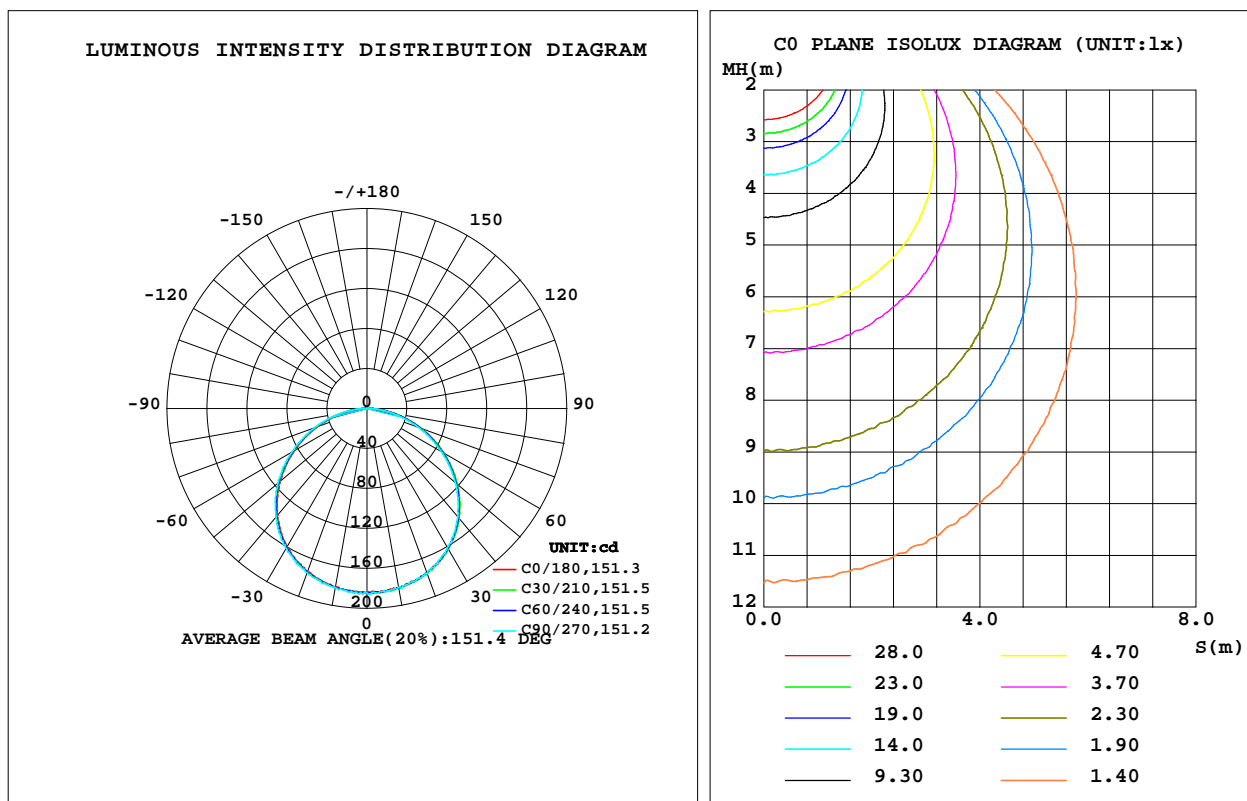


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.97V I:0.0897A P:10.417W PF:0.9685 Freq:59.98Hz Lamp Flux:558.029x1 lm		
NAME: 57721	TYPE:0	WEIGHT:
SPEC.:10W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 53.57 lm/W			
MODEL	57721	I _{max} (cd)	185.7	S/MH(C0/180)	1.29
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	558.03	h UP,DN(C0-180)	0.3,49.8
NOMINAL FLUX(lm)	558.029	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.3,49.7
LAMPS INSIDE	1	h up(%)	0.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	99.4	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:15 July 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	181.9	182.9	181.9	181.5	180.9	181.7	182.2	182.2	0- 10	17.48	17.48	3.13,3.13
20	175.2	175.8	176.0	174.0	173.5	174.5	174.6	174.7	10- 20	50.54	68.02	12.2,12.2
30	161.9	162.7	161.0	160.1	160.0	161.3	161.9	161.9	20- 30	77.78	145.8	26.1,26.1
40	142.7	143.4	141.6	139.9	139.3	140.3	141.5	142.6	30- 40	95.14	240.9	43.2,43.2
50	117.9	117.7	115.3	114.3	113.7	114.2	116.8	117.2	40- 50	99.61	340.5	61,61
60	88.13	88.56	86.06	84.18	83.74	84.73	86.78	87.79	50- 60	90.53	431.1	77.2,77.2
70	57.02	57.34	54.05	52.92	52.23	53.29	55.08	56.61	60- 70	69.76	500.8	89.8,89.8
80	26.49	26.57	23.61	22.59	21.89	23.01	24.47	25.94	70- 80	41.33	542.2	97.2,97.2
90	2.921	1.680	1.208	0.5744	0.3118	0.4644	1.556	2.679	80- 90	12.70	554.9	99.4,99.4
100	0.2799	0.2738	0.2904	0.2934	0.2481	0.2384	0.2214	0.2198	90-100	0.2860	555.1	99.5,99.5
110	0.4776	0.4438	0.4622	0.4595	0.4413	0.4075	0.3919	0.4368	100-110	0.3676	555.5	99.5,99.5
120	0.6692	0.6041	0.6062	0.6090	0.5895	0.5467	0.5262	0.5706	110-120	0.5097	556.0	99.6,99.6
130	0.7678	0.7231	0.7018	0.7175	0.6659	0.6272	0.6223	0.6376	120-130	0.5719	556.6	99.7,99.7
140	0.7706	0.7559	0.7537	0.7450	0.6677	0.6500	0.6698	0.6628	130-140	0.5375	557.1	99.8,99.8
150	0.7074	0.7348	0.7234	0.7020	0.5993	0.5805	0.6551	0.6171	140-150	0.4305	557.6	99.9,99.9
160	0.5837	0.5920	0.6782	0.5494	0.4722	0.4409	0.5579	0.4781	150-160	0.2810	557.8	100,100
170	0.5057	0.5303	0.5210	0.4761	0.4317	0.4053	0.4616	0.4590	160-170	0.1418	558.0	100,100
180	0.4863	0.5208	0.4920	0.5201	0.4922	0.5236	0.4954	0.5157	170-180	0.0453	558.0	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:15 July 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:119.97V I:0.0897A P:10.417W PF:0.9685 Freq:59.98Hz Lamp Flux:558.029x1 lm											
NAME: 57721					TYPE:0			WEIGHT:			
SPEC.:10W					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	9.5	11.0	9.7	11.2	11.4	9.3	10.8	9.6	11.0	11.2	
	3H	11.1	12.5	11.4	12.7	13.0	10.8	12.3	11.1	12.5	12.7
	4H	11.8	13.1	12.1	13.4	13.6	11.5	12.8	11.8	13.1	13.3
	6H	12.3	13.6	12.6	13.8	14.1	11.9	13.2	12.3	13.5	13.8
	8H	12.5	13.7	12.8	14.0	14.3	12.1	13.3	12.4	13.6	13.9
	12H	12.6	13.8	13.0	14.1	14.4	12.2	13.4	12.6	13.7	14.0
4H	2H	10.1	11.4	10.4	11.7	12.0	9.9	11.3	10.3	11.5	11.8
	3H	11.9	13.1	12.2	13.4	13.7	11.7	12.9	12.0	13.2	13.5
	4H	12.7	13.8	13.1	14.1	14.5	12.4	13.5	12.8	13.9	14.2
	6H	13.4	14.3	13.8	14.7	15.1	13.1	14.0	13.5	14.4	14.8
	8H	13.6	14.5	14.1	14.9	15.3	13.3	14.2	13.7	14.5	14.9
	12H	13.8	14.6	14.2	15.0	15.4	13.4	14.3	13.9	14.6	15.1
8H	4H	13.0	13.9	13.4	14.3	14.7	12.8	13.7	13.2	14.0	14.4
	6H	13.8	14.6	14.3	15.0	15.4	13.5	14.3	14.0	14.7	15.1
	8H	14.2	14.9	14.7	15.3	15.8	13.9	14.5	14.3	15.0	15.4
	12H	14.4	15.0	14.9	15.5	16.0	14.1	14.7	14.6	15.1	15.6
12H	4H	13.0	13.8	13.4	14.2	14.6	12.8	13.6	13.2	14.0	14.4
	6H	13.9	14.6	14.4	15.0	15.5	13.6	14.3	14.1	14.7	15.2
	8H	14.3	14.9	14.8	15.3	15.8	14.0	14.6	14.5	15.0	15.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3					

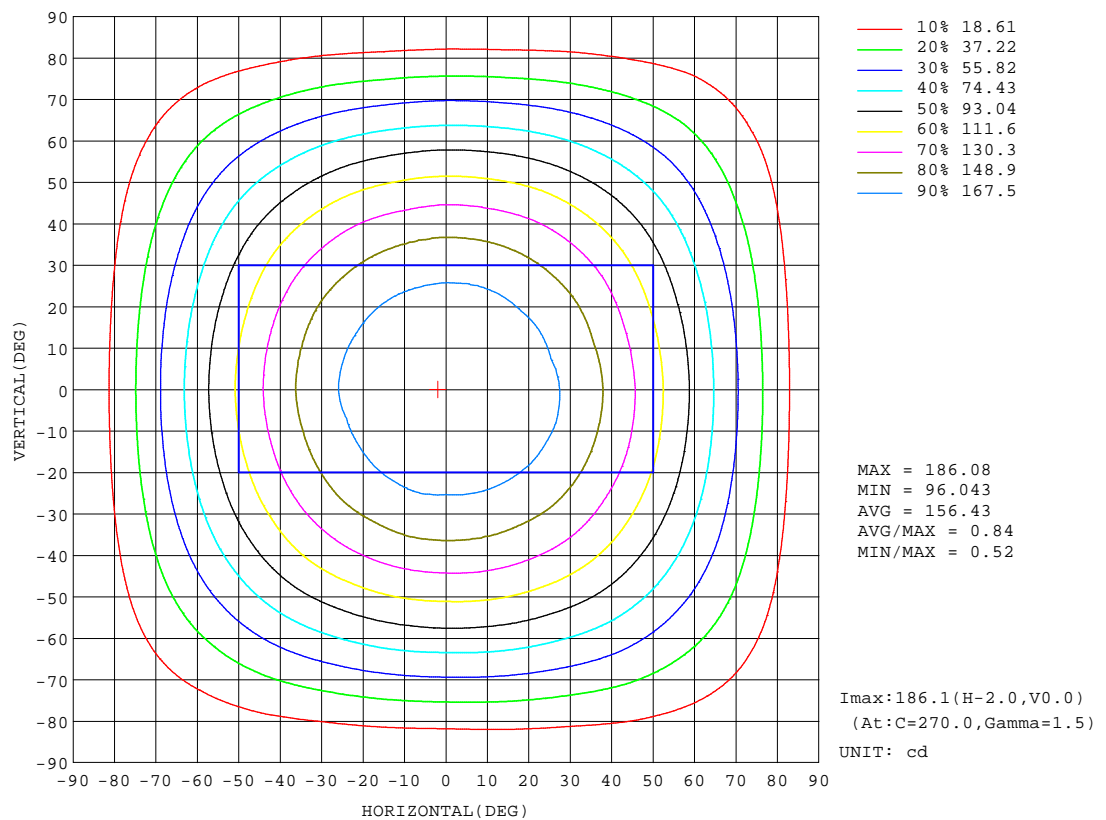
CIE Pub.117, 558.0 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -2.0$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:15 July 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:119.97V I:0.0897A P:10.417W PF:0.9685 Freq:59.98Hz Lamp Flux:558.029x1 lm		
NAME: 57721	TYPE:0	WEIGHT:
SPEC.:10W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



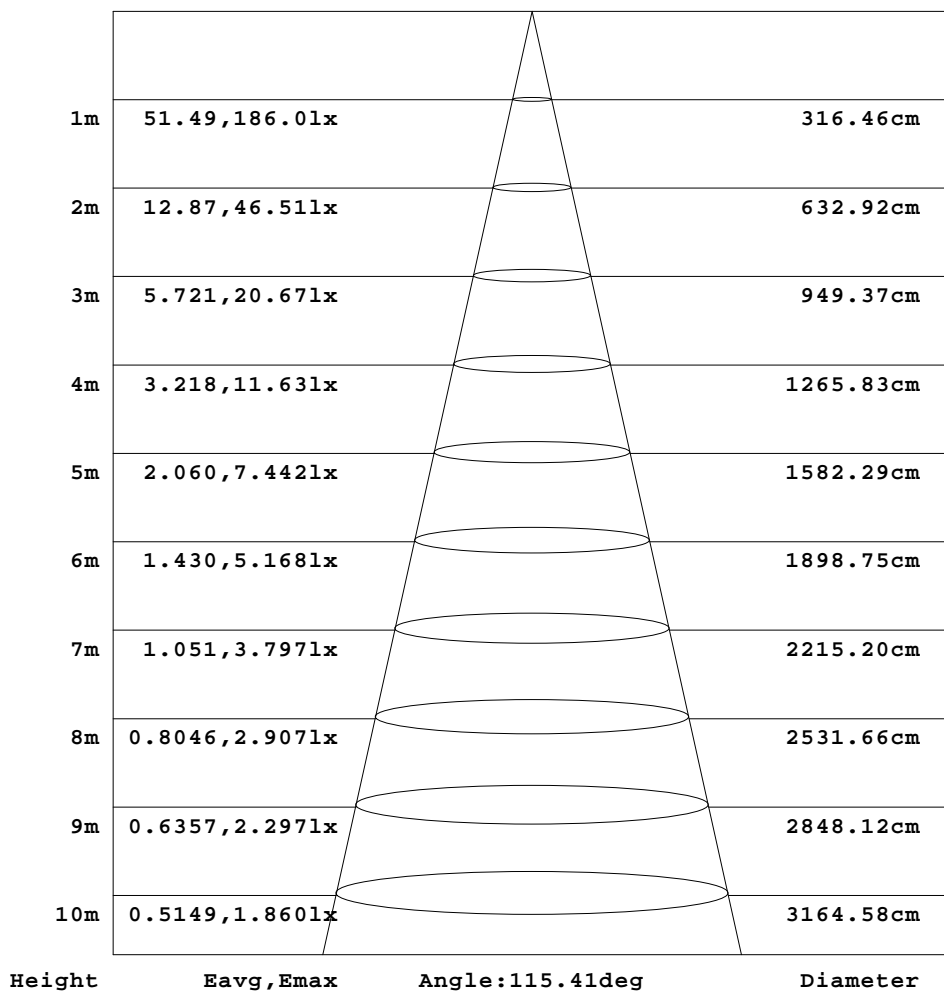
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:15 July 2020

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:119.97V I:0.0897A P:10.417W PF:0.9685 Freq:59.98Hz Lamp Flux:558.029x1 lm		
NAME: 57721	TYPE:0	WEIGHT:
SPEC.:10W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:414.3 lm



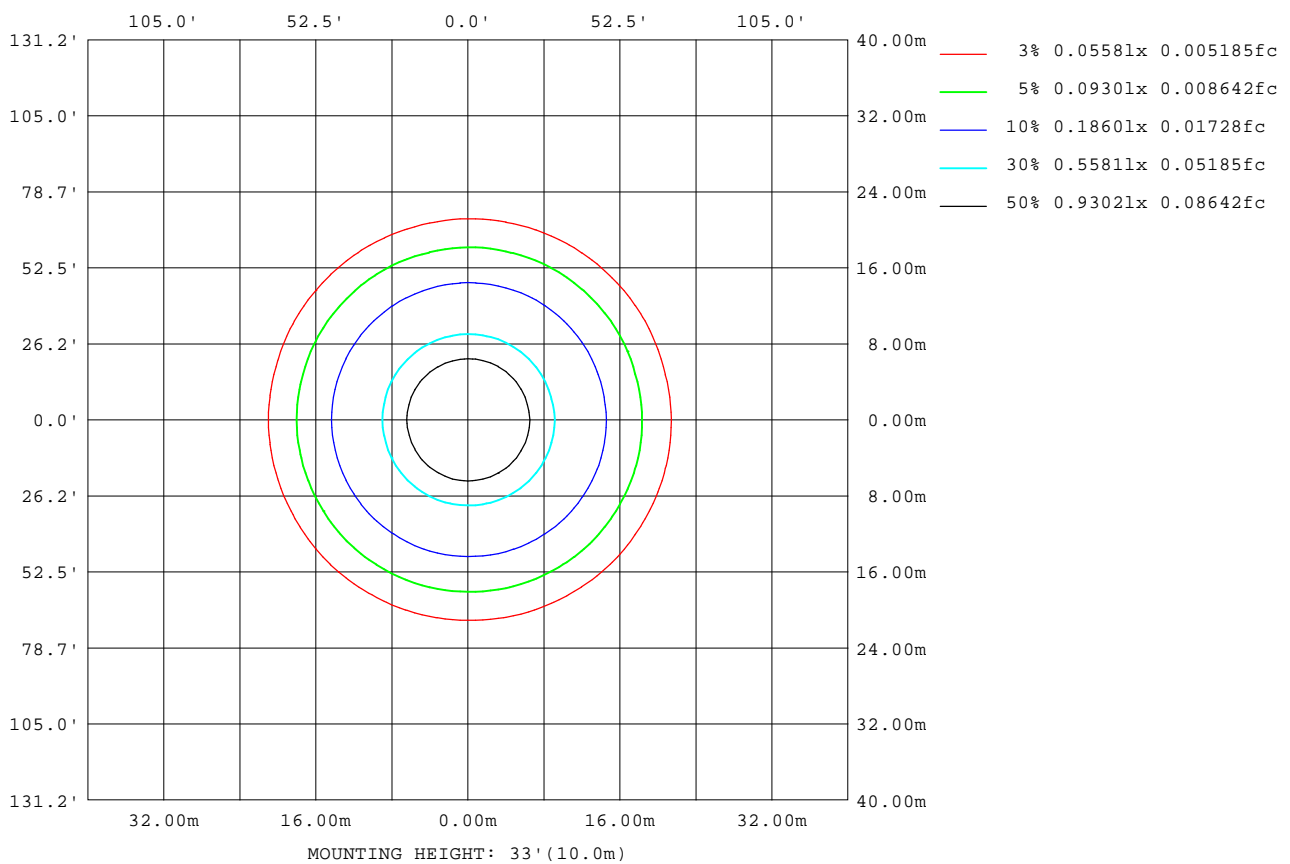
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:15 July 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:119.97V I:0.0897A P:10.417W PF:0.9685 Freq:59.98Hz Lamp Flux:558.029x1 lm		
NAME: 57721	TYPE:0	WEIGHT:
SPEC.:10W	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:15 July 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:119.97V I:0.0897A P:10.417W PF:0.9685 Freq:59.98Hz Lamp Flux:558.029x1 lm		
NAME: 57721	TYPE:0	WEIGHT:
SPEC.:10W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

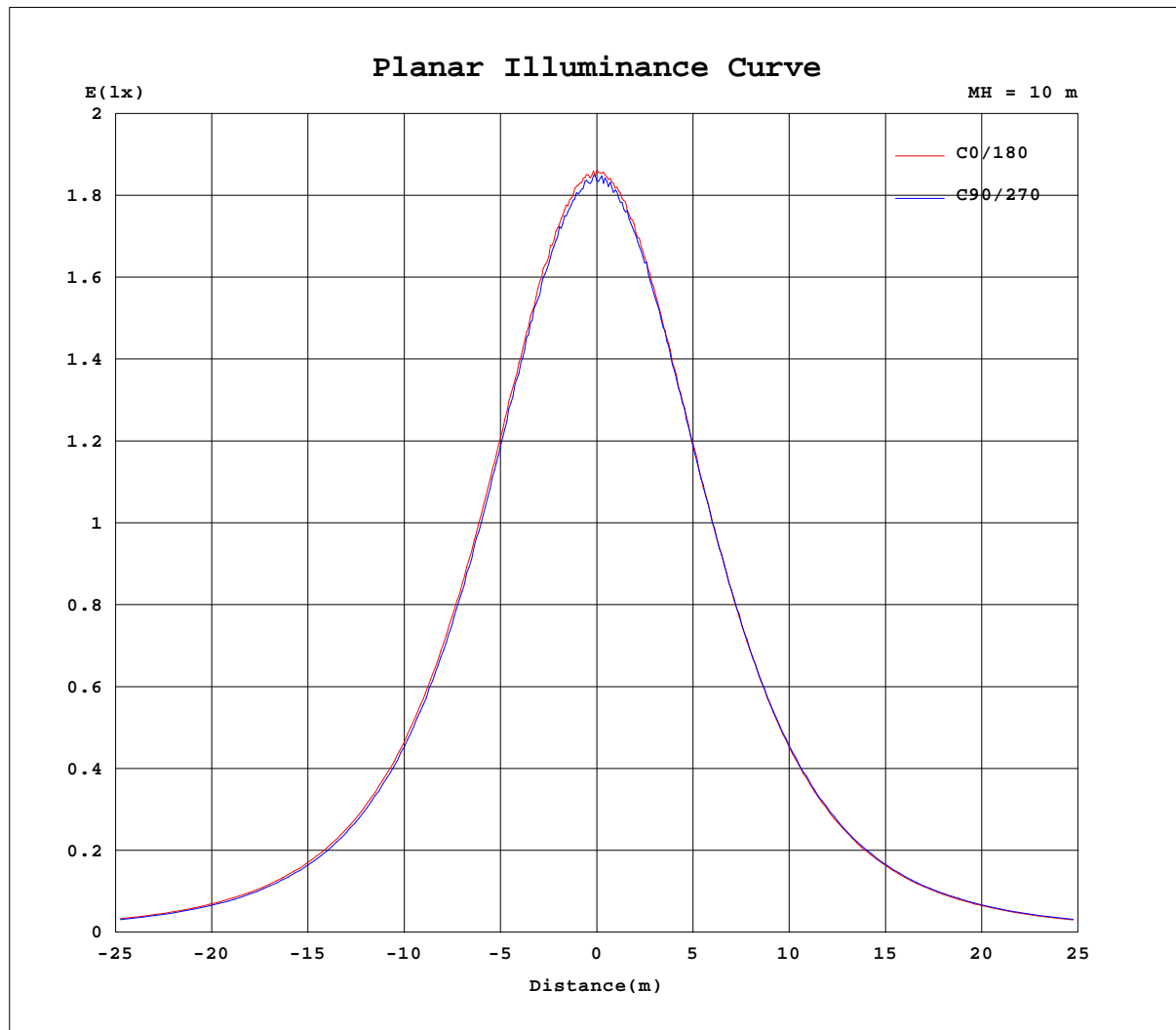
AvgL	cd/m2
L_0~180(65)av	333
L_0~180(75)av	302
L_0~180(85)av	246
L_90~270(65)av	334
L_90~270(75)av	301
L_90~270(85)av	256
L_45(65)av	335
L_45(75)av	304
L_45(85)av	265

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:15 July 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: 15 July 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:119.97V I:0.0897A P:10.417W PF:0.9685 Freq:59.98Hz Lamp Flux:558.029x1 lm		
NAME: 57721	TYPE:0	WEIGHT:
SPEC.:10W	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	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184	184
5	183	184	184	184	184	184	184	183	183	183	184	183	183	183	184	184	183	183	184
10	182	182	183	183	182	182	182	181	181	182	181	181	181	182	182	182	182	182	182
15	179	179	180	180	179	179	179	178	178	178	178	178	178	179	179	179	179	179	179
20	175	176	175	176	175	176	176	174	174	174	174	173	174	173	175	174	174	174	175
25	169	170	169	170	169	169	169	168	168	167	168	167	168	168	168	168	168	168	169
30	162	163	163	163	162	163	161	160	160	160	160	160	160	160	160	161	161	161	162
35	153	154	154	154	153	152	152	152	151	151	151	150	151	151	151	151	151	152	153
40	143	143	143	143	142	142	142	141	140	140	140	139	139	139	140	140	141	141	141
45	131	131	131	131	130	129	129	129	128	128	128	127	127	127	128	128	129	129	129
50	118	118	118	118	117	116	115	115	114	114	114	113	114	114	114	114	115	115	117
55	103	104	103	104	102	102	101	101	99.5	99.4	99.3	99.0	98.9	99.2	100	100	101	101	102
60	88.1	88.5	88.5	88.6	87.2	86.6	86.1	85.1	84.3	84.2	83.8	83.9	83.7	83.5	84.3	84.7	85.3	85.2	86.8
65	72.7	73.3	72.7	72.9	71.6	71.0	70.2	69.8	68.7	68.7	68.3	68.0	68.0	67.8	68.8	69.1	69.7	69.7	70.8
70	57.0	57.4	57.2	57.3	55.9	55.0	54.1	53.7	52.8	52.9	52.2	52.2	52.2	51.9	52.9	53.3	54.0	53.8	55.1
75	41.6	42.0	41.4	41.6	40.2	39.6	38.4	38.1	37.3	37.2	36.6	36.6	36.5	36.3	37.3	37.6	38.3	38.2	39.5
80	26.5	26.8	26.5	26.6	25.4	24.8	23.6	23.5	22.6	22.6	22.0	22.1	21.9	21.9	22.6	23.0	23.6	23.5	24.5
85	12.4	10.7	12.5	13.3	12.2	11.8	10.9	10.6	9.87	10.0	9.23	8.01	9.06	9.26	9.96	10.1	10.7	10.6	11.4
90	2.92	2.20	2.19	1.68	1.28	1.32	1.21	1.04	0.61	0.57	0.40	0.35	0.31	0.27	0.42	0.46	0.84	0.99	1.56
95	0.20	0.21	0.20	0.20	0.21	0.20	0.21	0.21	0.21	0.21	0.22	0.23	0.15	0.15	0.15	0.15	0.15	0.15	0.14
100	0.28	0.27	0.28	0.27	0.28	0.28	0.29	0.28	0.29	0.29	0.30	0.30	0.25	0.25	0.24	0.24	0.23	0.23	0.22
105	0.38	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.35	0.33	0.33	0.33	0.32	0.32	0.31
110	0.48	0.45	0.45	0.44	0.45	0.45	0.46	0.46	0.46	0.46	0.47	0.47	0.44	0.42	0.41	0.41	0.40	0.40	0.39
115	0.58	0.55	0.54	0.53	0.53	0.53	0.54	0.53	0.54	0.54	0.55	0.56	0.52	0.50	0.48	0.48	0.47	0.47	0.47
120	0.67	0.65	0.62	0.60	0.60	0.60	0.61	0.60	0.61	0.61	0.62	0.64	0.59	0.57	0.55	0.55	0.53	0.53	0.53
125	0.74	0.71	0.68	0.67	0.65	0.66	0.67	0.66	0.66	0.67	0.67	0.71	0.65	0.61	0.60	0.59	0.58	0.58	0.58
130	0.77	0.74	0.72	0.72	0.71	0.70	0.70	0.70	0.71	0.72	0.71	0.73	0.67	0.63	0.63	0.63	0.61	0.60	0.62
135	0.79	0.76	0.75	0.76	0.72	0.74	0.75	0.72	0.72	0.75	0.73	0.72	0.68	0.65	0.63	0.65	0.62	0.64	0.65
140	0.77	0.75	0.77	0.76	0.75	0.75	0.75	0.73	0.74	0.75	0.74	0.72	0.67	0.64	0.63	0.65	0.63	0.63	0.67
145	0.76	0.74	0.76	0.74	0.74	0.76	0.75	0.73	0.73	0.72	0.72	0.70	0.65	0.62	0.62	0.59	0.63	0.64	0.66
150	0.71	0.70	0.71	0.73	0.72	0.74	0.72	0.71	0.70	0.70	0.66	0.67	0.60	0.58	0.56	0.58	0.59	0.60	0.66
155	0.64	0.65	0.64	0.68	0.70	0.70	0.68	0.66	0.67	0.65	0.60	0.63	0.53	0.53	0.52	0.52	0.56	0.54	0.56
160	0.58	0.62	0.59	0.59	0.63	0.68	0.68	0.64	0.60	0.55	0.55	0.58	0.47	0.47	0.45	0.44	0.48	0.53	0.56
165	0.51	0.55	0.55	0.53	0.54	0.58	0.58	0.55	0.52	0.48	0.50	0.50	0.40	0.39	0.38	0.41	0.43	0.45	0.47
170	0.51	0.52	0.55	0.53	0.51	0.53	0.52	0.50	0.48	0.48	0.47	0.48	0.43	0.42	0.41	0.41	0.42	0.45	0.46
175	0.49	0.50	0.52	0.52	0.50	0.49	0.48	0.48	0.50	0.48	0.46	0.46	0.44	0.42	0.42	0.44	0.44	0.43	0.43
180	0.49	0.49	0.50	0.52	0.50	0.48	0.49	0.49	0.49	0.52	0.51	0.49	0.49	0.49	0.50	0.52	0.50	0.49	0.50

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: MEDIUM

Temperature:25.3DEG

Operators:

Test Date:15 July 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:119.97V I:0.0897A P:10.417W PF:0.9685 Freq:59.98Hz Lamp Flux:558.029x1 lm		
NAME: 57721	TYPE:0	WEIGHT:
SPEC.:10W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	184	184	184	184	184														
5	184	184	184	184	183														
10	182	183	182	183	182														
15	178	180	179	180	179														
20	174	175	175	175	175														
25	169	170	169	170	169														
30	162	162	162	163	162														
35	153	153	153	154	153														
40	142	142	143	143	143														
45	129	131	131	131	131														
50	116	117	117	118	117														
55	102	103	103	104	103														
60	87.0	87.5	87.8	88.8	88.2														
65	70.9	72.0	72.3	73.2	72.4														
70	55.4	56.1	56.6	57.4	56.6														
75	39.7	40.6	40.8	41.6	40.5														
80	24.6	25.7	25.9	26.5	25.5														
85	11.6	12.5	12.7	13.2	12.5														
90	1.77	2.36	2.68	2.86	2.62														
95	0.14	0.13	0.13	0.13	0.14														
100	0.22	0.21	0.22	0.21	0.24														
105	0.31	0.30	0.32	0.34	0.36														
110	0.39	0.39	0.44	0.45	0.46														
115	0.46	0.46	0.50	0.52	0.53														
120	0.52	0.52	0.57	0.59	0.62														
125	0.58	0.57	0.59	0.64	0.68														
130	0.61	0.61	0.64	0.68	0.70														
135	0.65	0.62	0.67	0.66	0.72														
140	0.63	0.64	0.66	0.67	0.71														
145	0.66	0.64	0.62	0.65	0.70														
150	0.61	0.62	0.62	0.60	0.62														
155	0.57	0.60	0.55	0.57	0.60														
160	0.54	0.50	0.48	0.52	0.53														
165	0.47	0.45	0.45	0.46	0.48														
170	0.46	0.44	0.46	0.49	0.54														
175	0.44	0.44	0.48	0.49	0.49														
180	0.49	0.49	0.52	0.50	0.49														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:15 July 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: