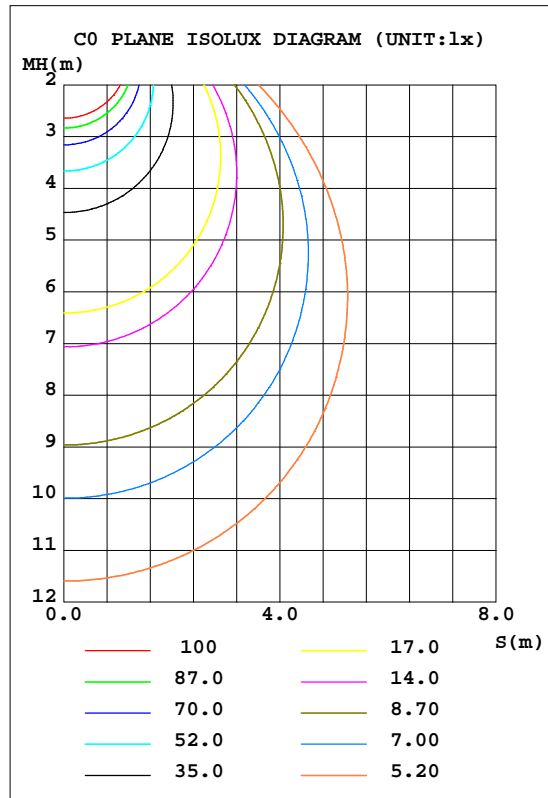
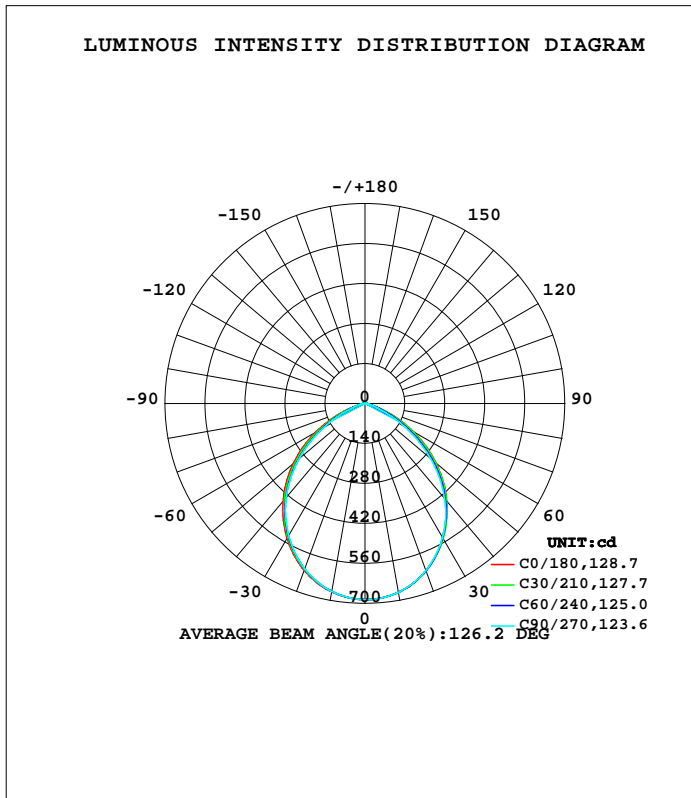


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:0.2091A P:24.814W PF:0.9886 Freq:59.98Hz Lamp Flux:1497.79x1 lm		
NAME: LCFC-MCT5	TYPE:0	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 60.36 lm/W
MODEL	LCFC-MCT5	I <sub>max</sub> (cd)	687.1	S/MH(C0/180)	1.19	
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.17	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1497.8	h UP, DN(C0-180)	0.2,50.0	
NOMINAL FLUX(lm)	1497.79	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.2,49.6	
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	671.3	672.6	671.7	671.7	670.2	668.0	668.4	669.0	0- 10	64.75	64.75	4.32,4.32
20	623.6	626.1	623.0	624.6	622.0	617.2	616.9	619.4	10- 20	183.1	247.8	16.5,16.5
30	545.7	547.6	542.3	547.1	545.3	536.9	534.7	539.7	20- 30	269.2	517.1	34.5,34.5
40	444.9	444.3	433.7	445.8	446.0	433.8	429.1	437.4	30- 40	308.0	825.1	55.1,55.1
50	325.0	319.0	299.7	322.6	327.8	309.7	302.1	314.9	40- 50	291.9	1117	74.6,74.6
60	192.3	182.7	155.6	187.8	196.9	176.2	166.0	182.7	50- 60	221.0	1338	89.3,89.3
70	69.93	62.11	47.33	64.91	73.87	59.54	51.93	64.57	60- 70	116.0	1454	97.1,97.1
80	11.27	11.07	10.73	10.90	11.65	12.42	12.62	12.25	70- 80	31.56	1485	99.2,99.2
90	0.2321	1.035	0.4896	1.280	0.4498	1.213	0.5320	1.989	80- 90	6.282	1492	99.6,99.6
100	0.3650	0.3116	0.2883	0.3290	0.3715	0.3413	0.3780	0.3519	90-100	0.3542	1492	99.6,99.6
110	0.7677	0.6850	0.6585	0.7139	0.7607	0.7296	0.6748	0.7580	100-110	0.5610	1493	99.7,99.7
120	1.132	1.046	1.009	1.024	1.114	1.081	1.052	1.128	110-120	0.8870	1494	99.7,99.7
130	1.364	1.299	1.218	1.213	1.329	1.323	1.299	1.377	120-130	1.068	1495	99.8,99.8
140	1.525	1.448	1.320	1.265	1.507	1.431	1.429	1.529	130-140	1.062	1496	99.9,99.9
150	1.559	1.459	1.383	1.231	1.545	1.467	1.504	1.605	140-150	0.9128	1497	99.9,99.9
160	1.451	1.430	1.319	1.222	1.464	1.359	1.502	1.518	150-160	0.6711	1497	100,100
170	1.407	1.430	1.414	1.364	1.363	1.277	1.438	1.369	160-170	0.3911	1498	100,100
180	1.465	1.451	1.416	1.506	1.468	1.449	1.416	1.508	170-180	0.1307	1498	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:120.05V I:0.2091A P:24.814W PF:0.9886 Freq:59.98Hz Lamp Flux:1497.79x1 lm										
NAME: LCFC-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	12.3	13.7	12.6	13.9	14.1	11.6	13.0	11.9	13.2	13.4
3H	12.9	14.1	13.2	14.4	14.6	11.9	13.2	12.2	13.4	13.6
4H	12.9	14.1	13.2	14.3	14.6	11.9	13.1	12.2	13.3	13.6
6H	12.9	14.0	13.2	14.2	14.5	11.8	13.0	12.2	13.2	13.5
8H	12.8	13.9	13.2	14.2	14.5	11.8	12.9	12.1	13.2	13.4
12H	12.8	13.8	13.1	14.1	14.4	11.8	12.8	12.1	13.1	13.4
4H 2H	12.6	13.8	12.9	14.0	14.3	12.0	13.1	12.3	13.4	13.6
3H	13.2	14.2	13.5	14.5	14.8	12.3	13.4	12.7	13.6	13.9
4H	13.2	14.2	13.6	14.5	14.8	12.3	13.3	12.7	13.6	13.9
6H	13.2	14.0	13.6	14.4	14.8	12.3	13.1	12.7	13.5	13.9
8H	13.2	14.0	13.6	14.3	14.7	12.3	13.1	12.7	13.4	13.8
12H	13.2	13.9	13.6	14.2	14.7	12.3	13.0	12.7	13.3	13.8
8H 4H	13.2	13.9	13.6	14.3	14.7	12.3	13.1	12.7	13.4	13.8
6H	13.2	13.8	13.6	14.2	14.6	12.3	12.9	12.7	13.3	13.8
8H	13.2	13.7	13.6	14.1	14.6	12.3	12.8	12.8	13.3	13.7
12H	13.2	13.6	13.6	14.1	14.6	12.3	12.8	12.8	13.2	13.7
12H 4H	13.1	13.8	13.6	14.2	14.6	12.3	13.0	12.7	13.3	13.8
6H	13.1	13.7	13.6	14.1	14.6	12.3	12.8	12.7	13.2	13.7
8H	13.1	13.6	13.6	14.1	14.5	12.3	12.7	12.8	13.2	13.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.6					+ 0.6 / - 0.8				
1.5H	+ 0.3 / - 0.5					+ 0.3 / - 0.5				
2.0H	+ 0.9 / - 1.1					+ 1.0 / - 1.4				

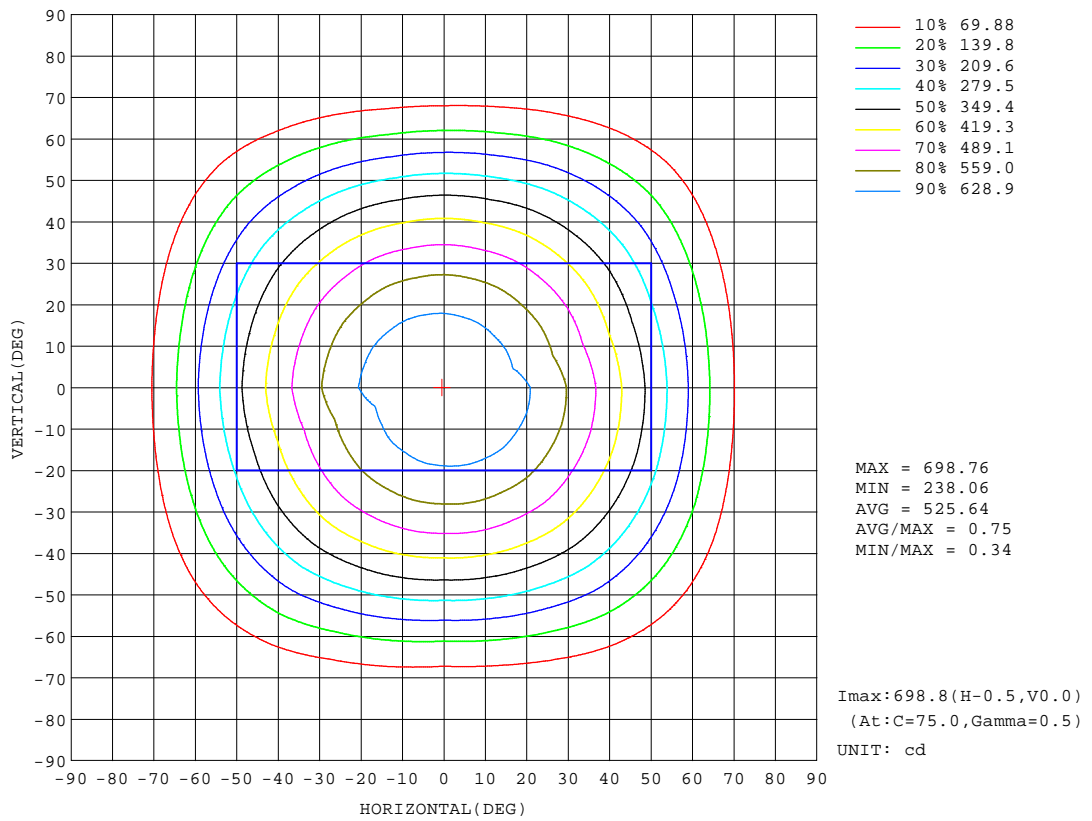
CIE Pub.117, 1498 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.4)

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:120.05V I:0.2091A P:24.814W PF:0.9886 Freq:59.98Hz Lamp Flux:1497.79x1 lm		
NAME: LCFC-MCT5	TYPE:0	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



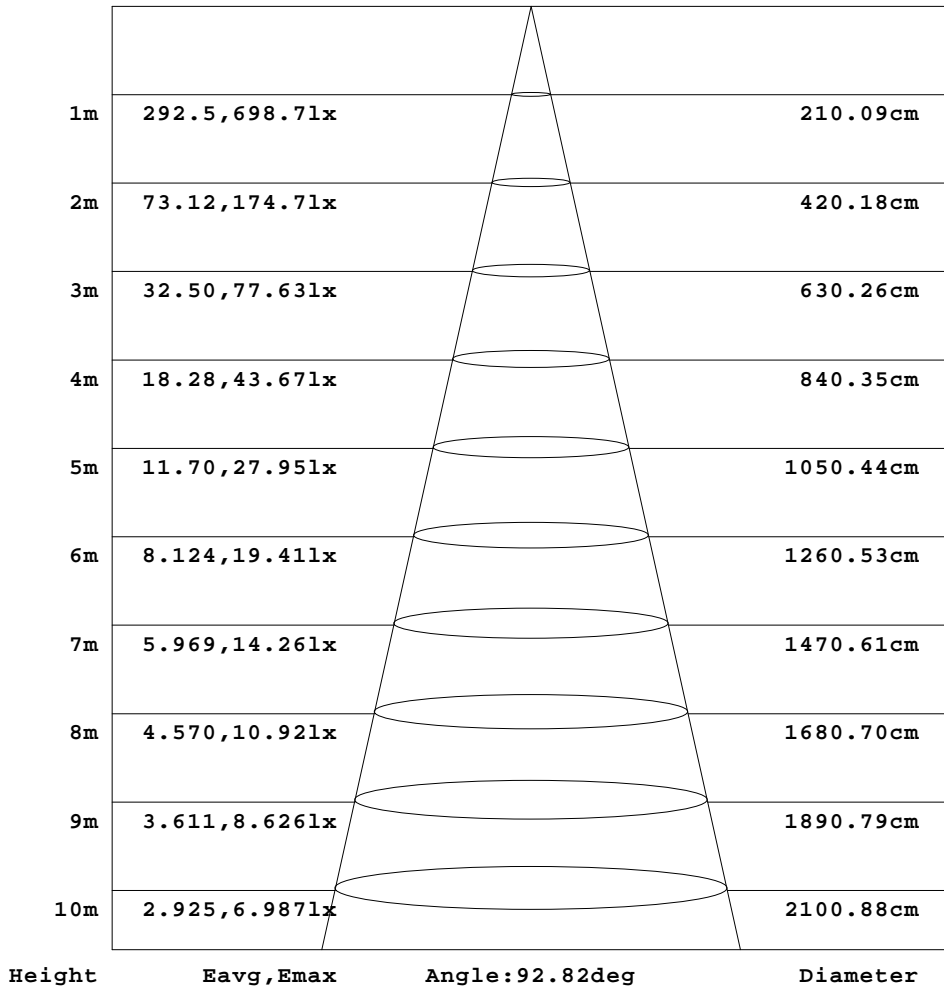
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:29 October 2021

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:120.05V I:0.2091A P:24.814W PF:0.9886 Freq:59.98Hz Lamp Flux:1497.79x1 lm		
NAME: LCFC-MCT5	TYPE:0	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:1020 lm



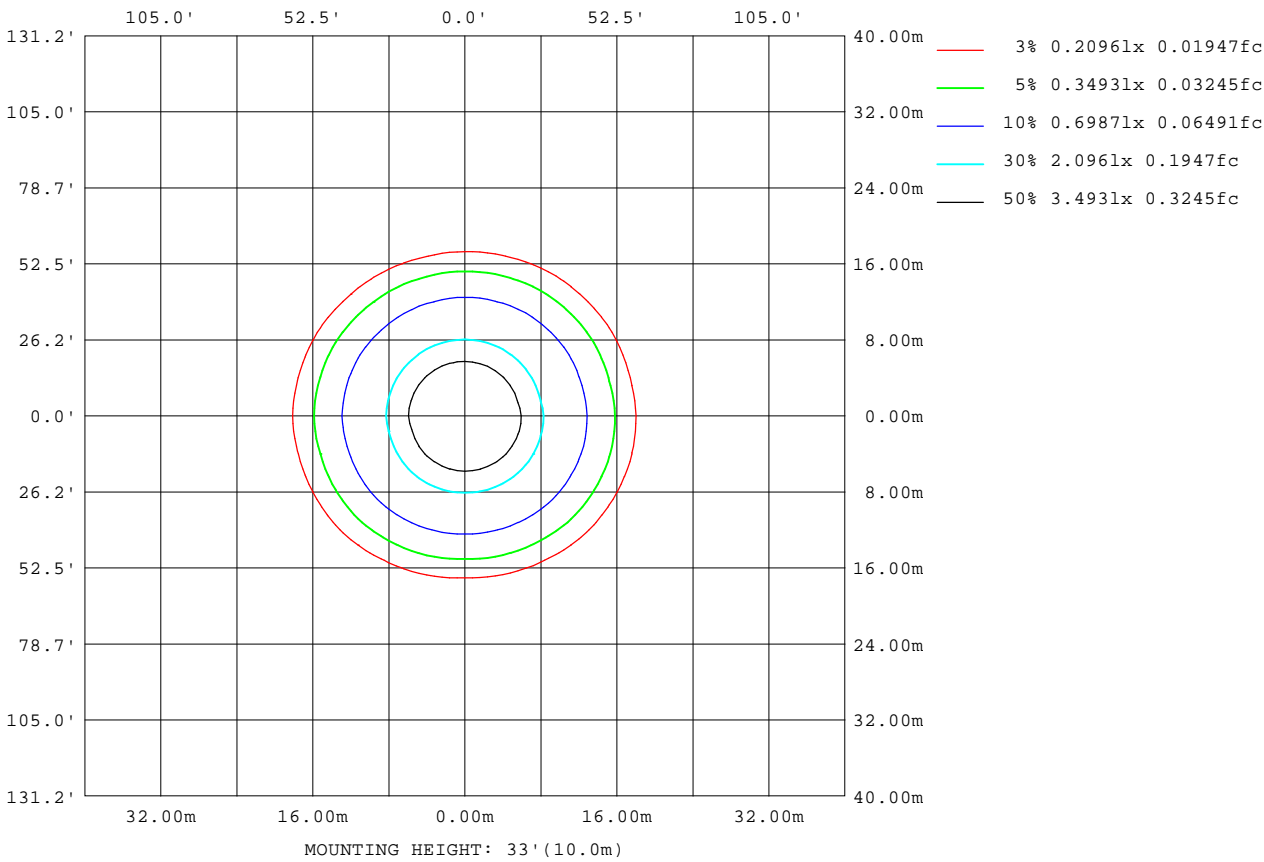
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date: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:120.05V I:0.2091A P:24.814W PF:0.9886 Freq:59.98Hz Lamp Flux:1497.79x1 lm		
NAME: LCFC-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:120.05V I:0.2091A P:24.814W PF:0.9886 Freq:59.98Hz Lamp Flux:1497.79x1 lm		
NAME: LCFC-MCT5	TYPE:0	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

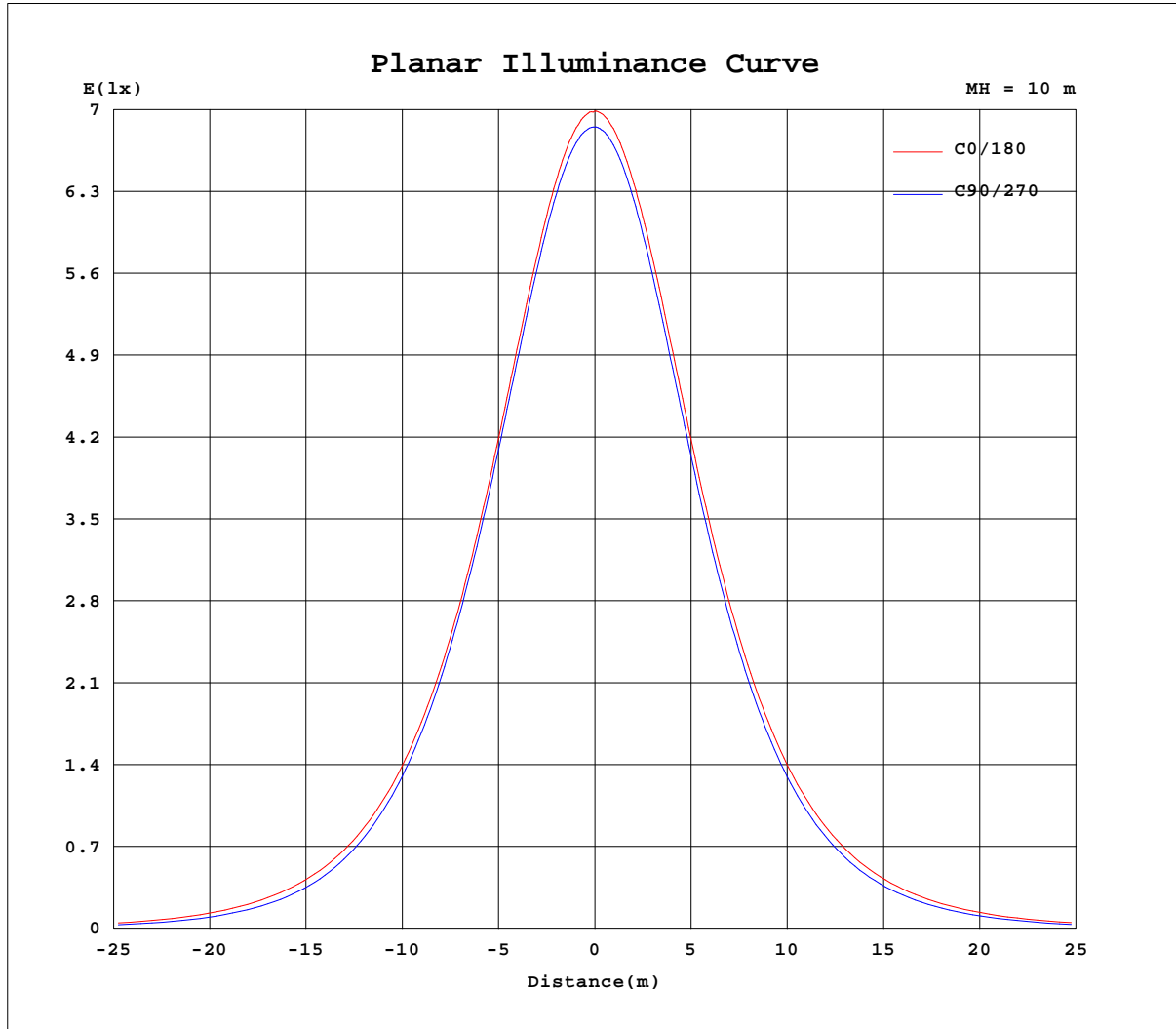
AvgL	cd/m2
L_0~180(65)av	612
L_0~180(75)av	230
L_0~180(85)av	118
L_90~270(65)av	465
L_90~270(75)av	175
L_90~270(85)av	134
L_45(65)av	557
L_45(75)av	203
L_45(85)av	129

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:120.05V I:0.2091A P:24.814W PF:0.9886 Freq:59.98Hz Lamp Flux:1497.79x1 lm		
NAME: LCFC-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	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687
5	683	683	683	684	683	684	683	683	683	683	682	683	682	682	681	681	681	682	682
10	671	672	672	673	672	672	672	672	671	672	670	671	670	669	668	668	668	668	668
15	651	653	653	654	653	652	651	652	651	652	650	651	650	648	647	646	647	647	647
20	624	625	625	626	624	625	623	623	623	625	622	623	622	620	619	617	617	616	617
25	588	591	589	590	588	588	586	587	587	589	587	588	587	584	583	581	580	578	579
30	546	548	547	548	544	545	542	544	544	547	545	546	545	542	541	537	536	534	535
35	498	500	498	499	494	495	492	494	495	499	497	498	498	494	492	488	487	483	485
40	445	447	445	444	438	437	434	437	440	446	445	446	446	441	439	434	431	428	429
45	388	390	386	384	376	373	369	374	379	387	387	389	389	384	381	374	371	366	368
50	325	327	322	319	309	304	300	306	313	323	325	328	328	322	318	310	305	300	302
55	259	261	256	251	239	232	226	234	243	256	259	263	263	258	253	243	237	232	234
60	192	194	188	183	169	162	156	164	173	188	192	197	197	191	187	176	170	164	166
65	127	129	124	117	106	98.9	93.0	101	109	122	127	131	132	127	122	113	107	101	103
70	69.9	71.3	67.2	62.1	56.2	50.4	47.3	53.2	56.9	64.9	69.4	73.5	73.9	69.6	66.4	59.5	56.6	52.6	51.9
75	29.0	28.9	28.0	26.1	24.8	22.8	21.2	23.1	24.8	25.8	27.4	30.1	30.6	28.8	28.8	26.3	25.5	24.0	24.1
80	11.3	11.3	10.9	11.1	10.7	11.1	10.7	10.8	10.3	10.9	10.8	11.2	11.7	11.6	12.3	12.4	12.9	12.7	12.6
85	5.05	5.18	4.96	5.05	4.85	5.31	5.12	5.10	4.55	4.92	4.88	5.04	5.27	5.71	6.18	6.25	6.50	6.51	6.55
90	0.23	0.78	1.12	1.03	0.55	0.56	0.49	0.57	0.50	1.28	1.01	0.64	0.45	1.21	1.86	1.21	0.67	0.67	0.53
95	0.21	0.21	0.20	0.19	0.20	0.21	0.21	0.20	0.19	0.20	0.21	0.20	0.22	0.22	0.20	0.23	0.26	0.29	0.27
100	0.36	0.35	0.34	0.31	0.30	0.27	0.29	0.29	0.31	0.33	0.35	0.35	0.37	0.38	0.36	0.34	0.33	0.39	0.38
105	0.57	0.54	0.53	0.49	0.47	0.45	0.47	0.47	0.50	0.53	0.55	0.53	0.56	0.61	0.58	0.54	0.51	0.52	0.52
110	0.77	0.74	0.72	0.69	0.67	0.65	0.66	0.66	0.68	0.71	0.72	0.71	0.76	0.78	0.76	0.73	0.69	0.69	0.67
115	0.96	0.92	0.91	0.88	0.85	0.85	0.84	0.83	0.85	0.88	0.88	0.88	0.95	0.94	0.93	0.91	0.88	0.87	0.86
120	1.13	1.09	1.08	1.05	1.02	1.02	1.01	0.99	1.02	1.02	1.01	1.02	1.11	1.09	1.09	1.08	1.05	1.04	1.05
125	1.26	1.22	1.21	1.19	1.17	1.17	1.16	1.12	1.14	1.14	1.11	1.15	1.23	1.21	1.22	1.22	1.19	1.18	1.20
130	1.36	1.33	1.32	1.30	1.28	1.25	1.22	1.21	1.23	1.21	1.19	1.24	1.33	1.32	1.32	1.32	1.30	1.27	1.30
135	1.46	1.41	1.40	1.37	1.37	1.35	1.30	1.27	1.26	1.25	1.25	1.33	1.44	1.42	1.41	1.40	1.36	1.36	1.40
140	1.53	1.51	1.46	1.45	1.43	1.38	1.32	1.28	1.29	1.26	1.29	1.38	1.51	1.52	1.47	1.43	1.40	1.36	1.43
145	1.59	1.52	1.48	1.48	1.44	1.41	1.36	1.29	1.30	1.24	1.26	1.40	1.59	1.55	1.51	1.45	1.39	1.39	1.47
150	1.56	1.55	1.51	1.46	1.42	1.45	1.38	1.32	1.29	1.23	1.24	1.37	1.55	1.55	1.51	1.47	1.38	1.42	1.50
155	1.51	1.56	1.54	1.46	1.45	1.41	1.33	1.33	1.29	1.23	1.22	1.29	1.51	1.53	1.50	1.44	1.41	1.40	1.48
160	1.45	1.54	1.50	1.43	1.41	1.36	1.32	1.30	1.31	1.22	1.16	1.16	1.46	1.49	1.48	1.36	1.39	1.43	1.50
165	1.36	1.43	1.43	1.46	1.40	1.34	1.33	1.33	1.37	1.29	1.10	1.04	1.33	1.34	1.32	1.37	1.37	1.41	1.43
170	1.41	1.43	1.47	1.43	1.39	1.39	1.41	1.42	1.42	1.36	1.16	1.05	1.36	1.32	1.28	1.28	1.37	1.44	1.44
175	1.41	1.43	1.45	1.44	1.42	1.42	1.42	1.46	1.49	1.41	1.22	1.11	1.34	1.30	1.28	1.33	1.38	1.36	1.37
180	1.47	1.44	1.43	1.45	1.43	1.43	1.42	1.43	1.47	1.51	1.39	1.25	1.47	1.44	1.43	1.45	1.43	1.44	1.42

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:120.05V I:0.2091A P:24.814W PF:0.9886 Freq:59.98Hz Lamp Flux:1497.79x1 lm		
NAME: LCFC-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	687	687	687	687	687														
5	681	682	682	682	683														
10	668	669	669	670	671														
15	646	648	648	650	651														
20	616	619	619	622	622														
25	578	582	583	586	587														
30	534	538	540	544	544														
35	484	489	491	495	497														
40	430	435	437	442	444														
45	368	375	379	384	386														
50	304	311	315	322	323														
55	236	245	249	257	258														
60	169	178	183	190	191														
65	107	114	119	125	127														
70	56.2	59.1	64.6	69.0	69.3														
75	24.4	25.8	27.2	29.3	29.2														
80	12.3	12.5	12.2	12.3	11.9														
85	6.41	6.46	6.26	6.25	5.79														
90	0.48	0.99	1.99	1.49	0.79														
95	0.33	0.23	0.21	0.25	0.24														
100	0.46	0.33	0.35	0.37	0.38														
105	0.50	0.51	0.56	0.60	0.61														
110	0.69	0.71	0.76	0.79	0.81														
115	0.88	0.91	0.95	0.98	0.99														
120	1.06	1.09	1.13	1.14	1.16														
125	1.20	1.24	1.27	1.26	1.28														
130	1.32	1.37	1.38	1.37	1.39														
135	1.41	1.43	1.46	1.47	1.48														
140	1.45	1.52	1.53	1.56	1.56														
145	1.48	1.55	1.57	1.58	1.61														
150	1.53	1.55	1.61	1.62	1.61														
155	1.58	1.56	1.58	1.64	1.61														
160	1.56	1.52	1.52	1.55	1.58														
165	1.46	1.48	1.43	1.44	1.45														
170	1.40	1.37	1.37	1.42	1.39														
175	1.35	1.34	1.39	1.40	1.30														
180	1.42	1.47	1.51	1.39	1.25														

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: