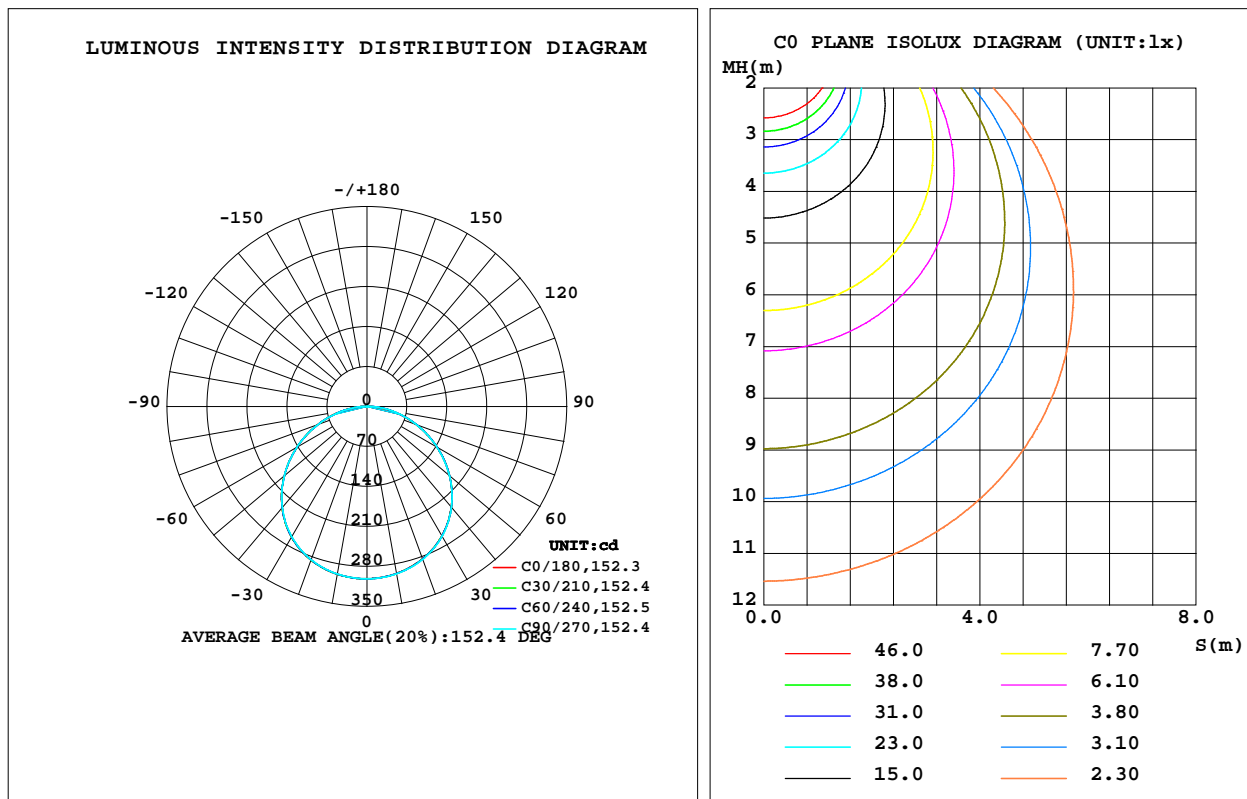


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.94V I:0.1203A P:14.147W PF:0.9805 Freq:59.98Hz Lamp Flux:916.949x1 lm		
NAME: 57713	TYPE:0	WEIGHT:
SPEC.:15W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 64.82 lm/W			
MODEL	57713	I _{max} (cd)	301.7	S/MH(C0/180)	1.30
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	916.95	h UP,DN(C0-180)	0.3,49.8
NOMINAL FLUX(lm)	916.949	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.3,49.6
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	296.9	297.2	297.5	297.8	298.1	298.1	297.8	297.2	0- 10	28.60	28.60	3.12,3.12
20	284.1	284.7	285.0	285.9	286.3	285.9	285.7	284.5	10- 20	82.63	111.2	12.1,12.1
30	262.1	262.8	262.9	263.7	264.3	263.7	263.6	262.3	20- 30	127.0	238.2	26,26
40	229.9	230.8	230.3	230.9	231.3	230.5	230.8	229.8	30- 40	155.2	393.4	42.9,42.9
50	188.8	189.9	188.6	189.1	189.2	188.2	189.0	188.3	40- 50	162.4	555.8	60.6,60.6
60	141.4	142.9	141.2	141.4	141.2	139.8	141.1	140.4	50- 60	147.9	703.8	76.7,76.7
70	90.76	92.75	91.26	91.31	90.87	89.42	90.34	89.04	60- 70	114.8	818.5	89.3,89.3
80	41.88	44.24	43.70	43.20	42.52	41.33	41.35	40.56	70- 80	69.83	888.4	96.9,96.9
90	1.886	4.669	5.096	5.390	4.339	2.314	2.055	1.296	80- 90	23.18	911.5	99.4,99.4
100	0.5335	0.5165	0.5184	0.5097	0.4387	0.4363	0.4356	0.4293	90-100	0.6109	912.2	99.5,99.5
110	0.8284	0.7753	0.7815	0.7701	0.7320	0.6983	0.7087	0.7039	100-110	0.6475	912.8	99.5,99.5
120	1.097	1.026	1.003	1.008	0.9588	0.9021	0.9051	0.9192	110-120	0.8544	913.7	99.6,99.6
130	1.238	1.184	1.137	1.160	1.055	1.028	1.019	1.053	120-130	0.9328	914.6	99.7,99.7
140	1.273	1.259	1.202	1.213	1.080	1.073	1.044	1.114	130-140	0.8721	915.5	99.8,99.8
150	1.191	1.236	1.142	1.170	0.9946	0.9591	1.023	1.037	140-150	0.7076	916.2	99.9,99.9
160	0.9787	0.9993	1.112	0.9356	0.8000	0.7558	0.9180	0.8122	150-160	0.4656	916.6	100,100
170	0.8360	0.8840	0.8537	0.8002	0.7045	0.6808	0.7797	0.7579	160-170	0.2347	916.9	100,100
180	0.8302	0.8801	0.8262	0.8841	0.8338	0.8792	0.8281	0.8822	170-180	0.0763	916.9	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:119.94V I:0.1203A P:14.147W PF:0.9805 Freq:59.98Hz Lamp Flux:916.949x1 lm											
NAME: 57713					TYPE:0			WEIGHT:			
SPEC.:15W					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	11.0	12.6	11.3	12.8	13.0	11.0	12.5	11.3	12.7	12.9	
	3H	12.7	14.1	13.0	14.3	14.6	12.6	14.0	12.9	14.3	14.5
	4H	13.3	14.7	13.7	15.0	15.2	13.3	14.6	13.6	14.9	15.2
	6H	13.9	15.1	14.2	15.4	15.7	13.8	15.1	14.2	15.4	15.7
	8H	14.1	15.3	14.4	15.6	15.9	14.0	15.3	14.4	15.6	15.9
	12H	14.2	15.3	14.5	15.7	16.0	14.2	15.4	14.6	15.7	16.0
4H	2H	11.7	13.0	12.0	13.3	13.6	11.6	13.0	11.9	13.2	13.5
	3H	13.5	14.7	13.8	15.0	15.3	13.4	14.6	13.8	14.9	15.2
	4H	14.3	15.4	14.7	15.7	16.1	14.3	15.3	14.6	15.7	16.0
	6H	15.0	15.9	15.4	16.3	16.7	14.9	15.9	15.4	16.3	16.7
	8H	15.2	16.1	15.6	16.5	16.9	15.2	16.1	15.6	16.5	16.9
	12H	15.4	16.2	15.8	16.6	17.0	15.4	16.3	15.9	16.7	17.1
8H	4H	14.6	15.5	15.0	15.9	16.3	14.6	15.5	15.0	15.9	16.2
	6H	15.5	16.2	15.9	16.6	17.1	15.4	16.2	15.9	16.6	17.1
	8H	15.8	16.5	16.3	16.9	17.4	15.8	16.5	16.3	16.9	17.4
	12H	16.1	16.6	16.5	17.1	17.6	16.2	16.7	16.6	17.2	17.7
12H	4H	14.6	15.5	15.1	15.9	16.3	14.6	15.4	15.0	15.8	16.2
	6H	15.5	16.2	16.0	16.6	17.1	15.5	16.2	16.0	16.6	17.1
	8H	15.9	16.5	16.4	17.0	17.5	16.0	16.5	16.5	17.0	17.5
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					

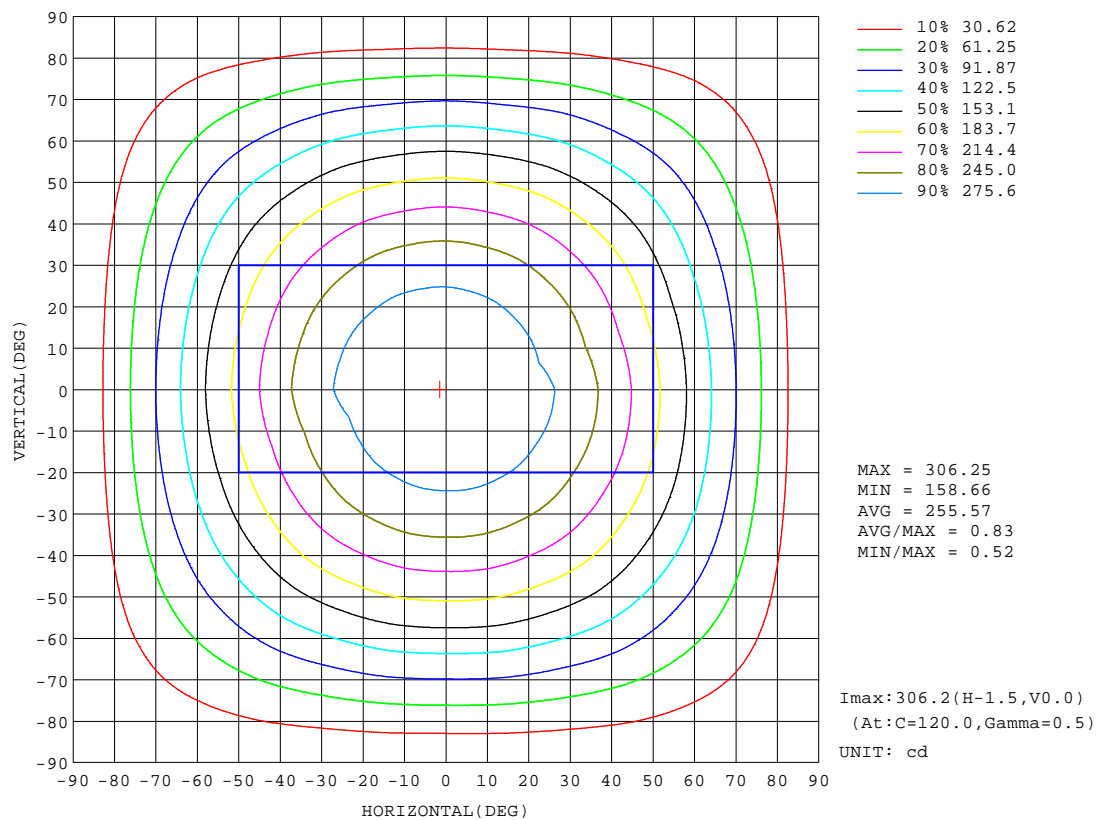
CIE Pub.117, 916.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.3)

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:119.94V I:0.1203A P:14.147W PF:0.9805 Freq:59.98Hz Lamp Flux:916.949x1 lm		
NAME: 57713	TYPE:0	WEIGHT:
SPEC.:15W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



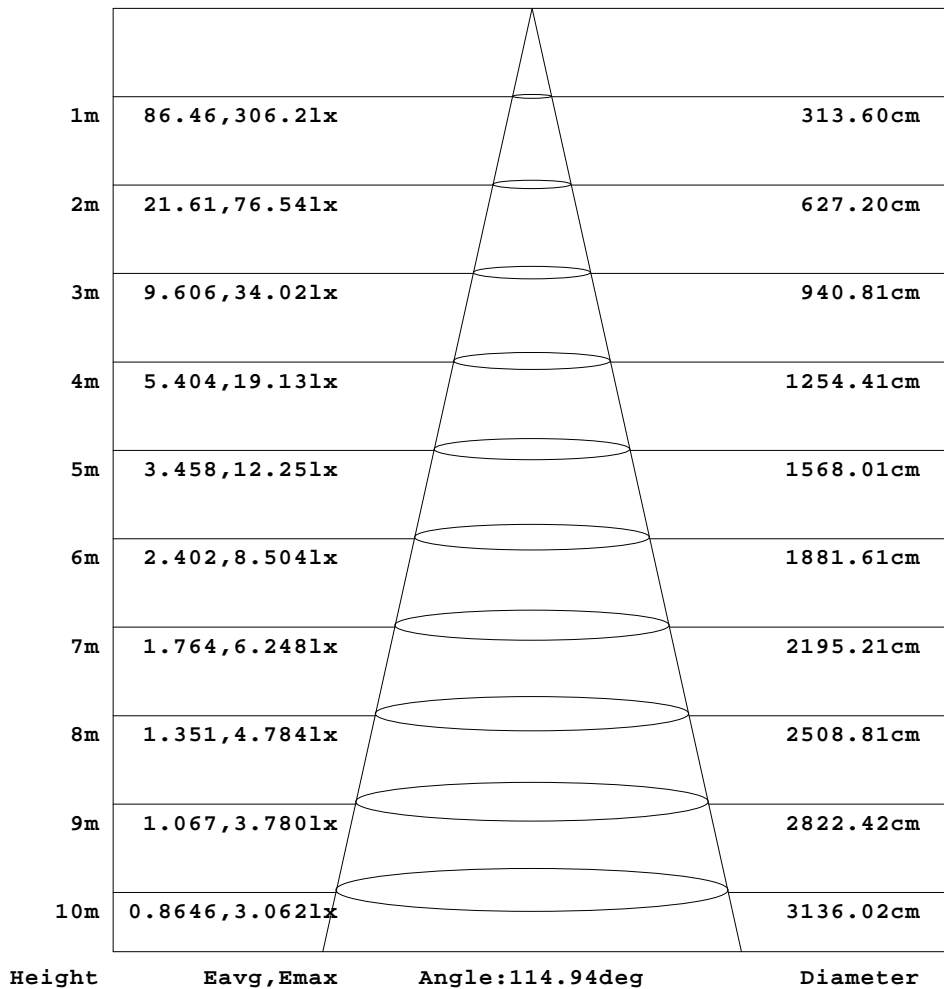
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:15 July 2020

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:119.94V I:0.1203A P:14.147W PF:0.9805 Freq:59.98Hz Lamp Flux:916.949x1 lm		
NAME: 57713	TYPE:0	WEIGHT:
SPEC.:15W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:669.2 lm



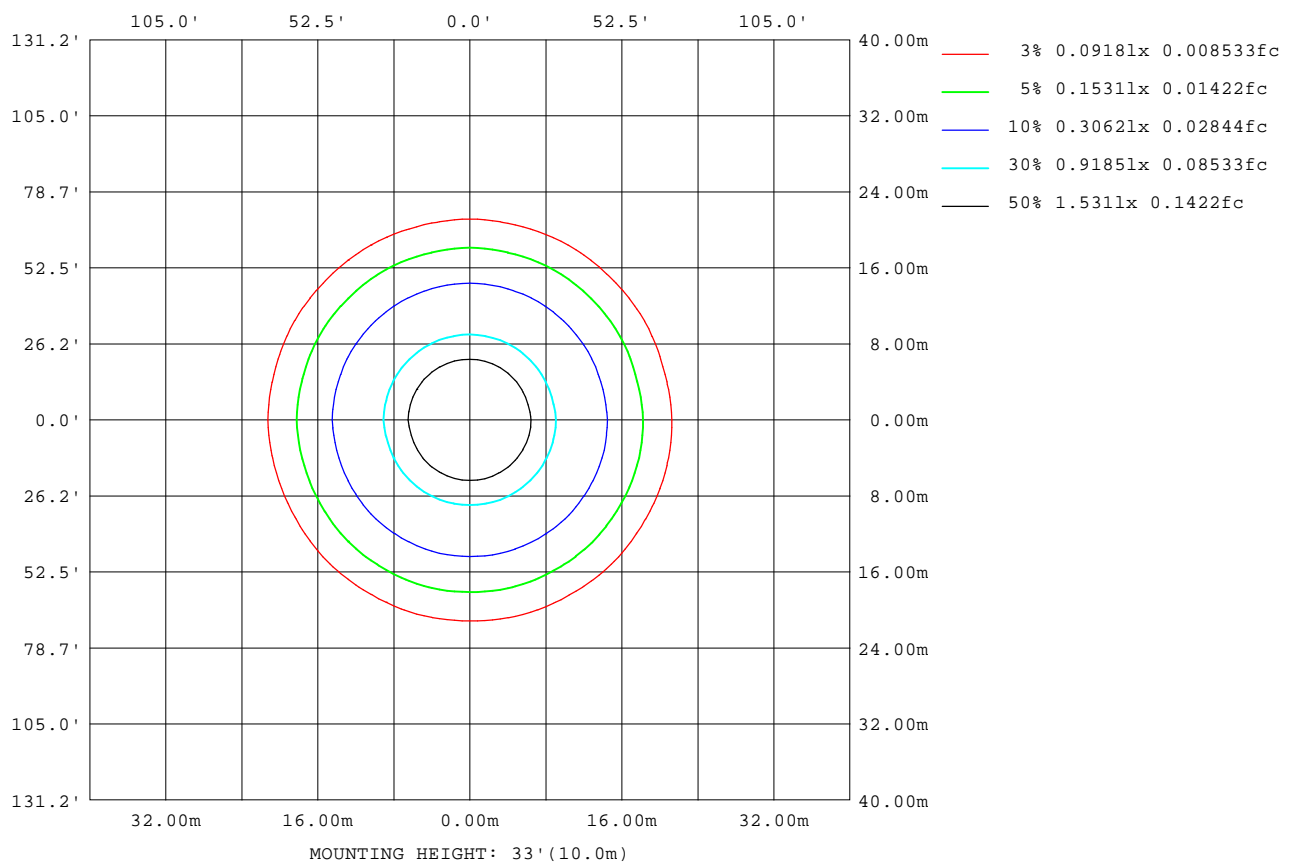
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.94V I:0.1203A P:14.147W PF:0.9805 Freq:59.98Hz Lamp Flux:916.949x1 lm		
NAME: 57713	TYPE:0	WEIGHT:
SPEC.:15W	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:119.94V I:0.1203A P:14.147W PF:0.9805 Freq:59.98Hz Lamp Flux:916.949x1 lm		
NAME: 57713	TYPE:0	WEIGHT:
SPEC.:15W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

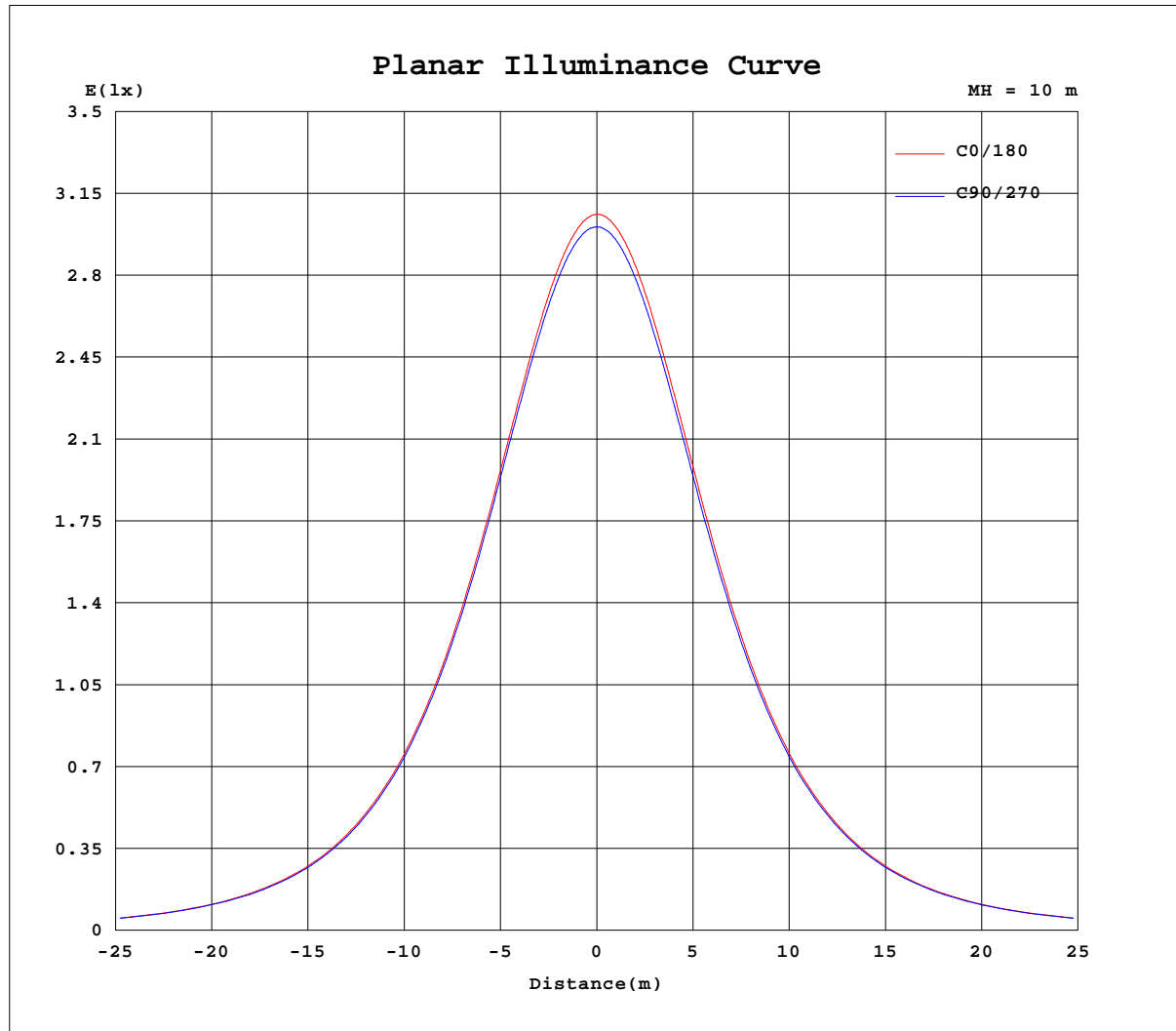
AvgL	cd/m2
L_0~180(65)av	550
L_0~180(75)av	510
L_0~180(85)av	439
L_90~270(65)av	549
L_90~270(75)av	511
L_90~270(85)av	484
L_45(65)av	549
L_45(75)av	510
L_45(85)av	481

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:119.94V I:0.1203A P:14.147W PF:0.9805 Freq:59.98Hz Lamp Flux:916.949x1 lm		
NAME: 57713	TYPE:0	WEIGHT:
SPEC.:15W	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	302	302	302	302	302	302	302	302	302	302	302	302	302	302	302	302	302	302	302
5	300	300	300	300	300	301	301	301	301	301	301	301	301	301	301	301	301	301	301
10	297	297	297	297	297	298	298	298	298	298	298	298	298	298	298	298	298	298	298
15	292	292	292	292	292	292	292	293	293	293	293	293	293	293	293	293	293	293	293
20	284	285	284	285	285	285	285	285	285	286	286	286	286	286	286	286	286	286	286
25	274	275	275	275	275	275	275	276	276	276	276	276	277	276	277	276	276	276	276
30	262	263	262	263	262	263	263	263	263	264	263	264	264	264	264	264	264	263	264
35	247	248	247	248	248	248	248	248	248	249	248	249	249	249	249	248	249	248	249
40	230	231	230	231	230	231	230	231	230	231	230	231	231	231	231	230	231	230	231
45	210	211	211	211	210	211	210	211	210	211	210	211	211	210	211	210	211	210	211
50	189	190	189	190	189	190	189	189	188	189	188	189	189	188	189	188	189	188	189
55	166	167	166	167	166	167	165	166	165	166	165	165	166	165	166	165	166	165	166
60	141	143	142	143	142	143	141	142	141	141	140	141	141	140	141	140	141	140	141
65	116	118	117	118	117	118	116	117	116	116	115	116	116	115	116	115	116	115	116
70	90.8	92.3	91.5	92.7	91.6	92.6	91.3	92.0	90.7	91.3	90.1	90.8	90.9	89.5	90.6	89.4	90.4	89.2	90.3
75	66.0	67.2	67.0	67.8	67.3	67.9	67.1	67.4	66.4	66.6	65.8	66.1	66.0	65.2	65.6	64.9	65.4	64.7	65.2
80	41.9	43.2	43.3	44.2	43.9	44.5	43.7	43.9	43.0	43.2	42.5	42.6	42.5	41.7	42.1	41.3	41.7	41.0	41.4
85	18.0	18.9	19.3	22.7	22.4	23.0	22.4	22.7	21.9	22.3	19.5	19.6	20.3	20.6	20.9	20.1	20.4	19.5	19.8
90	1.89	2.68	2.90	4.67	4.50	5.54	5.10	5.55	5.16	5.39	4.34	4.30	4.34	4.08	3.98	2.31	2.90	2.07	2.06
95	0.40	0.40	0.41	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.29	0.29	0.30	0.30	0.30	0.30
100	0.53	0.52	0.52	0.52	0.52	0.52	0.52	0.51	0.51	0.51	0.53	0.53	0.44	0.43	0.43	0.44	0.44	0.44	0.44
105	0.68	0.66	0.66	0.65	0.65	0.66	0.66	0.65	0.65	0.64	0.64	0.65	0.58	0.57	0.57	0.57	0.58	0.58	0.58
110	0.83	0.81	0.80	0.78	0.78	0.77	0.78	0.77	0.77	0.77	0.77	0.79	0.73	0.71	0.69	0.70	0.70	0.71	0.71
115	0.97	0.94	0.93	0.91	0.90	0.90	0.90	0.89	0.89	0.90	0.90	0.92	0.86	0.83	0.80	0.81	0.80	0.80	0.81
120	1.10	1.07	1.04	1.03	1.01	1.00	1.00	0.99	1.00	1.01	1.00	1.03	0.96	0.92	0.89	0.90	0.89	0.89	0.91
125	1.19	1.15	1.13	1.12	1.09	1.09	1.09	1.07	1.08	1.09	1.08	1.10	1.03	0.98	0.96	0.97	0.96	0.96	0.97
130	1.24	1.20	1.19	1.18	1.15	1.15	1.14	1.12	1.14	1.16	1.15	1.13	1.06	1.00	1.02	1.03	1.01	1.00	1.02
135	1.28	1.23	1.24	1.24	1.19	1.19	1.19	1.16	1.18	1.20	1.18	1.16	1.09	1.03	1.04	1.07	1.03	1.01	1.04
140	1.27	1.24	1.28	1.26	1.21	1.21	1.20	1.17	1.19	1.21	1.21	1.16	1.08	1.03	1.04	1.07	1.04	1.02	1.04
145	1.26	1.24	1.30	1.25	1.22	1.21	1.19	1.16	1.18	1.19	1.21	1.17	1.06	1.03	1.04	1.00	1.04	1.03	1.05
150	1.19	1.19	1.20	1.24	1.18	1.18	1.14	1.12	1.14	1.17	1.11	1.12	0.99	0.95	0.93	0.96	0.94	0.98	1.02
155	1.09	1.09	1.09	1.17	1.16	1.15	1.12	1.08	1.09	1.10	1.00	1.02	0.90	0.85	0.85	0.90	0.87	0.89	0.93
160	0.98	1.01	0.97	1.00	1.07	1.13	1.11	1.06	1.00	0.94	0.89	0.92	0.80	0.76	0.75	0.76	0.80	0.88	0.92
165	0.85	0.89	0.89	0.89	0.92	0.95	0.93	0.89	0.86	0.81	0.79	0.79	0.69	0.65	0.65	0.69	0.72	0.76	0.78
170	0.84	0.87	0.91	0.88	0.86	0.87	0.85	0.85	0.81	0.80	0.78	0.77	0.70	0.67	0.67	0.68	0.72	0.76	0.78
175	0.83	0.85	0.88	0.88	0.85	0.85	0.84	0.85	0.86	0.83	0.78	0.77	0.74	0.71	0.71	0.75	0.77	0.76	0.75
180	0.83	0.83	0.85	0.88	0.85	0.83	0.83	0.83	0.84	0.88	0.85	0.83	0.83	0.83	0.85	0.88	0.85	0.83	0.83

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:119.94V I:0.1203A P:14.147W PF:0.9805 Freq:59.98Hz Lamp Flux:916.949x1 lm		
NAME: 57713	TYPE:0	WEIGHT:
SPEC.:15W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	302	302	302	302	302														
5	301	301	300	300	300														
10	298	297	297	297	297														
15	292	292	292	292	292														
20	285	285	285	285	284														
25	275	275	275	275	274														
30	263	263	262	263	262														
35	248	248	247	248	247														
40	230	231	230	230	230														
45	210	211	210	211	210														
50	188	189	188	189	188														
55	165	166	165	166	165														
60	140	141	140	142	141														
65	115	116	115	116	115														
70	88.9	90.4	89.0	90.8	90.0														
75	64.5	65.0	64.6	65.4	65.2														
80	40.6	41.1	40.6	41.3	41.2														
85	19.0	19.5	18.9	19.7	19.4														
90	1.43	1.50	1.30	1.60	1.56														
95	0.30	0.29	0.29	0.29	0.29														
100	0.44	0.43	0.43	0.43	0.43														
105	0.58	0.57	0.57	0.57	0.58														
110	0.71	0.69	0.70	0.71	0.73														
115	0.80	0.80	0.82	0.82	0.85														
120	0.89	0.89	0.92	0.93	0.96														
125	0.97	0.97	0.99	1.00	1.04														
130	1.01	1.03	1.05	1.06	1.06														
135	1.03	1.05	1.11	1.08	1.10														
140	1.03	1.08	1.11	1.11	1.10														
145	1.07	1.07	1.05	1.11	1.10														
150	1.02	0.98	1.04	1.01	1.04														
155	0.94	0.94	0.95	0.92	0.96														
160	0.91	0.85	0.81	0.82	0.87														
165	0.79	0.77	0.75	0.74	0.77														
170	0.77	0.75	0.76	0.79	0.78														
175	0.75	0.75	0.80	0.83	0.81														
180	0.83	0.84	0.88	0.85	0.84														

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: