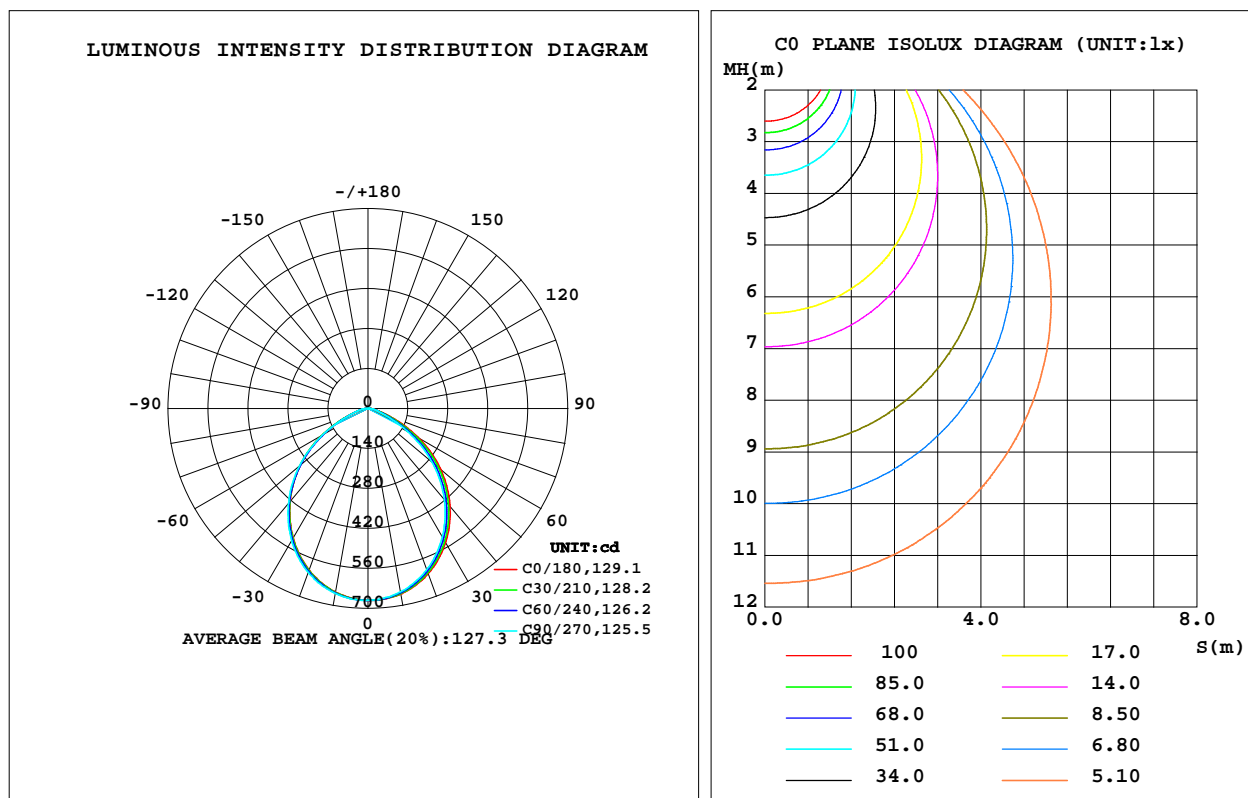


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.95V I:0.2072A P:24.574W PF:0.9888 Freq:59.98Hz Lamp Flux:1500.99x1 lm		
NAME: LCFD-MCT5	TYPE:0	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 61.08 lm/W			
MODEL	LCFD-MCT5	I _{max} (cd)	672.8	S/MH(C0/180)	1.17
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.19
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1501.0	h UP,DN(C0-180)	0.2,49.1
NOMINAL FLUX(lm)	1500.99	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.2,50.5
LAMPS INSIDE	1	h up(%)	0.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	99.6	CIBSE SHR MAX	1.30



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:29 October 2021

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	659.9	657.4	652.3	652.0	653.1	654.4	657.8	660.2	0- 10	63.39	63.39	4.22,4.22
20	615.6	610.2	601.2	599.5	602.2	604.8	611.4	615.8	10- 20	179.1	242.5	16.2,16.2
30	543.0	534.2	520.7	519.0	523.7	525.9	534.7	542.5	20- 30	263.3	505.8	33.7,33.7
40	446.9	434.2	416.6	417.1	423.9	424.7	433.4	445.5	30- 40	301.5	807.3	53.8,53.8
50	333.4	316.6	293.8	300.0	310.2	307.7	314.0	331.8	40- 50	287.7	1095	73,73
60	203.6	183.9	158.1	170.8	182.5	178.0	180.8	203.9	50- 60	222.1	1317	87.8,87.8
70	81.64	70.17	58.38	63.48	69.25	68.56	68.14	81.35	60- 70	120.7	1438	95.8,95.8
80	25.29	23.34	22.15	21.63	23.19	24.14	25.45	25.87	70- 80	44.62	1482	98.8,98.8
90	0.8223	0.9809	0.3459	1.108	0.3240	0.9463	0.6495	2.068	80- 90	12.52	1495	99.6,99.6
100	0.3569	0.3568	0.3415	0.3963	0.4178	0.3652	0.3268	0.3382	90-100	0.3731	1495	99.6,99.6
110	0.7224	0.7104	0.7052	0.7933	0.7885	0.7324	0.6663	0.7069	100-110	0.5705	1496	99.7,99.7
120	1.069	1.040	1.021	1.080	1.112	1.045	1.005	1.049	110-120	0.8835	1497	99.7,99.7
130	1.318	1.279	1.225	1.255	1.332	1.280	1.247	1.300	120-130	1.045	1498	99.8,99.8
140	1.477	1.426	1.325	1.326	1.474	1.396	1.374	1.459	130-140	1.040	1499	99.9,99.9
150	1.508	1.424	1.348	1.310	1.491	1.425	1.421	1.533	140-150	0.8910	1500	99.9,99.9
160	1.415	1.386	1.297	1.255	1.448	1.311	1.445	1.460	150-160	0.6560	1500	100,100
170	1.368	1.392	1.385	1.343	1.323	1.240	1.390	1.326	160-170	0.3824	1501	100,100
180	1.410	1.412	1.375	1.466	1.409	1.408	1.377	1.470	170-180	0.1283	1501	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:29 October 2021

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:119.95V I:0.2072A P:24.574W PF:0.9888 Freq:59.98Hz Lamp Flux:1500.99x1 lm											
NAME: LCFD-MCT5					TYPE:0			WEIGHT:			
SPEC.:25W					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	12H	12.4	13.8	12.7	14.0	14.2	11.6	13.0	11.9	13.2	13.4
	8H	13.1	14.3	13.4	14.6	14.8	12.0	13.3	12.3	13.5	13.7
	6H	13.2	14.4	13.5	14.7	14.9	12.1	13.3	12.4	13.6	13.8
	4H	13.3	14.4	13.6	14.7	14.9	12.2	13.3	12.5	13.6	13.8
	3H	13.3	14.4	13.6	14.6	14.9	12.2	13.3	12.5	13.5	13.8
	2H	13.3	14.3	13.6	14.6	14.9	12.2	13.2	12.5	13.5	13.8
4H	12H	12.6	13.9	13.0	14.1	14.4	11.9	13.2	12.3	13.4	13.7
	8H	13.4	14.4	13.8	14.7	15.0	12.5	13.5	12.8	13.8	14.1
	6H	13.6	14.5	14.0	14.9	15.2	12.6	13.6	13.0	13.9	14.2
	4H	13.7	14.6	14.1	14.9	15.3	12.8	13.6	13.2	14.0	14.3
	3H	13.8	14.5	14.2	14.9	15.3	12.8	13.6	13.2	14.0	14.4
	2H	13.8	14.5	14.3	14.9	15.3	12.8	13.6	13.3	13.9	14.4
8H	12H	13.6	14.4	14.0	14.7	15.1	12.7	13.4	13.1	13.8	14.2
	8H	13.8	14.4	14.2	14.8	15.3	12.9	13.5	13.3	13.9	14.4
	6H	13.9	14.4	14.3	14.9	15.3	13.0	13.5	13.4	14.0	14.4
	4H	14.0	14.5	14.5	14.9	15.4	13.1	13.5	13.5	14.0	14.5
12H	8H	13.6	14.3	14.0	14.7	15.1	12.6	13.4	13.1	13.7	14.2
	6H	13.8	14.3	14.2	14.8	15.2	12.9	13.5	13.4	13.9	14.3
	4H	13.9	14.4	14.4	14.8	15.3	13.0	13.5	13.5	13.9	14.4
Variations with the observer position at spacings:											
S = 1.0H		+ 0.4 / - 0.5				+ 0.5 / - 0.6					
1.5H		+ 0.3 / - 0.4				+ 0.2 / - 0.5					
2.0H		+ 0.8 / - 1.0				+ 0.8 / - 1.1					

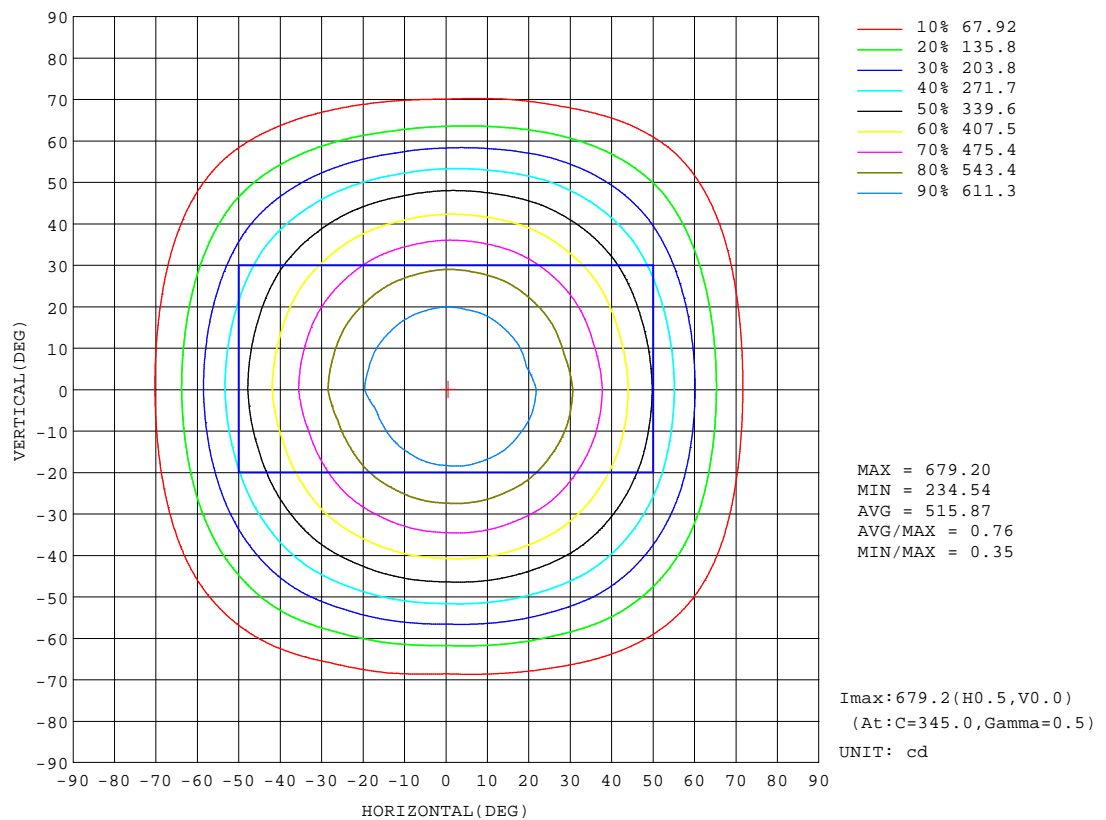
CIE Pub.117, 1501 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.4$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:29 October 2021

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:119.95V I:0.2072A P:24.574W PF:0.9888 Freq:59.98Hz Lamp Flux:1500.99x1 lm		
NAME: LCFD-MCT5	TYPE:0	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

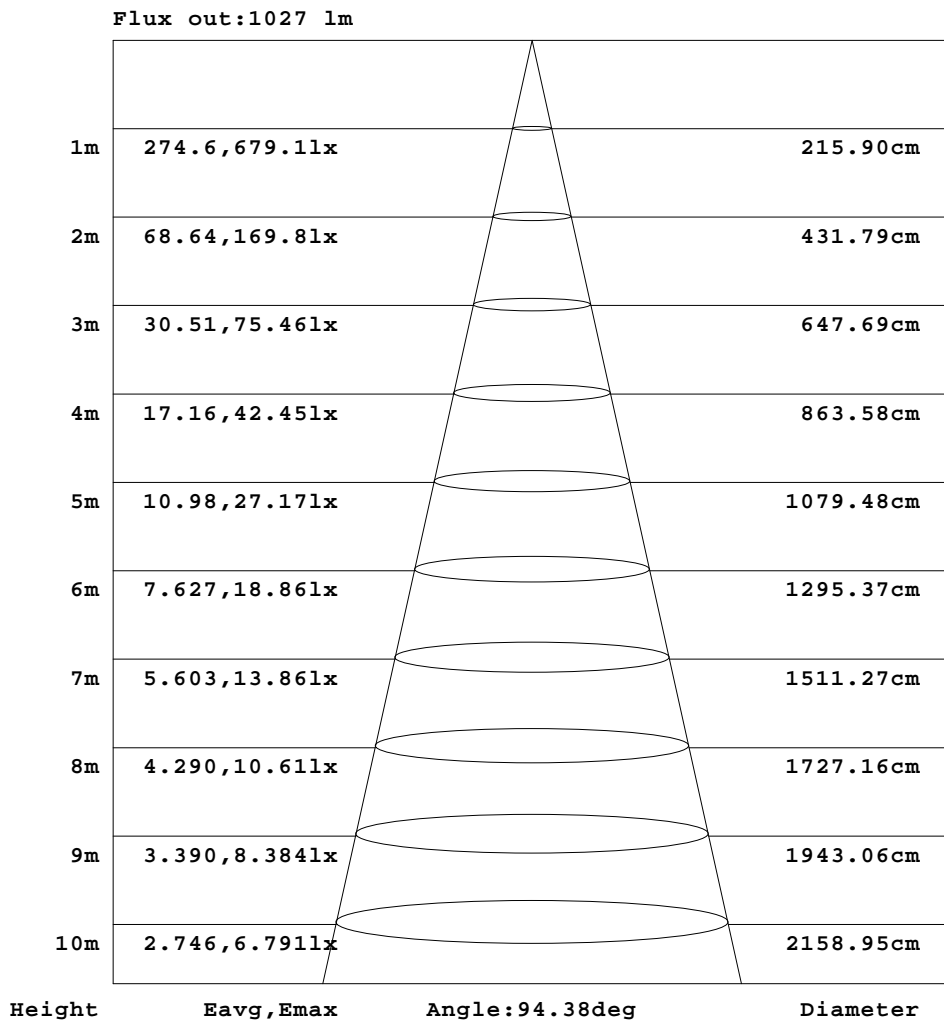


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 29 October 2021

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:119.95V I:0.2072A P:24.574W PF:0.9888 Freq:59.98Hz Lamp Flux:1500.99x1 lm		
NAME: LCFD-MCT5	TYPE:0	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



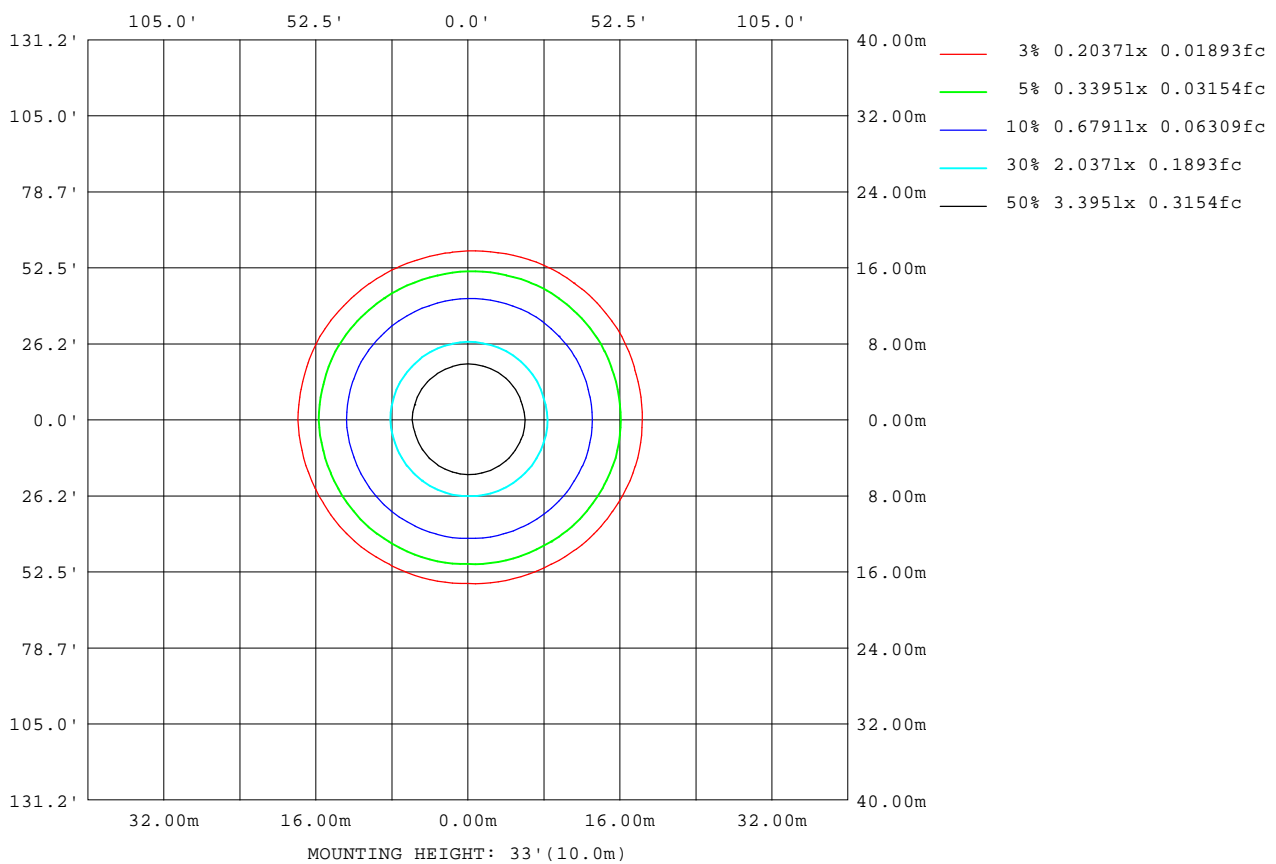
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:29 October 2021

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:119.95V I:0.2072A P:24.574W PF:0.9888 Freq:59.98Hz Lamp Flux:1500.99x1 lm		
NAME: LCFD-MCT5	TYPE:0	WEIGHT:
SPEC.:25W	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:29 October 2021

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:119.95V I:0.2072A P:24.574W PF:0.9888 Freq:59.98Hz Lamp Flux:1500.99x1 lm		
NAME: LCFD-MCT5	TYPE:0	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

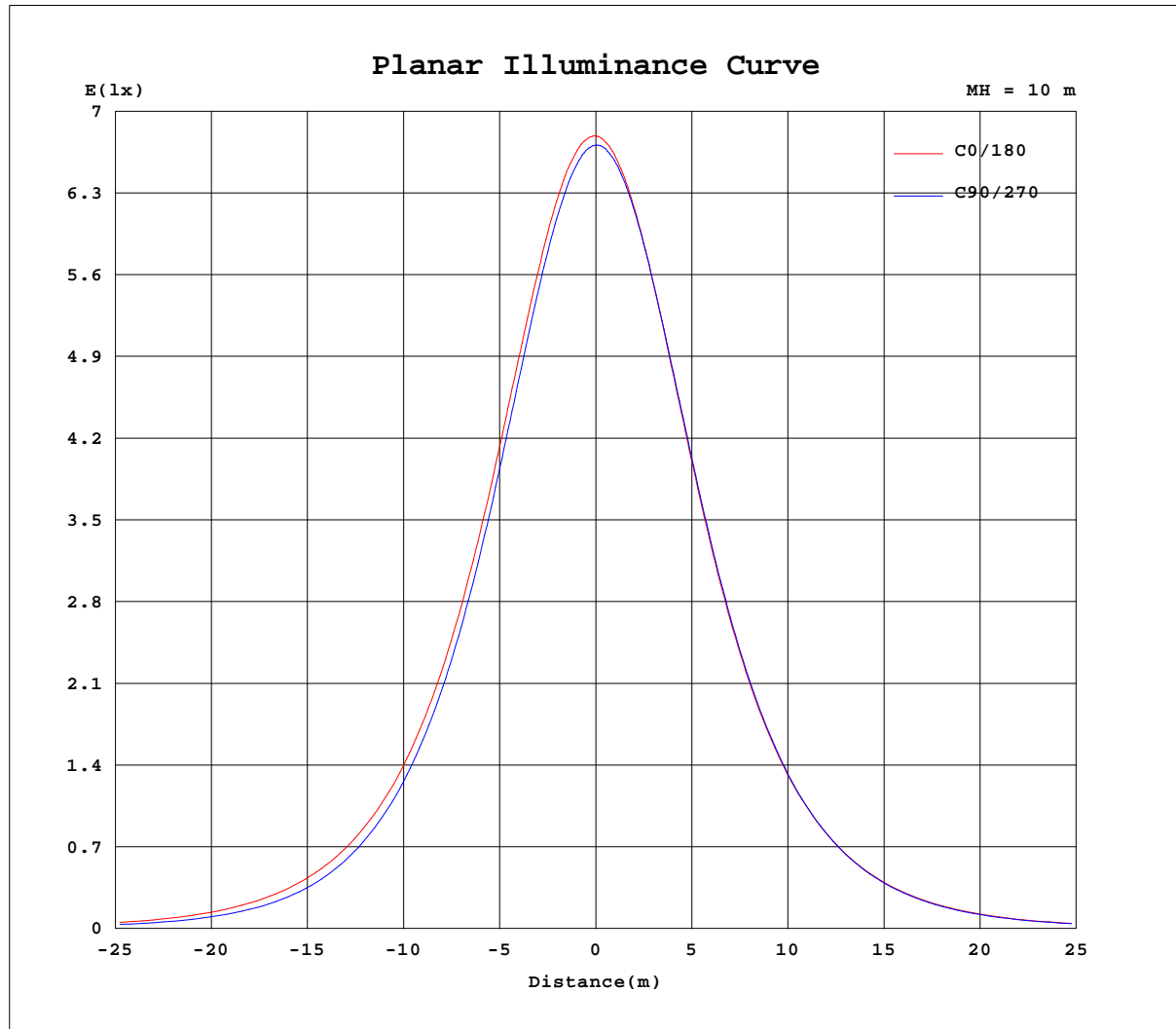
AvgL	cd/m2
L_0~180(65)av	611
L_0~180(75)av	317
L_0~180(85)av	287
L_90~270(65)av	510
L_90~270(75)av	296
L_90~270(85)av	244
L_45(65)av	575
L_45(75)av	306
L_45(85)av	254

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:29 October 2021

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: 29 October 2021

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:119.95V I:0.2072A P:24.574W PF:0.9888 Freq:59.98Hz Lamp Flux:1500.99x1 lm		
NAME: LCFD-MCT5	TYPE:0	WEIGHT:
SPEC.:25W	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	672	672	672	672	672	672	672	672	672	672	672	672	672	672	672	672	672	672	672
5	670	670	669	669	668	667	667	666	666	666	666	666	667	666	667	667	668	669	669
10	660	660	658	657	655	655	652	652	651	652	651	653	653	653	654	654	656	657	658
15	642	642	639	638	635	634	631	630	629	630	629	630	631	632	633	633	635	637	639
20	616	616	612	610	607	605	601	601	599	600	599	601	602	602	604	605	607	609	611
25	583	583	578	576	571	569	564	563	562	563	562	565	566	566	568	569	572	574	577
30	543	543	537	534	528	525	521	520	518	519	519	522	524	524	526	526	529	531	535
35	497	496	491	487	480	477	471	470	469	470	470	474	476	476	478	478	481	482	487
40	447	445	439	434	427	423	417	416	415	417	417	421	424	423	426	425	428	429	433
45	392	390	383	377	368	364	358	357	357	360	361	365	369	368	370	368	370	371	376
50	333	331	323	317	306	301	294	295	295	300	301	306	310	309	311	308	308	308	314
55	271	268	259	252	240	233	226	228	230	236	239	244	248	247	249	244	242	243	248
60	204	201	192	184	172	165	158	162	163	171	173	179	183	182	183	178	176	175	181
65	138	136	127	121	110	105	98.2	103	103	110	112	117	120	120	120	116	115	114	117
70	81.6	80.4	74.5	70.2	65.2	61.8	58.4	61.2	60.1	63.5	64.5	67.0	69.3	69.9	70.3	68.6	68.7	68.7	68.1
75	44.7	43.5	40.7	39.3	37.9	37.0	35.8	36.0	35.3	35.5	35.3	36.4	37.4	37.6	39.4	39.6	40.4	40.3	40.9
80	25.3	25.0	23.7	23.3	22.2	22.7	22.2	21.9	21.0	21.6	21.8	22.5	23.2	23.0	23.9	24.1	25.1	25.2	25.5
85	13.5	13.1	11.6	10.8	9.56	9.93	8.99	9.12	8.12	9.03	9.23	10.5	11.5	11.1	11.2	10.9	11.4	11.4	12.3
90	0.82	1.34	1.42	0.98	0.48	0.37	0.35	0.53	0.49	1.11	0.87	0.51	0.32	0.65	1.07	0.95	0.69	0.67	0.65
95	0.23	0.24	0.24	0.24	0.23	0.23	0.23	0.23	0.24	0.25	0.28	0.27	0.27	0.27	0.25	0.30	0.33	0.33	0.30
100	0.36	0.39	0.38	0.36	0.33	0.32	0.34	0.35	0.37	0.40	0.42	0.41	0.42	0.40	0.38	0.37	0.34	0.34	0.33
105	0.54	0.55	0.55	0.52	0.51	0.49	0.52	0.53	0.57	0.60	0.61	0.58	0.60	0.60	0.57	0.54	0.51	0.49	0.48
110	0.72	0.72	0.73	0.71	0.70	0.68	0.71	0.72	0.75	0.79	0.80	0.76	0.79	0.77	0.74	0.73	0.70	0.68	0.67
115	0.90	0.90	0.90	0.89	0.88	0.86	0.87	0.89	0.92	0.95	0.95	0.91	0.95	0.93	0.91	0.90	0.87	0.86	0.85
120	1.07	1.06	1.06	1.04	1.03	1.01	1.02	1.03	1.07	1.08	1.07	1.05	1.11	1.08	1.06	1.05	1.03	1.01	1.01
125	1.21	1.18	1.19	1.17	1.16	1.13	1.14	1.14	1.18	1.17	1.15	1.16	1.23	1.19	1.18	1.18	1.15	1.13	1.14
130	1.32	1.29	1.29	1.28	1.26	1.24	1.23	1.22	1.28	1.25	1.22	1.26	1.33	1.30	1.29	1.28	1.26	1.22	1.25
135	1.41	1.36	1.37	1.35	1.35	1.33	1.30	1.28	1.32	1.28	1.27	1.33	1.42	1.40	1.38	1.35	1.32	1.30	1.35
140	1.48	1.43	1.42	1.43	1.39	1.36	1.32	1.29	1.33	1.33	1.29	1.34	1.47	1.45	1.42	1.40	1.35	1.32	1.37
145	1.53	1.47	1.45	1.44	1.41	1.39	1.35	1.30	1.32	1.32	1.34	1.38	1.52	1.51	1.49	1.40	1.36	1.34	1.40
150	1.51	1.51	1.47	1.42	1.40	1.41	1.35	1.31	1.32	1.31	1.33	1.36	1.49	1.52	1.46	1.42	1.33	1.36	1.42
155	1.48	1.52	1.49	1.43	1.41	1.37	1.30	1.30	1.28	1.30	1.30	1.30	1.46	1.49	1.45	1.40	1.36	1.35	1.42
160	1.41	1.49	1.45	1.39	1.37	1.32	1.30	1.27	1.28	1.25	1.25	1.22	1.45	1.47	1.43	1.31	1.34	1.37	1.45
165	1.32	1.40	1.39	1.40	1.34	1.29	1.30	1.30	1.33	1.28	1.23	1.08	1.30	1.30	1.27	1.32	1.32	1.36	1.37
170	1.37	1.40	1.44	1.39	1.35	1.35	1.39	1.39	1.39	1.34	1.25	1.12	1.32	1.28	1.25	1.24	1.33	1.39	1.39
175	1.38	1.41	1.42	1.41	1.36	1.38	1.39	1.44	1.46	1.38	1.26	1.17	1.29	1.26	1.24	1.29	1.33	1.33	1.32
180	1.41	1.39	1.40	1.41	1.38	1.39	1.38	1.39	1.43	1.47	1.39	1.34	1.41	1.39	1.41	1.41	1.38	1.39	1.38

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:29 October 2021

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:119.95V I:0.2072A P:24.574W PF:0.9888 Freq:59.98Hz Lamp Flux:1500.99x1 lm		
NAME: LCFD-MCT5	TYPE:0	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	672	672	672	672	672														
5	669	670	670	670	670														
10	658	660	660	661	661														
15	639	642	642	643	643														
20	612	616	616	618	617														
25	578	582	583	585	584														
30	536	541	542	545	545														
35	489	495	496	500	499														
40	437	443	445	450	449														
45	380	387	390	395	395														
50	319	328	332	337	336														
55	255	265	270	275	274														
60	188	198	204	209	207														
65	125	133	139	143	141														
70	73.2	76.2	81.4	86.5	84.5														
75	41.2	42.7	44.2	46.8	46.2														
80	25.0	25.7	25.9	26.7	26.3														
85	12.2	13.3	13.6	14.7	14.8														
90	0.44	1.06	2.07	2.43	1.55														
95	0.27	0.22	0.22	0.23	0.23														
100	0.33	0.33	0.34	0.35	0.36														
105	0.48	0.50	0.51	0.53	0.55														
110	0.67	0.68	0.71	0.72	0.74														
115	0.85	0.86	0.89	0.90	0.91														
120	1.01	1.02	1.05	1.06	1.08														
125	1.14	1.16	1.19	1.19	1.21														
130	1.25	1.29	1.30	1.31	1.33														
135	1.35	1.37	1.39	1.40	1.42														
140	1.38	1.45	1.46	1.48	1.48														
145	1.42	1.46	1.51	1.51	1.53														
150	1.46	1.49	1.53	1.56	1.55														
155	1.50	1.50	1.51	1.57	1.56														
160	1.49	1.46	1.46	1.50	1.53														
165	1.41	1.42	1.38	1.40	1.41														
170	1.35	1.31	1.33	1.38	1.40														
175	1.31	1.29	1.35	1.38	1.36														
180	1.39	1.44	1.47	1.39	1.33														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:29 October 2021

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: