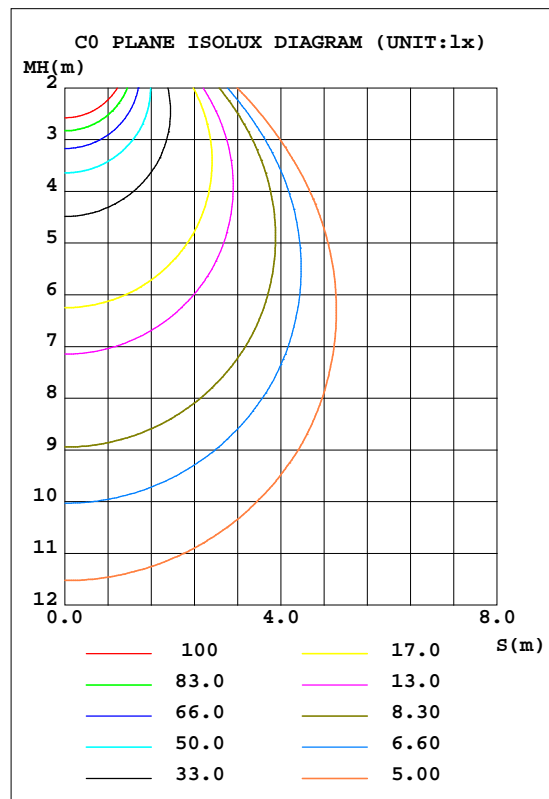
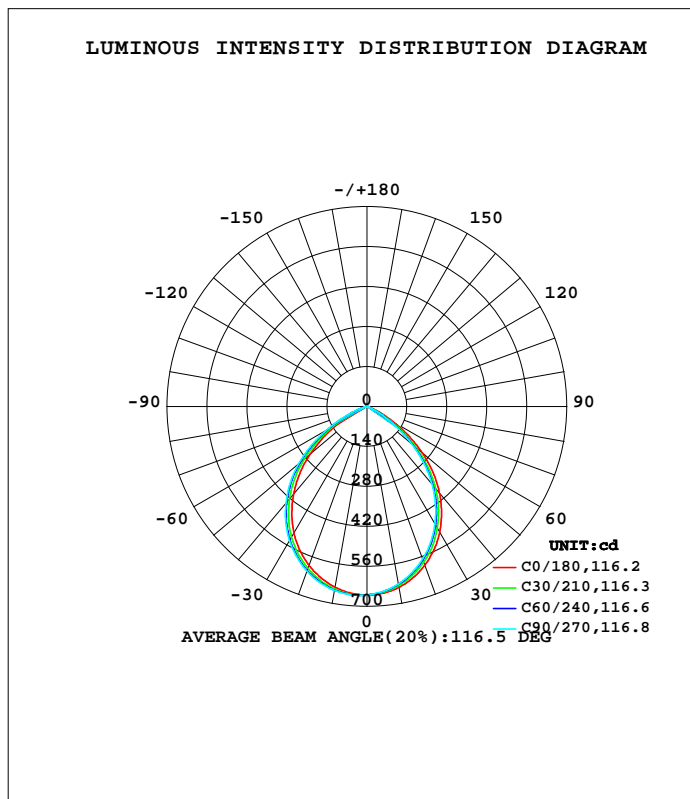


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.95V I:0.2141A P:24.606W PF:0.9583 Freq:59.98Hz Lamp Flux:1265.74x1 lm		
NAME: LCFA-MCT5	TYPE:	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 51.44 lm/W
MODEL	LCFA-MCT5	I <sub>max</sub> (cd)	662.4	S/MH(C0/180)	1.16	
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.23	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1265.7	h UP, DN(C0-180)	0.3,45.7	
NOMINAL FLUX(lm)	1265.74	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.2,53.8	
LAMPS INSIDE	1	h up(%)	0.5	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	h down(%)	99.5	CIBSE SHR MAX	1.25	



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 December 2020

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	642.8	635.1	631.3	635.5	643.2	650.7	654.0	650.6	0- 10	62.20	62.20	4.91,4.91
20	591.5	576.7	568.7	577.5	592.7	607.5	613.9	606.7	10- 20	175.0	237.2	18.7,18.7
30	509.4	487.1	476.5	489.3	511.6	533.8	542.8	531.5	20- 30	255.1	492.3	38.9,38.9
40	395.5	367.4	354.6	371.9	400.0	429.1	441.3	425.2	30- 40	285.3	777.6	61.4,61.4
50	253.2	219.9	206.0	225.5	259.5	296.5	313.2	291.4	40- 50	254.4	1032	81.5,81.5
60	104.7	77.96	68.38	81.04	108.0	141.4	160.2	138.8	50- 60	162.1	1194	94.3,94.3
70	14.42	7.310	5.594	8.183	16.93	31.30	40.01	28.89	60- 70	56.68	1251	98.8,98.8
80	2.167	1.544	1.281	1.649	2.365	2.928	2.911	2.596	70- 80	7.103	1258	99.4,99.4
90	0.0514	0.0660	0.0817	0.0672	0.0430	0.5395	0.6508	0.3756	80- 90	1.179	1259	99.5,99.5
100	0.2029	0.2655	0.3142	0.2641	0.1446	0.1051	0.0953	0.1142	90-100	0.1314	1259	99.5,99.5
110	0.5999	0.7305	0.8015	0.7239	0.4821	0.3922	0.3584	0.4076	100-110	0.3758	1260	99.5,99.5
120	1.175	1.310	1.340	1.280	0.9741	0.8478	0.7970	0.8680	110-120	0.8040	1260	99.6,99.6
130	1.748	1.877	1.802	1.799	1.465	1.342	1.252	1.393	120-130	1.194	1262	99.7,99.7
140	2.045	2.279	2.047	2.103	1.697	1.703	1.575	1.802	130-140	1.363	1263	99.8,99.8
150	2.215	2.394	2.215	2.114	1.822	1.856	1.771	1.973	140-150	1.250	1264	99.9,99.9
160	2.106	2.124	2.028	1.851	1.671	1.645	1.712	1.786	150-160	0.9171	1265	99.9,99.9
170	1.803	1.841	1.724	1.613	1.476	1.422	1.582	1.592	160-170	0.5012	1266	100,100
180	1.679	1.750	1.688	1.771	1.683	1.745	1.697	1.772	170-180	0.1527	1266	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:10 December 2020

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:0.2141A P:24.606W PF:0.9583 Freq:59.98Hz Lamp Flux:1265.74x1 lm										
NAME: LCFA-MCT5					TYPE:			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	10.0	11.3	10.2	11.5	11.7	9.0	10.3	9.3	10.5	10.7
3H	9.9	11.1	10.2	11.3	11.6	8.9	10.1	9.2	10.3	10.5
4H	9.8	10.9	10.1	11.2	11.4	8.8	9.9	9.1	10.2	10.4
6H	9.7	10.8	10.1	11.0	11.3	8.7	9.7	9.0	10.0	10.3
8H	9.7	10.7	10.0	11.0	11.3	8.6	9.6	9.0	9.9	10.2
12H	9.6	10.6	10.0	10.9	11.2	8.6	9.6	8.9	9.8	10.1
4H 2H	9.9	11.0	10.2	11.2	11.5	9.0	10.1	9.3	10.4	10.6
3H	9.8	10.8	10.2	11.1	11.4	8.9	9.8	9.2	10.1	10.4
4H	9.7	10.6	10.1	10.9	11.3	8.8	9.6	9.1	10.0	10.3
6H	9.7	10.4	10.1	10.8	11.1	8.7	9.4	9.1	9.8	10.2
8H	9.6	10.3	10.0	10.7	11.1	8.6	9.3	9.1	9.7	10.1
12H	9.6	10.2	10.0	10.6	11.0	8.6	9.2	9.0	9.6	10.0
8H 4H	9.6	10.3	10.0	10.7	11.1	8.6	9.3	9.1	9.7	10.1
6H	9.5	10.1	10.0	10.5	10.9	8.6	9.1	9.0	9.5	10.0
8H	9.5	10.0	9.9	10.4	10.9	8.5	9.0	9.0	9.4	9.9
12H	9.4	9.9	9.9	10.3	10.8	8.5	8.9	9.0	9.3	9.8
12H 4H	9.6	10.2	10.0	10.6	11.0	8.6	9.2	9.0	9.6	10.0
6H	9.5	10.0	9.9	10.4	10.9	8.5	9.0	9.0	9.4	9.9
8H	9.4	9.9	9.9	10.3	10.8	8.5	8.9	9.0	9.3	9.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.1 / - 1.5					+ 1.5 / - 2.4				
1.5H	+ 0.7 / - 1.1					+ 0.7 / - 1.1				
2.0H	+ 2.6 / - 5.0					+ 2.9 / - 5.5				

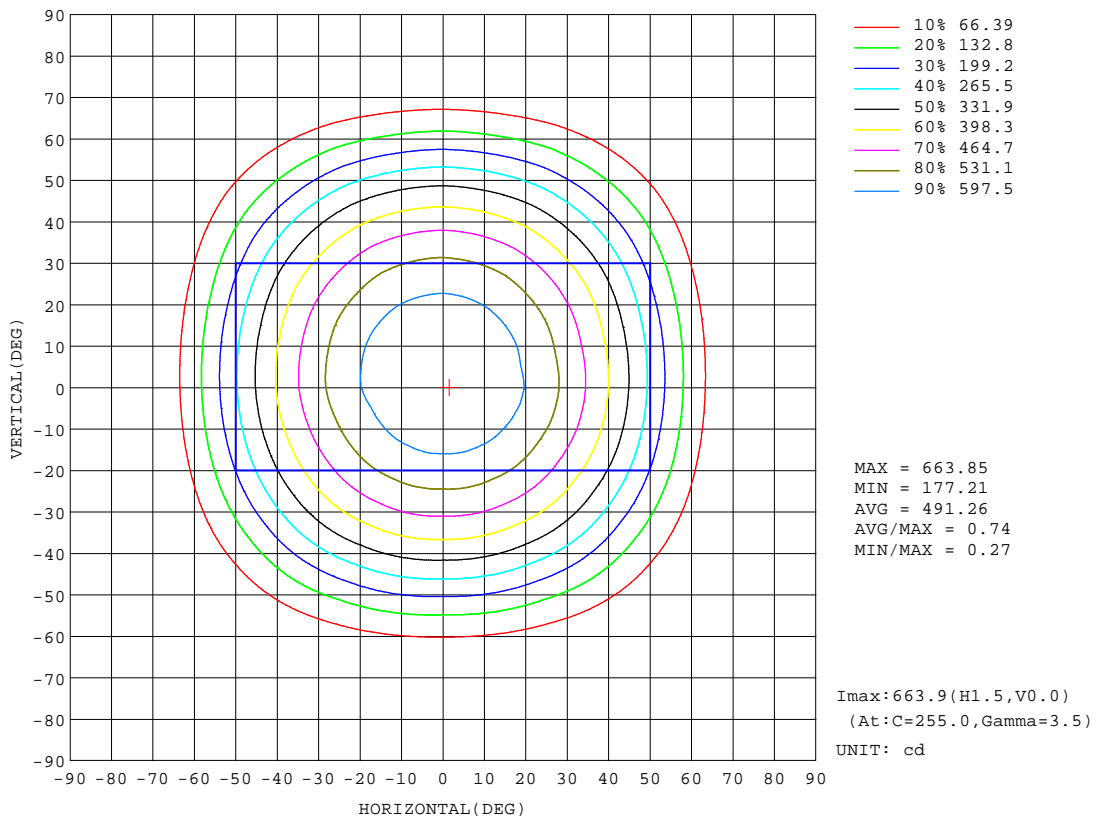
CIE Pub.117, 1266 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.8)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 December 2020

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:0.2141A P:24.606W PF:0.9583 Freq:59.98Hz Lamp Flux:1265.74x1 lm		
NAME: LCFA-MCT5	TYPE:	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



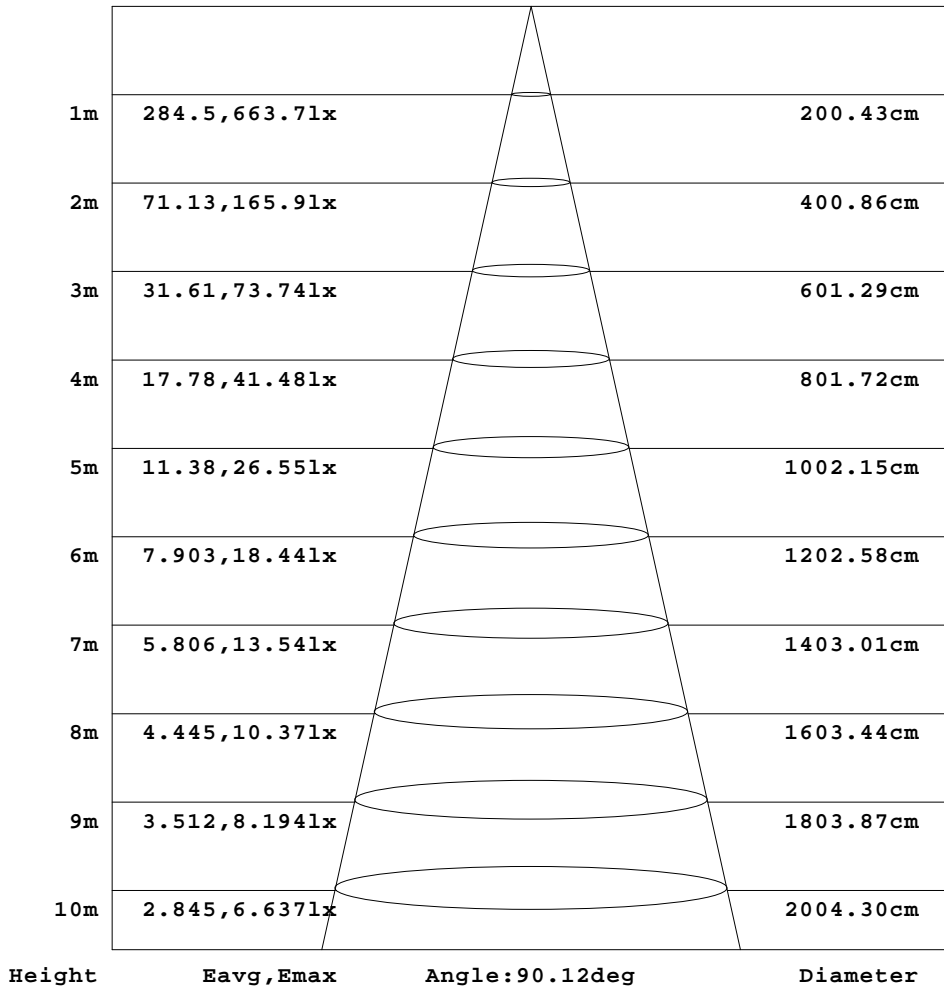
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 December 2020

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:0.2141A P:24.606W PF:0.9583 Freq:59.98Hz Lamp Flux:1265.74x1 lm		
NAME: LCFA-MCT5	TYPE:	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:925.6 lm



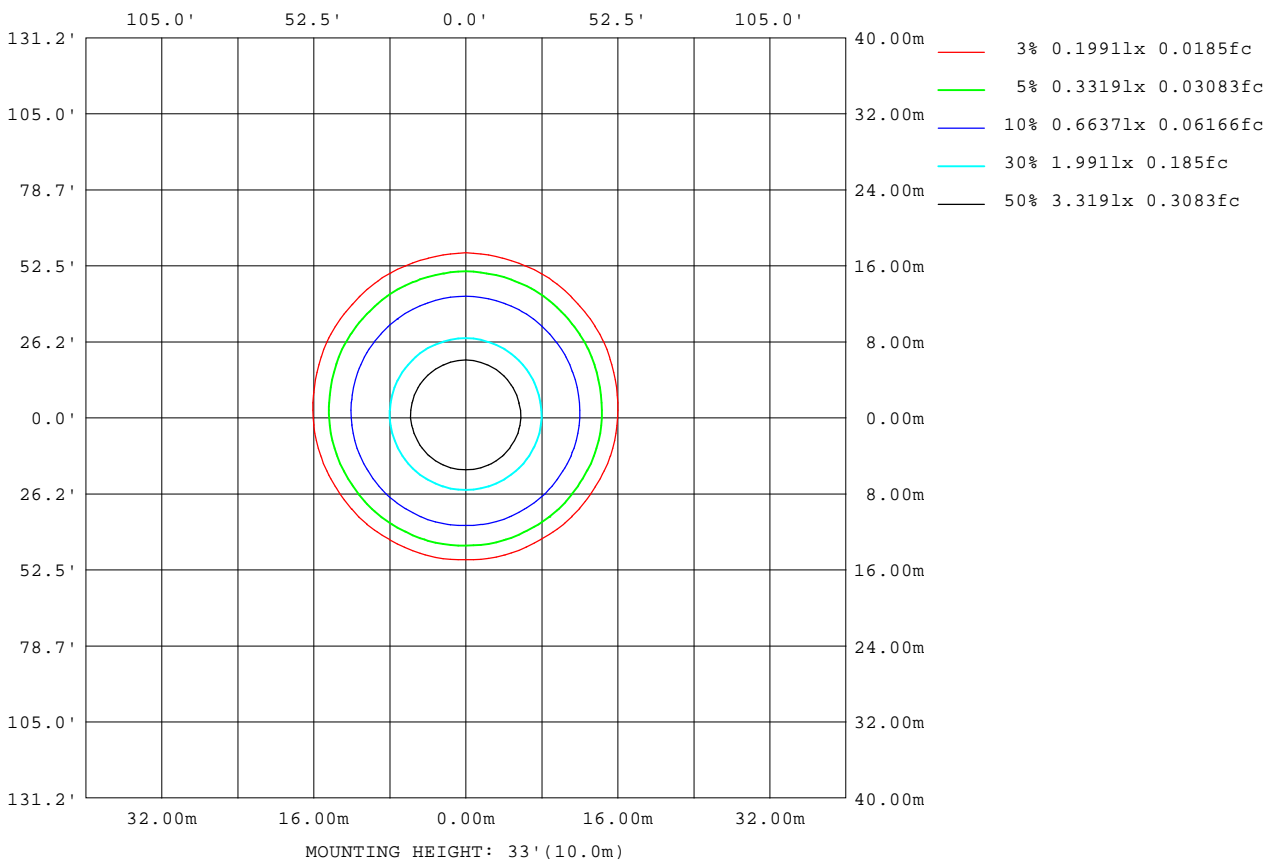
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 December 2020

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:0.2141A P:24.606W PF:0.9583 Freq:59.98Hz Lamp Flux:1265.74x1 lm		
NAME: LCFA-MCT5	TYPE:	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:10 December 2020

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:0.2141A P:24.606W PF:0.9583 Freq:59.98Hz Lamp Flux:1265.74x1 lm		
NAME: LCFA-MCT5	TYPE:	WEIGHT:
SPEC.:25W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

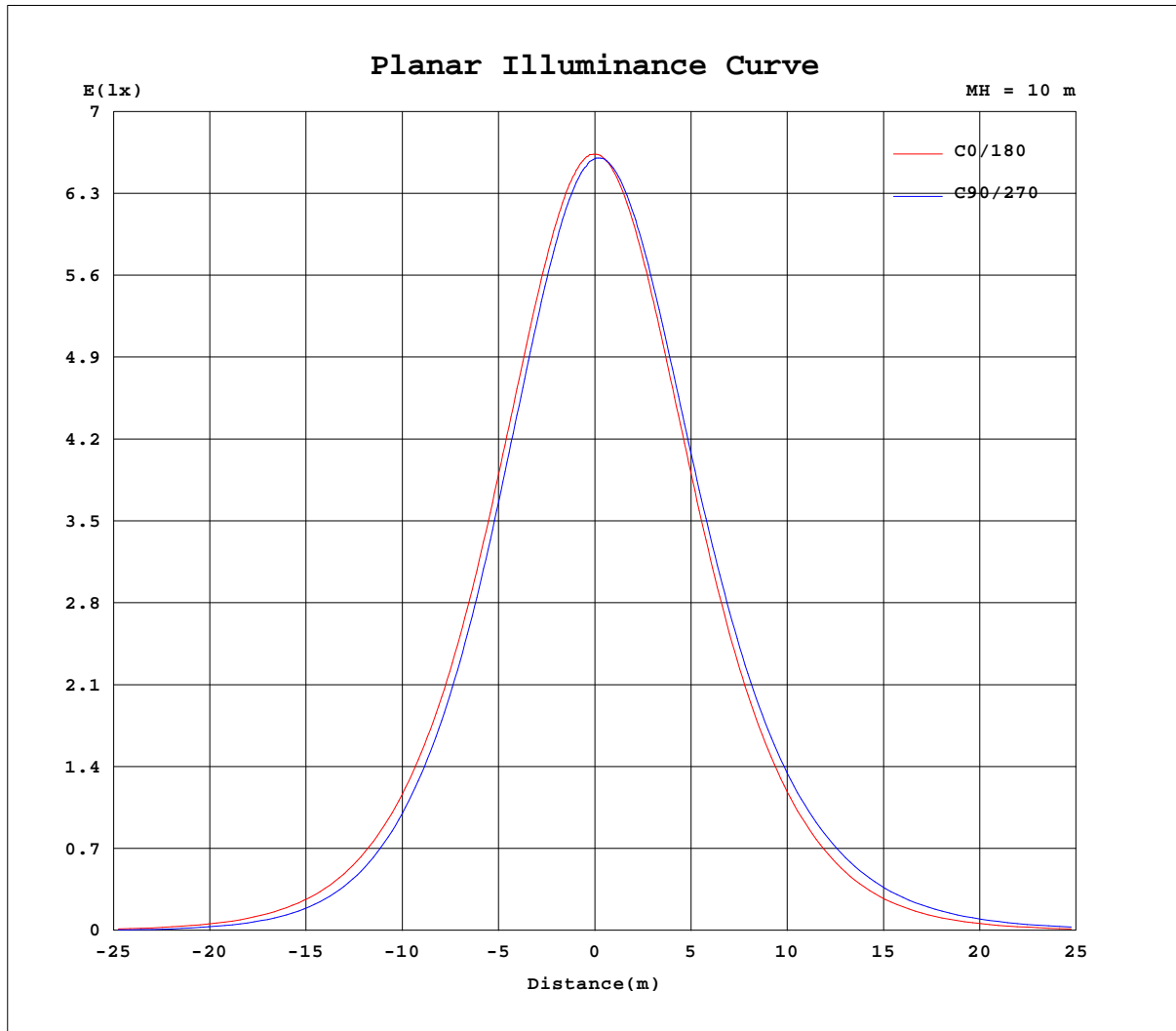
AvgL	cd/m2
L_0~180(65)av	241
L_0~180(75)av	28
L_0~180(85)av	23
L_90~270(65)av	276
L_90~270(75)av	48
L_90~270(85)av	23
L_45(65)av	254
L_45(75)av	38
L_45(85)av	25

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 December 2020

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: 10 December 2020

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:0.2141A P:24.606W PF:0.9583 Freq:59.98Hz Lamp Flux:1265.74x1 lm		
NAME: LCFA-MCT5	TYPE:	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	660	660	660	660	660	660	660	660	660	660	660	660	660	660	660	660	660	660	660
5	656	654	653	652	650	650	650	650	650	652	653	655	656	657	659	660	661	661	661
10	643	640	637	635	632	633	631	632	633	635	637	640	643	646	649	651	653	654	654
15	621	618	613	610	606	605	604	605	607	610	613	618	622	625	630	633	637	637	638
20	592	587	580	577	572	571	569	571	572	577	581	587	593	597	604	608	612	613	614
25	555	549	541	536	530	529	527	529	532	537	543	549	556	562	570	574	579	581	582
30	509	502	493	487	480	479	476	480	482	489	495	504	512	519	529	534	540	542	543
35	456	448	437	431	423	421	419	423	426	434	440	450	459	468	479	485	492	495	496
40	396	386	375	367	359	357	355	359	362	372	379	390	400	410	422	429	437	440	441
45	328	318	305	297	288	286	283	288	292	302	310	323	334	345	358	367	376	379	381
50	253	242	227	220	211	209	206	211	215	226	234	248	259	271	287	296	307	310	313
55	175	165	150	144	135	134	131	136	139	149	155	169	181	192	209	218	230	234	238
60	105	95.8	83.3	78.0	71.1	69.8	68.4	71.1	73.4	81.0	86.5	98.2	108	118	133	141	153	156	160
65	50.0	43.4	35.8	31.8	27.6	26.6	25.3	27.2	29.0	33.8	38.1	45.3	51.9	59.2	69.3	75.7	85.0	87.5	91.3
70	14.4	11.6	8.59	7.31	6.28	5.64	5.59	5.92	6.97	8.18	9.83	13.0	16.9	20.5	26.8	31.3	36.5	38.3	40.0
75	3.40	3.11	2.84	2.66	2.48	2.41	2.36	2.43	2.53	2.76	3.00	3.35	3.85	4.72	6.18	7.49	8.84	9.32	10.0
80	2.17	1.97	1.72	1.54	1.38	1.32	1.28	1.36	1.45	1.65	1.86	2.14	2.36	2.60	2.83	2.93	2.99	2.95	2.91
85	0.92	0.75	0.59	0.49	0.29	0.23	0.18	0.28	0.40	0.55	0.66	0.86	1.09	1.33	1.60	1.75	1.86	1.85	1.83
90	0.05	0.05	0.06	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.06	0.05	0.04	0.05	0.34	0.54	0.64	0.65	0.65
95	0.10	0.11	0.12	0.14	0.15	0.16	0.16	0.16	0.15	0.14	0.12	0.11	0.07	0.06	0.06	0.05	0.04	0.05	0.05
100	0.20	0.22	0.25	0.27	0.30	0.31	0.31	0.30	0.29	0.26	0.24	0.21	0.14	0.14	0.11	0.11	0.10	0.09	0.10
105	0.37	0.40	0.45	0.48	0.50	0.52	0.53	0.53	0.50	0.47	0.44	0.39	0.29	0.26	0.23	0.22	0.20	0.19	0.19
110	0.60	0.64	0.69	0.73	0.77	0.79	0.80	0.79	0.77	0.72	0.69	0.63	0.48	0.45	0.41	0.39	0.37	0.36	0.36
115	0.88	0.92	0.97	1.01	1.05	1.06	1.07	1.06	1.05	1.00	0.97	0.90	0.71	0.68	0.64	0.61	0.58	0.57	0.56
120	1.18	1.22	1.28	1.31	1.34	1.34	1.34	1.33	1.32	1.28	1.26	1.18	0.97	0.93	0.88	0.85	0.81	0.80	0.80
125	1.48	1.51	1.59	1.60	1.61	1.61	1.59	1.59	1.58	1.55	1.54	1.46	1.24	1.18	1.14	1.11	1.06	1.02	1.02
130	1.75	1.76	1.88	1.88	1.87	1.83	1.80	1.81	1.82	1.80	1.78	1.69	1.47	1.40	1.39	1.34	1.28	1.25	1.25
135	1.93	1.95	2.10	2.10	2.06	2.02	1.98	1.98	1.99	1.99	1.96	1.88	1.61	1.58	1.61	1.55	1.47	1.43	1.44
140	2.04	2.07	2.26	2.28	2.22	2.12	2.05	2.08	2.10	2.10	2.05	1.98	1.70	1.71	1.78	1.70	1.65	1.59	1.58
145	2.15	2.18	2.33	2.37	2.33	2.26	2.17	2.15	2.18	2.15	2.10	2.03	1.78	1.79	1.86	1.79	1.74	1.70	1.69
150	2.22	2.22	2.35	2.39	2.33	2.31	2.21	2.14	2.16	2.11	2.04	2.03	1.82	1.77	1.85	1.86	1.76	1.74	1.77
155	2.23	2.21	2.25	2.34	2.27	2.23	2.15	2.08	2.07	2.02	1.90	1.94	1.79	1.73	1.81	1.82	1.74	1.73	1.76
160	2.11	2.19	2.17	2.12	2.18	2.15	2.03	2.03	1.96	1.85	1.79	1.82	1.67	1.72	1.71	1.65	1.68	1.71	1.71
165	1.91	2.01	2.00	1.98	2.00	1.98	1.88	1.89	1.82	1.69	1.62	1.61	1.51	1.54	1.51	1.54	1.61	1.65	1.63
170	1.80	1.86	1.90	1.84	1.80	1.74	1.72	1.70	1.65	1.61	1.51	1.47	1.48	1.45	1.43	1.42	1.47	1.54	1.58
175	1.67	1.73	1.78	1.73	1.69	1.67	1.65	1.67	1.71	1.64	1.48	1.39	1.44	1.44	1.43	1.49	1.52	1.49	1.47
180	1.68	1.68	1.71	1.75	1.69	1.69	1.69	1.67	1.72	1.77	1.66	1.56	1.68	1.68	1.71	1.74	1.70	1.69	1.70

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 December 2020

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:0.2141A P:24.606W PF:0.9583 Freq:59.98Hz Lamp Flux:1265.74x1 lm		
NAME: LCFA-MCT5	TYPE:	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	660	660	660	660	660														
5	661	660	660	659	657														
10	654	653	651	649	645														
15	637	636	632	630	625														
20	612	611	607	603	597														
25	580	578	573	569	560														
30	540	538	531	526	516														
35	493	490	482	475	464														
40	438	434	425	417	405														
45	377	372	362	353	339														
50	309	303	291	281	265														
55	233	227	214	203	187														
60	155	151	139	130	115														
65	86.3	82.8	73.5	66.8	57.4														
70	37.4	34.8	28.9	24.7	18.1														
75	8.87	8.03	6.60	5.12	3.92														
80	2.82	2.74	2.60	2.48	2.29														
85	1.73	1.65	1.50	1.34	1.11														
90	0.61	0.56	0.38	0.15	0.04														
95	0.05	0.05	0.05	0.06	0.06														
100	0.09	0.10	0.11	0.12	0.14														
105	0.20	0.21	0.22	0.24	0.27														
110	0.37	0.38	0.41	0.43	0.47														
115	0.58	0.60	0.63	0.65	0.69														
120	0.81	0.84	0.87	0.91	0.96														
125	1.06	1.08	1.13	1.18	1.22														
130	1.29	1.33	1.39	1.44	1.46														
135	1.48	1.55	1.63	1.67	1.65														
140	1.64	1.74	1.80	1.85	1.77														
145	1.77	1.84	1.92	1.95	1.86														
150	1.83	1.90	1.97	1.97	1.92														
155	1.84	1.89	1.94	1.95	1.94														
160	1.82	1.81	1.79	1.87	1.91														
165	1.72	1.70	1.67	1.71	1.75														
170	1.60	1.58	1.59	1.63	1.62														
175	1.50	1.52	1.59	1.58	1.54														
180	1.68	1.72	1.77	1.66	1.56														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 December 2020

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: