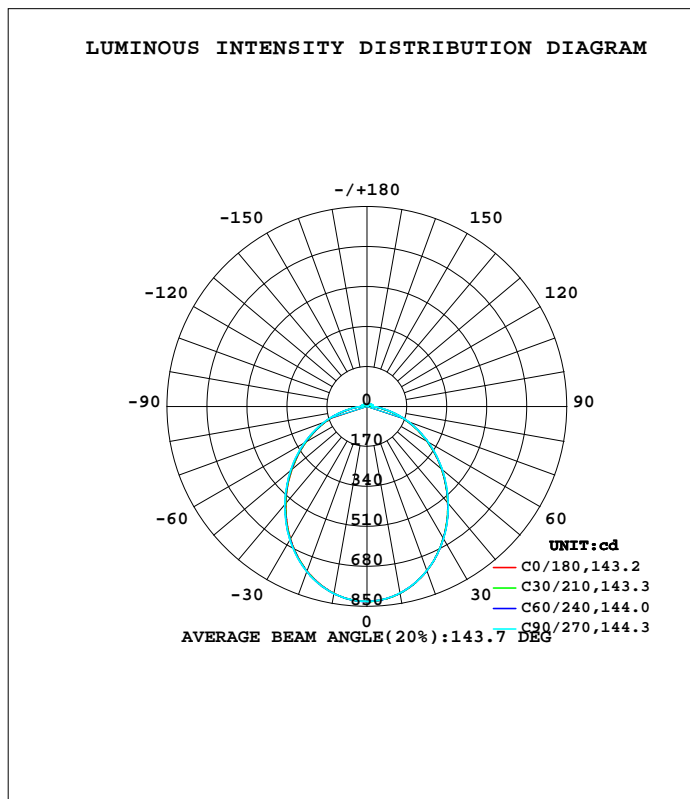


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.16V I:0.3667A P:42.945W PF:0.9747 Freq:59.98Hz Lamp Flux:2205.0lx1 lm		
NAME: LCFF-22-MCT5	TYPE:	WEIGHT:
SPEC.:45W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 51.35 lm/W			
MODEL	LCFF-22-MCT5	I _{max} (cd)	829.2	S/MH(C0/180)	1.18
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2205.0	h UP, DN(C0-180)	2.1,47.7
NOMINAL FLUX(lm)	2205.01	CIE CLASS	DIRECT	h UP, DN(C180-360)	2.0,48.1
LAMPS INSIDE	1	h up(%)	4.2	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	95.8	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-23

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	806.6	806.7	805.7	806.6	806.9	807.2	807.9	807.6	0- 10	78.06	78.06	3.54,3.54
20	743.7	744.6	743.0	744.2	745.2	745.7	747.8	746.0	10- 20	219.9	297.9	13.5,13.5
30	649.1	650.8	650.1	650.3	651.0	652.0	655.8	652.6	20- 30	322.8	620.7	28.2,28.2
40	535.1	537.9	537.8	537.5	537.1	539.1	543.9	539.7	30- 40	372.9	993.6	45.1,45.1
50	414.6	417.5	418.3	417.6	417.5	419.4	424.5	419.4	40- 50	369.4	1363	61.8,61.8
60	295.3	298.2	300.1	298.6	298.7	300.1	305.9	300.1	50- 60	320.8	1684	76.4,76.4
70	181.5	184.4	186.1	184.6	185.2	186.0	192.1	185.3	60- 70	239.4	1923	87.2,87.2
80	79.89	82.26	83.96	82.42	83.66	83.21	89.08	82.30	70- 80	140.3	2063	93.6,93.6
90	19.45	20.09	22.55	19.54	19.61	20.39	22.89	19.79	80- 90	49.96	2113	95.8,95.8
100	19.51	20.06	22.39	19.57	19.32	19.70	22.17	19.43	90-100	22.36	2136	96.9,96.9
110	18.53	18.87	21.08	18.50	18.21	18.01	20.46	18.02	100-110	20.72	2157	97.8,97.8
120	16.64	16.68	18.58	16.42	16.30	15.31	17.80	15.73	110-120	17.21	2174	98.6,98.6
130	13.91	13.56	14.60	13.49	13.35	12.32	13.70	12.78	120-130	13.14	2187	99.2,99.2
140	10.52	10.32	10.88	10.28	10.06	9.099	9.903	9.591	130-140	8.992	2196	99.6,99.6
150	7.261	7.178	7.340	7.110	7.314	6.164	6.472	6.617	140-150	5.276	2201	99.8,99.8
160	4.365	4.627	4.591	4.555	4.087	3.920	3.898	4.116	150-160	2.601	2204	99.9,99.9
170	3.008	3.108	3.163	3.098	2.888	2.731	2.749	2.808	160-170	1.023	2205	100,100
180	2.508	2.450	2.546	2.439	2.513	2.449	2.550	2.438	170-180	0.2523	2205	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-23

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.16V I:0.3667A P:42.945W PF:0.9747 Freq:59.98Hz Lamp Flux:2205.01x1 lm										
NAME: LCFE-22-MCT5					TYPE:			WEIGHT:		
SPEC.:45W					DIM.:			SERIAL No.:		
MFR.: LiBo					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	13.2	14.6	13.5	14.9	15.2	13.2	14.7	13.6	14.9	15.2
3H	14.6	15.9	15.0	16.3	16.6	14.7	16.0	15.0	16.3	16.6
4H	15.2	16.5	15.6	16.8	17.1	15.3	16.5	15.7	16.9	17.2
6H	15.6	16.8	16.0	17.2	17.5	15.8	16.9	16.1	17.3	17.6
8H	15.8	16.9	16.2	17.3	17.7	15.9	17.1	16.3	17.4	17.8
12H	15.9	17.0	16.3	17.4	17.8	16.1	17.2	16.5	17.5	17.9
4H 2H	13.8	15.0	14.1	15.3	15.7	13.8	15.0	14.2	15.4	15.7
3H	15.4	16.5	15.8	16.8	17.2	15.4	16.5	15.8	16.9	17.3
4H	16.1	17.1	16.5	17.5	17.9	16.2	17.2	16.6	17.6	18.0
6H	16.6	17.5	17.1	18.0	18.4	16.8	17.6	17.2	18.1	18.5
8H	16.9	17.7	17.3	18.1	18.6	17.0	17.8	17.5	18.3	18.7
12H	17.0	17.8	17.5	18.2	18.7	17.2	18.0	17.7	18.4	18.9
8H 4H	16.3	17.2	16.8	17.6	18.1	16.4	17.2	16.9	17.7	18.1
6H	17.0	17.7	17.6	18.2	18.7	17.2	17.8	17.7	18.3	18.8
8H	17.4	18.0	17.9	18.5	19.0	17.5	18.1	18.0	18.6	19.1
12H	17.6	18.2	18.2	18.7	19.2	17.8	18.3	18.3	18.8	19.4
12H 4H	16.3	17.1	16.8	17.6	18.0	16.4	17.2	16.9	17.6	18.1
6H	17.1	17.7	17.6	18.2	18.8	17.2	17.8	17.7	18.3	18.9
8H	17.5	18.0	18.0	18.5	19.1	17.6	18.1	18.1	18.6	19.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				

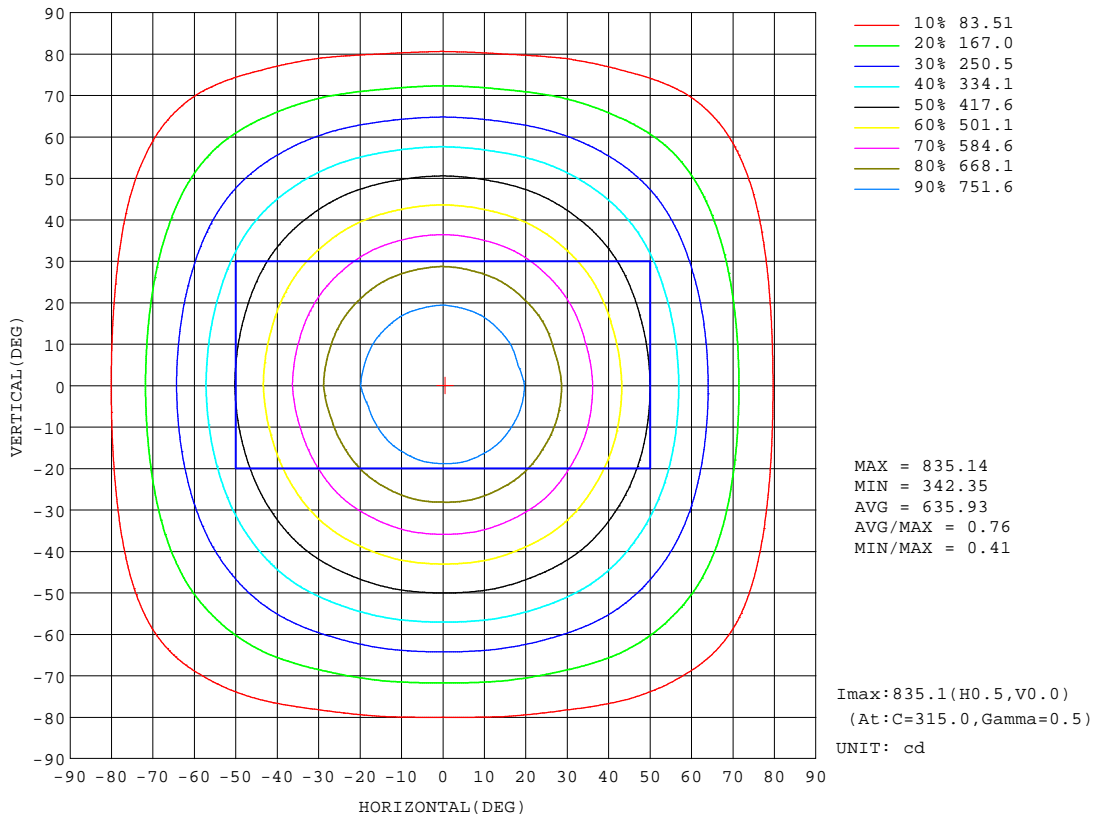
CIE Pub.117, 2205 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.7)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-23

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.16V I:0.3667A P:42.945W PF:0.9747 Freq:59.98Hz Lamp Flux:2205.0lx1 lm		
NAME: LCFE-22-MCT5	TYPE:	WEIGHT:
SPEC.:45W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



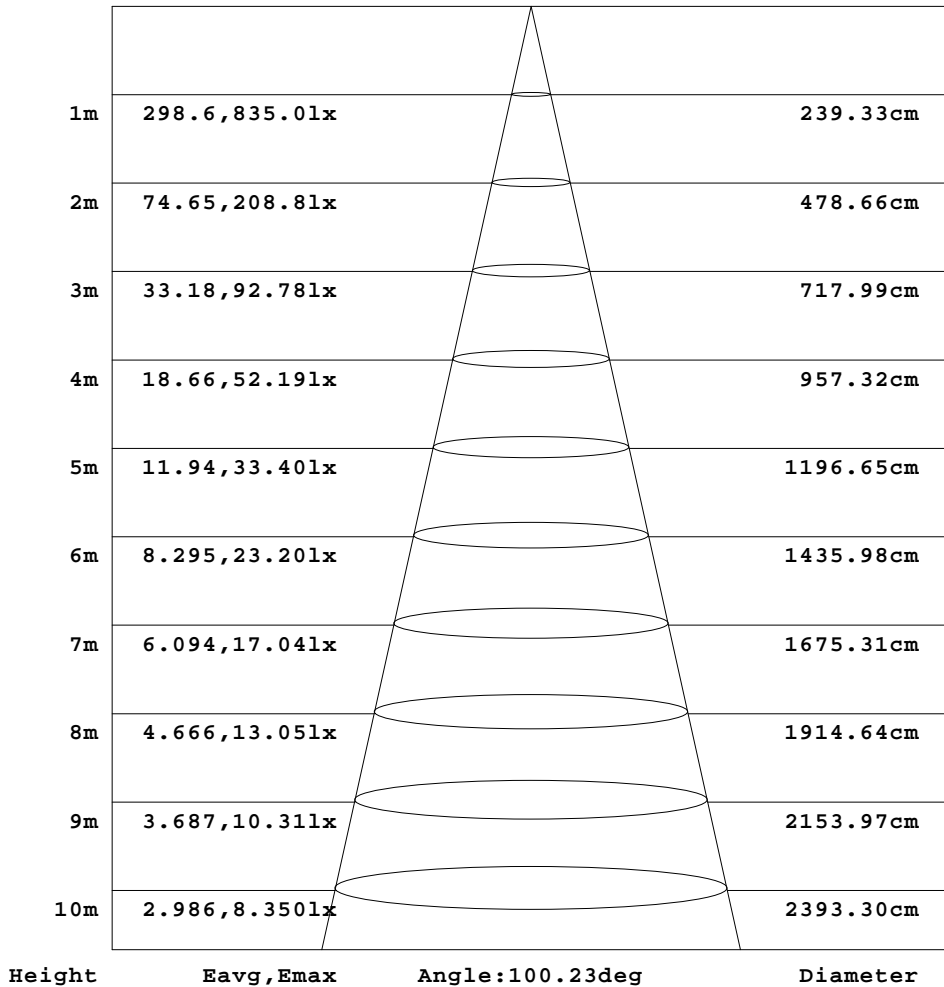
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-23

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.16V I:0.3667A P:42.945W PF:0.9747 Freq:59.98Hz Lamp Flux:2205.01x1 lm		
NAME: LCFE-22-MCT5	TYPE:	WEIGHT:
SPEC.:45W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:1381 lm



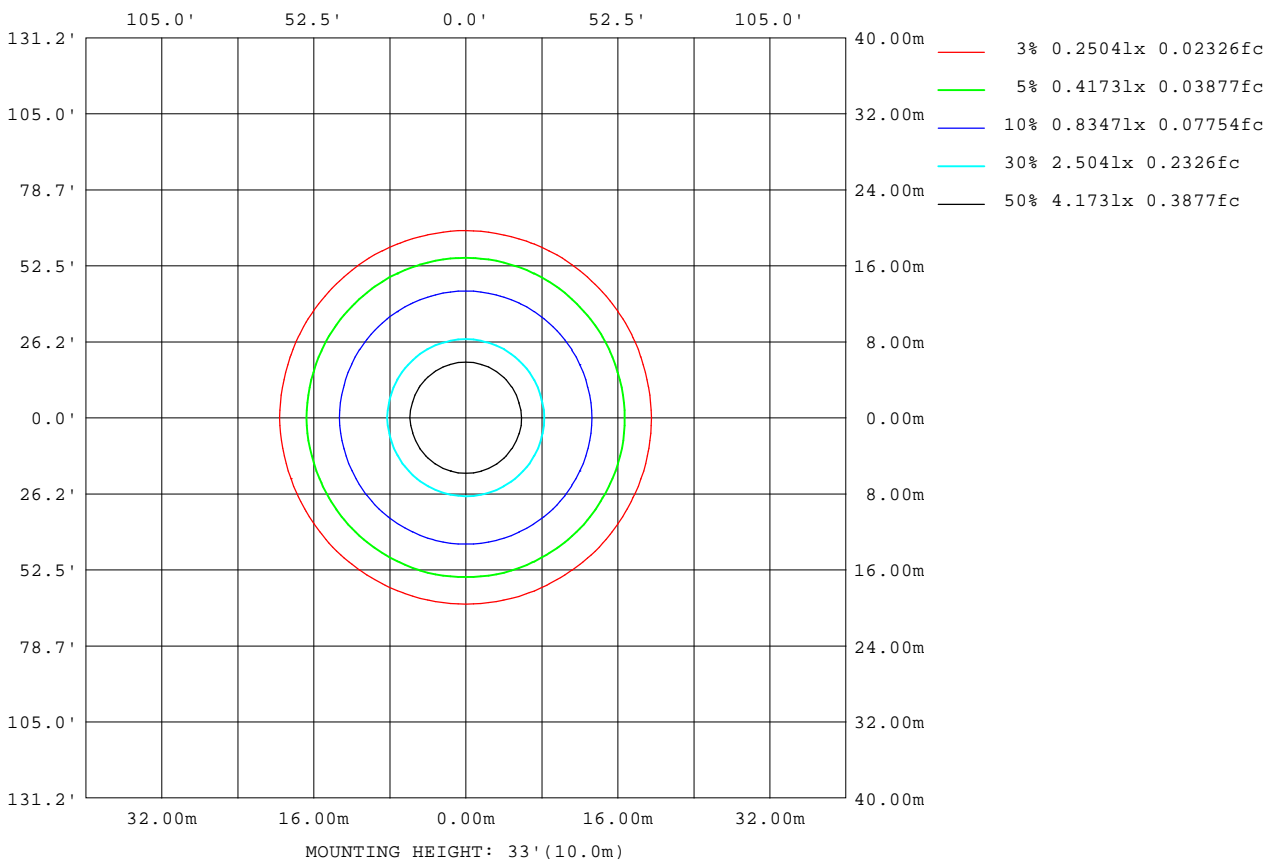
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-23

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.16V I:0.3667A P:42.945W PF:0.9747 Freq:59.98Hz Lamp Flux:2205.01x1 lm		
NAME: LCFE-22-MCT5	TYPE:	WEIGHT:
SPEC.:45W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-23

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:120.16V I:0.3667A P:42.945W PF:0.9747 Freq:59.98Hz Lamp Flux:2205.01x1 lm		
NAME: LCFF-22-MCT5	TYPE:	WEIGHT:
SPEC.:45W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

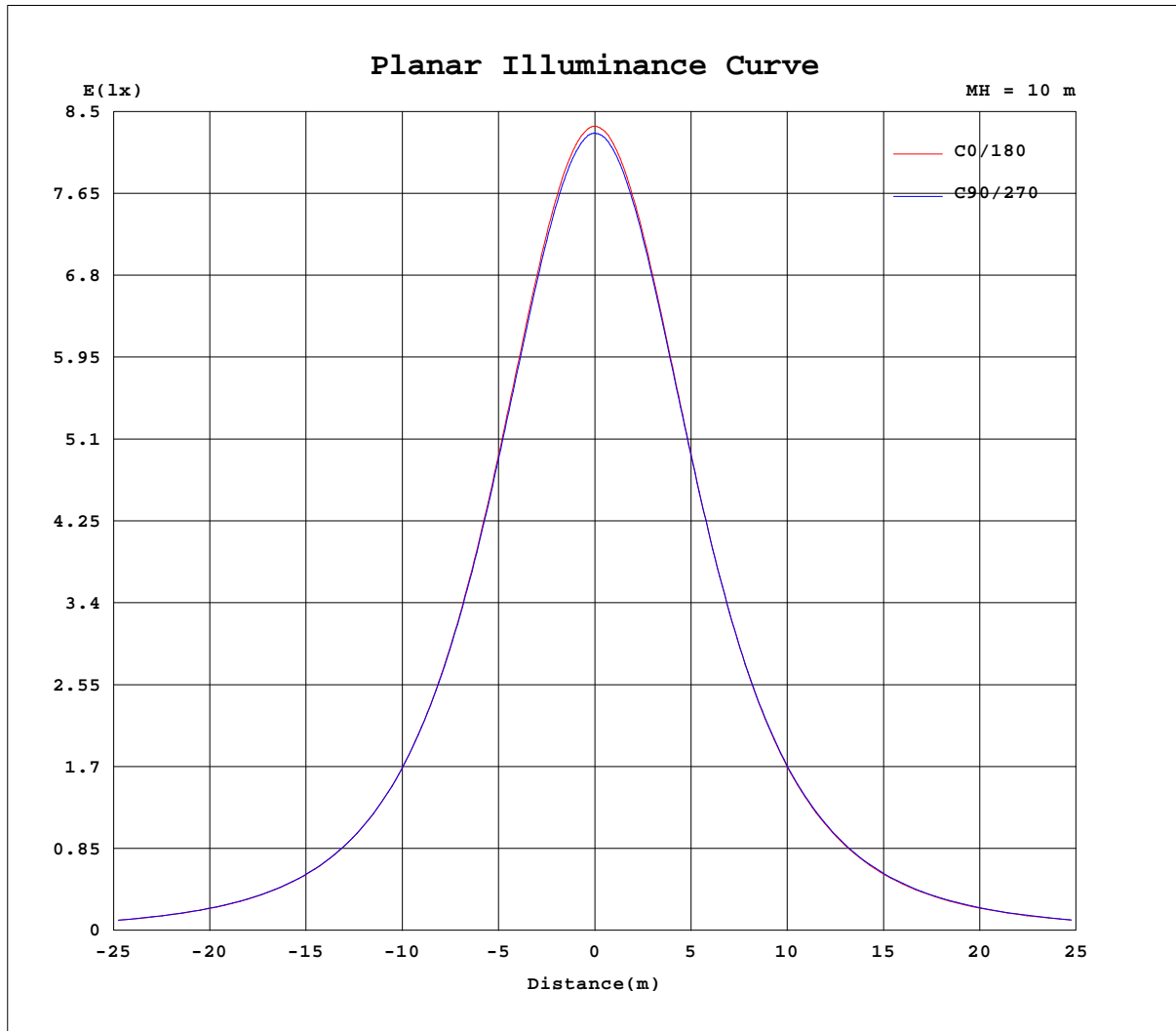
AvgL	cd/m2
L_0~180(65)av	1132
L_0~180(75)av	1006
L_0~180(85)av	960
L_90~270(65)av	1160
L_90~270(75)av	1051
L_90~270(85)av	1059
L_45(65)av	1142
L_45(75)av	1017
L_45(85)av	972

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-23

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-12-23

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 3.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.16V I:0.3667A P:42.945W PF:0.9747 Freq:59.98Hz Lamp Flux:2205.01x1 lm		
NAME: LCFE-22-MCT5	TYPE:	WEIGHT:
SPEC.:45W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	829	829	829	829	829	829	829	829	829	829	829	829	829	829	829	829	829	829	829
5	823	823	823	823	823	823	822	823	822	823	823	823	823	823	824	823	824	824	824
10	807	807	807	807	806	806	806	806	806	807	806	806	807	807	807	807	808	807	808
15	780	780	780	781	779	780	779	780	780	780	779	780	781	780	782	781	782	782	782
20	744	744	743	745	744	744	743	744	744	744	743	744	745	744	746	746	747	746	748
25	700	700	699	701	700	701	700	701	700	700	699	700	701	700	702	702	704	703	705
30	649	650	648	651	649	651	650	651	649	650	648	650	651	649	652	652	654	653	656
35	594	595	593	596	594	596	596	597	594	596	594	595	596	595	598	597	600	599	602
40	535	536	535	538	537	539	538	539	537	538	535	536	537	536	539	539	542	542	544
45	475	476	475	478	477	480	478	480	477	478	475	476	478	476	479	479	483	483	484
50	415	416	415	417	417	420	418	420	417	418	415	416	417	416	419	419	423	423	425
55	354	355	355	357	357	360	359	360	357	357	355	356	358	356	359	360	363	363	365
60	295	297	295	298	298	301	300	301	298	299	296	297	299	297	300	300	304	304	306
65	237	239	237	240	240	243	242	243	240	241	238	239	241	239	242	242	246	246	248
70	181	183	181	184	184	187	186	188	184	185	182	184	185	183	186	186	190	190	192
75	128	130	127	131	131	134	133	134	131	131	128	131	132	130	133	132	137	136	139
80	79.9	81.2	78.8	82.3	82.1	85.5	84.0	85.4	82.1	82.4	80.0	82.5	83.7	81.5	83.9	83.2	87.4	86.4	89.1
85	40.8	40.9	39.7	41.7	43.0	44.9	44.6	44.9	42.8	41.8	40.5	41.9	42.8	41.8	42.7	43.4	46.3	46.5	47.7
90	19.5	19.4	19.2	20.1	21.6	22.2	22.5	22.1	21.1	19.5	19.2	19.5	19.6	19.4	19.4	20.4	22.0	22.5	22.9
95	19.6	19.5	19.3	20.2	21.7	22.4	22.6	22.1	21.2	19.6	19.3	19.5	19.5	19.4	19.2	20.1	21.6	22.2	22.5
100	19.5	19.2	19.3	20.1	21.5	22.2	22.4	22.0	21.0	19.6	19.2	19.3	19.3	19.0	18.9	19.7	21.2	21.8	22.2
105	19.1	18.0	18.7	19.6	21.1	21.6	21.9	21.4	20.8	19.3	18.6	18.4	18.9	17.6	18.3	19.0	20.3	21.1	21.6
110	18.5	16.1	17.8	18.9	19.6	20.6	21.1	20.3	19.3	18.5	17.5	16.8	18.2	15.5	17.5	18.0	18.9	20.0	20.5
115	17.7	15.5	16.7	17.9	18.0	19.2	20.0	18.7	17.9	17.6	16.2	15.7	17.4	14.5	16.2	16.7	17.3	18.7	19.3
120	16.6	15.1	15.5	16.7	17.5	17.7	18.6	17.6	16.4	16.4	15.1	15.2	16.3	14.1	14.7	15.3	15.4	16.7	17.8
125	15.4	14.4	14.2	15.2	14.9	15.7	16.5	15.3	14.8	15.0	14.0	14.3	14.9	13.3	13.4	13.8	13.9	14.6	15.8
130	13.9	13.3	12.9	13.6	13.4	14.1	14.6	13.9	13.3	13.5	12.8	13.1	13.3	12.1	12.0	12.3	12.5	12.8	13.7
135	12.3	11.9	11.5	12.0	11.8	12.5	12.8	12.4	11.8	11.9	11.4	11.8	11.7	10.7	10.5	10.8	10.9	11.1	11.8
140	10.5	10.4	9.99	10.3	10.1	10.7	10.9	10.6	10.1	10.3	9.92	10.2	10.1	9.19	9.07	9.10	9.16	9.34	9.90
145	8.83	8.75	8.47	8.70	8.47	8.87	8.98	8.77	8.51	8.63	8.39	8.63	8.45	7.91	7.67	7.61	7.57	7.76	8.09
150	7.26	7.17	7.19	7.18	7.10	7.23	7.34	7.12	7.13	7.11	7.03	7.12	7.31	6.54	6.31	6.16	6.10	6.19	6.47
155	5.67	5.68	6.76	5.78	5.71	5.82	5.83	5.69	5.73	5.74	6.69	5.62	5.36	5.19	5.84	4.93	4.88	4.84	5.04
160	4.36	4.41	4.55	4.63	4.65	4.65	4.59	4.51	4.56	4.55	4.53	4.44	4.09	4.02	3.96	3.92	3.93	3.82	3.90
165	3.64	3.65	3.68	3.78	3.81	3.90	3.82	3.71	3.72	3.74	3.71	3.70	3.41	3.32	3.23	3.20	3.15	3.10	3.24
170	3.01	2.98	3.01	3.11	3.18	3.20	3.16	3.05	3.04	3.10	3.11	3.08	2.89	2.79	2.77	2.73	2.66	2.61	2.75
175	2.57	2.49	2.53	2.57	2.64	2.70	2.62	2.46	2.45	2.47	2.52	2.59	2.49	2.50	2.41	2.36	2.36	2.35	2.47
180	2.51	2.44	2.42	2.45	2.46	2.48	2.55	2.47	2.44	2.44	2.43	2.43	2.51	2.44	2.42	2.45	2.46	2.48	2.55

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-12-23

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.16V I:0.3667A P:42.945W PF:0.9747 Freq:59.98Hz Lamp Flux:2205.01x1 lm		
NAME: LCFF-22-MCT5	TYPE:	WEIGHT:
SPEC.:45W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--2 UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345															
0	829	829	829	829	829															
5	824	824	823	824	823															
10	808	808	808	808	807															
15	782	782	782	782	780															
20	747	747	746	747	744															
25	703	704	703	703	701															
30	654	655	653	653	650															
35	599	601	598	598	595															
40	542	543	540	539	537															
45	483	483	480	480	477															
50	423	423	419	419	416															
55	363	363	359	359	356															
60	304	304	300	300	297															
65	246	246	242	242	239															
70	189	190	185	185	183															
75	136	136	132	132	129															
80	86.2	86.8	82.3	83.0	80.5															
85	46.4	45.7	42.5	42.0	41.1															
90	22.5	21.7	19.8	19.6	19.3															
95	22.2	21.4	19.7	19.1	19.3															
100	21.8	21.1	19.4	18.9	19.0															
105	21.1	20.3	18.9	18.3	17.8															
110	19.9	19.1	18.0	17.3	16.1															
115	18.2	17.6	17.0	16.0	15.3															
120	16.4	16.1	15.7	14.9	14.9															
125	14.4	14.4	14.3	13.8	14.0															
130	12.9	12.9	12.8	12.6	12.9															
135	11.3	11.3	11.2	11.2	11.4															
140	9.52	9.67	9.59	9.62	9.85															
145	7.93	8.11	8.10	8.03	8.28															
150	6.41	6.60	6.62	6.64	6.70															
155	5.09	5.21	5.29	5.74	5.16															
160	4.02	4.08	4.12	4.19	4.09															
165	3.31	3.30	3.33	3.33	3.34															
170	2.78	2.84	2.81	2.75	2.76															
175	2.50	2.45	2.40	2.38	2.39															
180	2.47	2.44	2.44	2.43	2.43															

C Range: 0 - 360DEG	g Range: 0 - 180DEG
C Interval: 15.0DEG	g Interval: 0.5DEG
Test Speed: MEDIUM	Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:3.010m [K=1.0000]
Test Date:2020-12-23	Remarks: