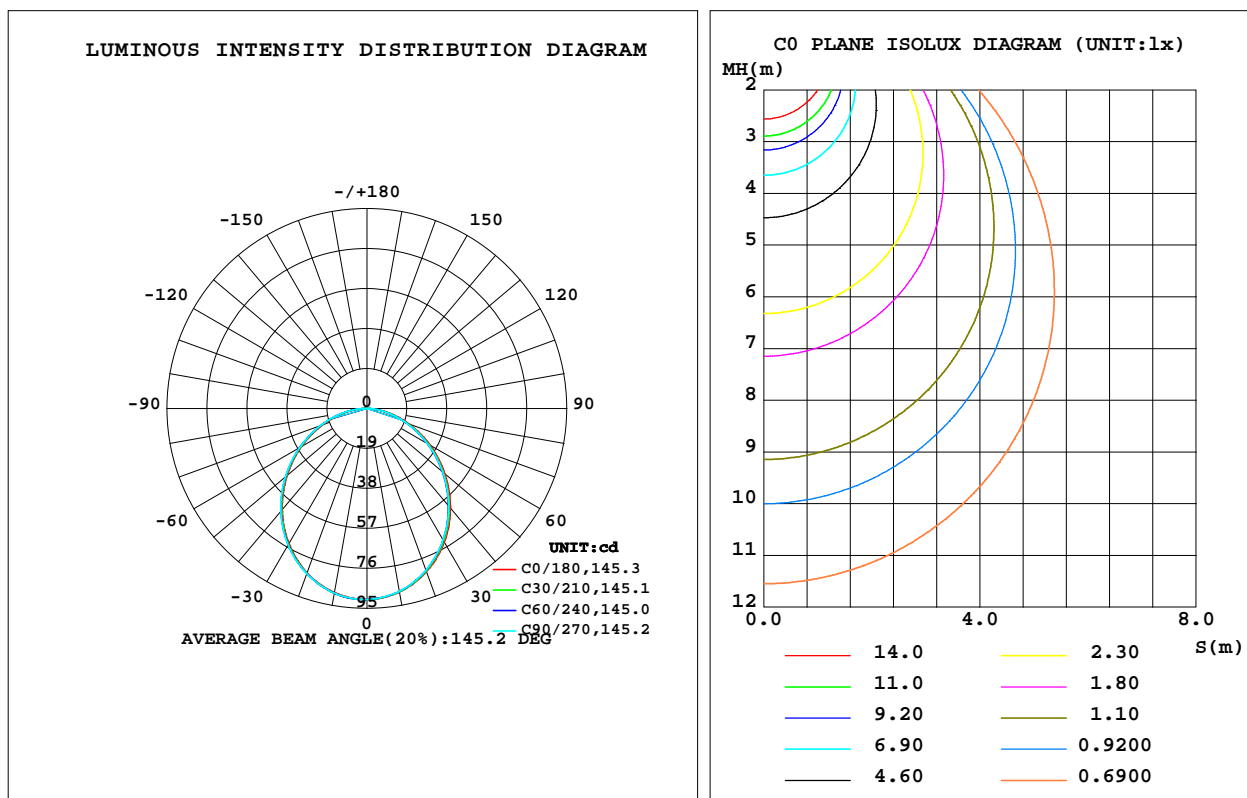


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.01V I:0.0380A P:4.4323W PF:0.9732 Freq:59.98Hz Lamp Flux:241.333x1 lm		
NAME: MVP-1-WH2	TYPE:	WEIGHT:
SPEC.:4.3W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 54.45 lm/W			
MODEL	MVP-1-WH2	I _{max} (cd)	90.79	S/MH(C0/180)	1.22
NOMINAL POWER(W)	4.3	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	241.33	h UP,DN(C0-180)	0.2,48.7
NOMINAL FLUX(lm)	241.333	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.2,51.0
LAMPS INSIDE	1	h up(%)	0.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	99.6	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:16 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	88.62	88.40	88.28	88.57	88.78	89.17	89.13	88.84	0- 10	8.565	8.565	3.55,3.55
20	82.62	82.13	81.86	82.62	83.21	83.36	83.61	83.14	10- 20	24.31	32.87	13.6,13.6
30	73.46	72.66	72.29	73.50	74.18	74.57	74.95	74.19	20- 30	36.21	69.08	28.6,28.6
40	61.74	60.67	60.46	61.79	62.70	63.23	63.70	62.84	30- 40	42.64	111.7	46.3,46.3
50	48.34	47.22	47.05	48.41	49.57	50.10	50.64	49.72	40- 50	42.91	154.6	64.1,64.1
60	34.49	33.38	33.14	34.46	35.71	36.30	36.84	35.91	50- 60	37.51	192.1	79.6,79.6
70	21.03	20.00	19.70	20.92	22.11	22.78	23.30	22.37	60- 70	27.91	220.1	91.2,91.2
80	8.743	7.917	7.699	8.744	9.807	10.36	10.68	9.777	70- 80	16.07	236.1	97.8,97.8
90	0.0043	0.0060	0.0075	0.0093	0	0.0012	0	0	80- 90	4.273	240.4	99.6,99.6
100	0.0575	0.0597	0.0632	0.0543	0.0361	0.0219	0.0199	0.0258	90-100	0.0184	240.4	99.6,99.6
110	0.1396	0.1314	0.1335	0.1210	0.1054	0.0865	0.0889	0.0953	100-110	0.0795	240.5	99.7,99.7
120	0.2241	0.1991	0.2043	0.1901	0.1752	0.1458	0.1532	0.1570	110-120	0.1450	240.6	99.7,99.7
130	0.2696	0.2505	0.2517	0.2384	0.2161	0.1927	0.2046	0.2050	120-130	0.1819	240.8	99.8,99.8
140	0.2788	0.2837	0.2849	0.2670	0.2267	0.2039	0.2319	0.2179	130-140	0.1838	241.0	99.9,99.9
150	0.2641	0.2735	0.3089	0.2540	0.2060	0.1869	0.2403	0.1992	140-150	0.1552	241.2	99.9,99.9
160	0.2299	0.2295	0.2453	0.2006	0.1767	0.1518	0.1847	0.1753	150-160	0.1039	241.3	100,100
170	0.2219	0.2193	0.1987	0.1941	0.1859	0.1601	0.1767	0.1843	160-170	0.0551	241.3	100,100
180	0.2139	0.2319	0.2201	0.2309	0.2167	0.2288	0.2183	0.2315	170-180	0.0190	241.3	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:16 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:120.01V I:0.0380A P:4.4323W PF:0.9732 Freq:59.98Hz Lamp Flux:241.333x1 lm										
NAME: MVP-1-WH2					TYPE:			WEIGHT:		
SPEC.:4.3W					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	6.0	7.4	6.2	7.7	7.9	5.7	7.2	6.0	7.4	7.7
3H	7.4	8.8	7.7	9.0	9.2	7.1	8.5	7.4	8.7	9.0
4H	8.0	9.3	8.3	9.5	9.8	7.6	8.9	7.9	9.2	9.4
6H	8.4	9.6	8.7	9.9	10.2	8.0	9.2	8.3	9.5	9.8
8H	8.4	9.6	8.8	9.9	10.2	8.1	9.2	8.4	9.5	9.8
12H	8.4	9.6	8.8	9.9	10.2	8.1	9.2	8.4	9.5	9.8
4H 2H	6.5	7.8	6.8	8.0	8.3	6.3	7.6	6.6	7.9	8.1
3H	8.1	9.2	8.4	9.5	9.8	7.8	9.0	8.2	9.3	9.6
4H	8.8	9.8	9.2	10.1	10.5	8.5	9.5	8.9	9.9	10.2
6H	9.3	10.2	9.7	10.6	11.0	8.9	9.9	9.3	10.2	10.6
8H	9.4	10.3	9.9	10.7	11.1	9.1	9.9	9.5	10.3	10.7
12H	9.4	10.2	9.9	10.6	11.0	9.1	9.9	9.6	10.3	10.7
8H 4H	9.0	9.8	9.4	10.2	10.6	8.7	9.6	9.1	10.0	10.3
6H	9.6	10.4	10.1	10.8	11.2	9.3	10.0	9.8	10.4	10.9
8H	9.9	10.5	10.3	10.9	11.4	9.5	10.1	10.0	10.6	11.0
12H	9.9	10.5	10.4	10.9	11.4	9.6	10.2	10.1	10.6	11.1
12H 4H	9.0	9.8	9.4	10.2	10.6	8.7	9.5	9.2	9.9	10.3
6H	9.7	10.3	10.1	10.7	11.2	9.4	10.0	9.8	10.4	10.9
8H	9.9	10.5	10.4	10.9	11.4	9.6	10.1	10.1	10.6	11.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.2					+ 0.2 / - 0.3				

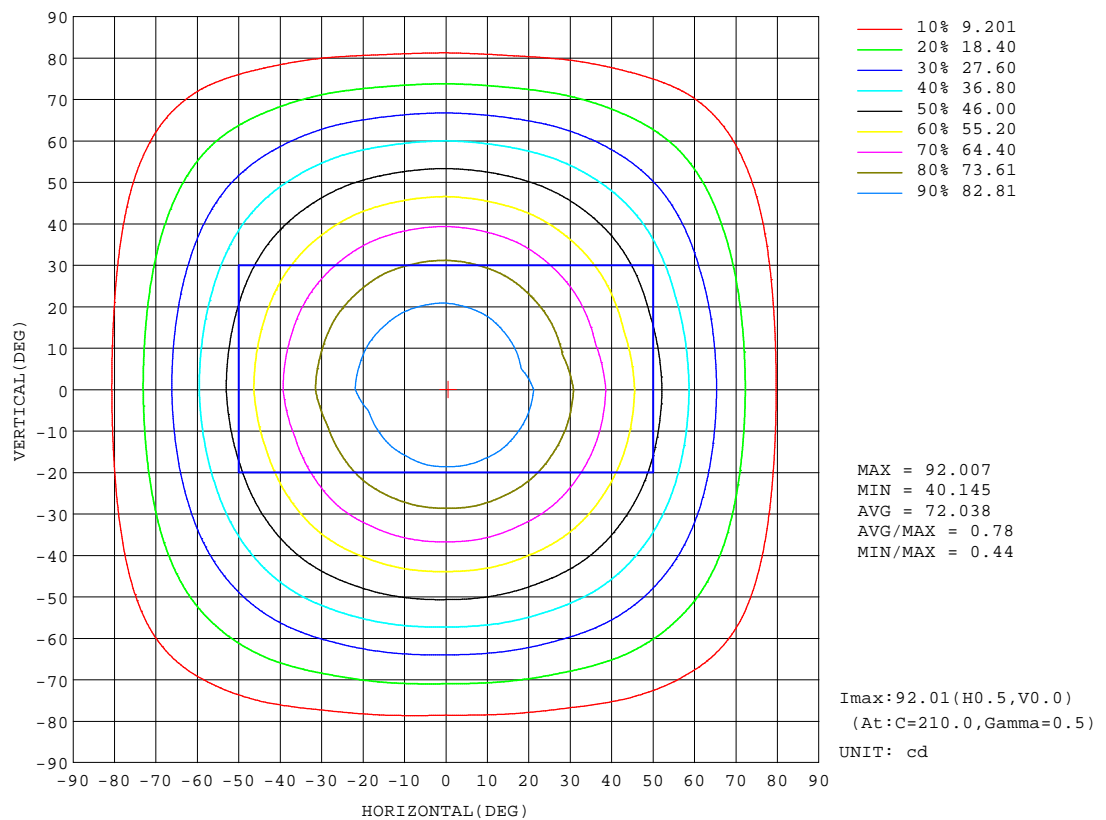
CIE Pub.117, 241.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -4.9)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:16 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:120.01V I:0.0380A P:4.4323W PF:0.9732 Freq:59.98Hz Lamp Flux:241.333x1 lm		
NAME: MVP-1-WH2	TYPE:	WEIGHT:
SPEC.:4.3W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



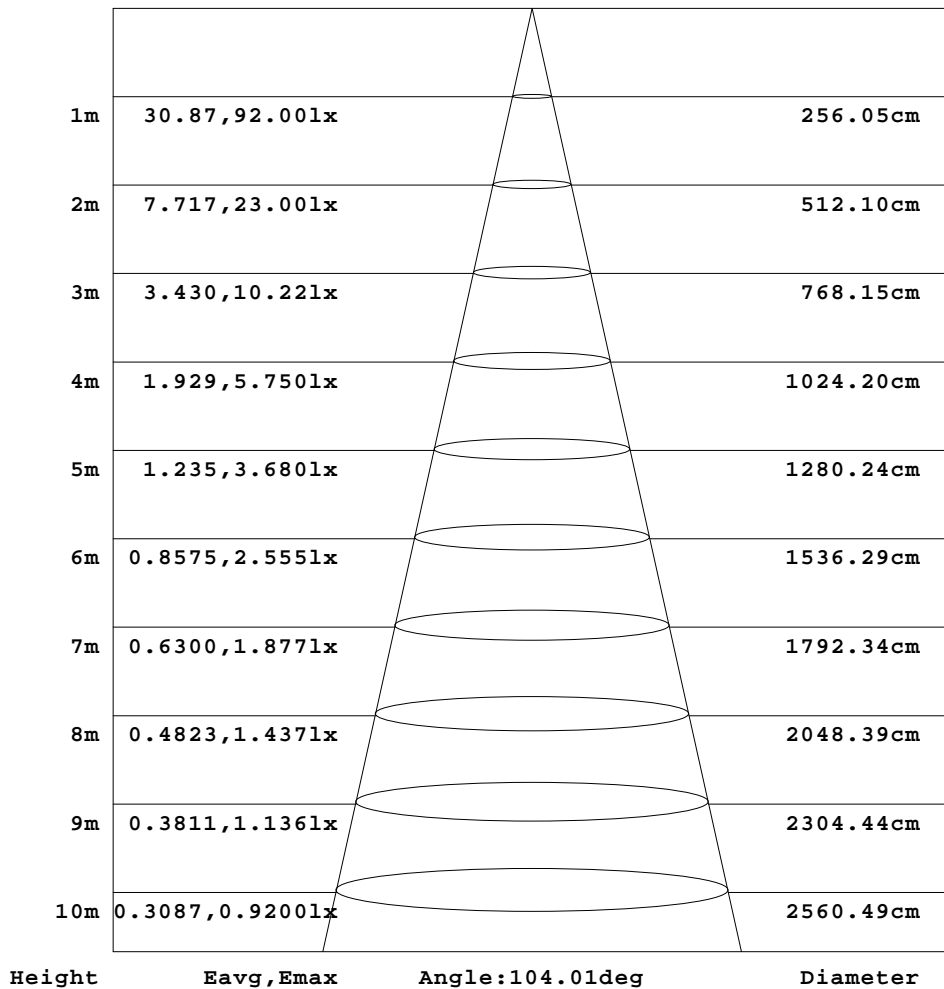
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:16 July 2020

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:120.01V I:0.0380A P:4.4323W PF:0.9732 Freq:59.98Hz Lamp Flux:241.333x1 lm		
NAME: MVP-1-WH2	TYPE:	WEIGHT:
SPEC.:4.3W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:164.7 lm



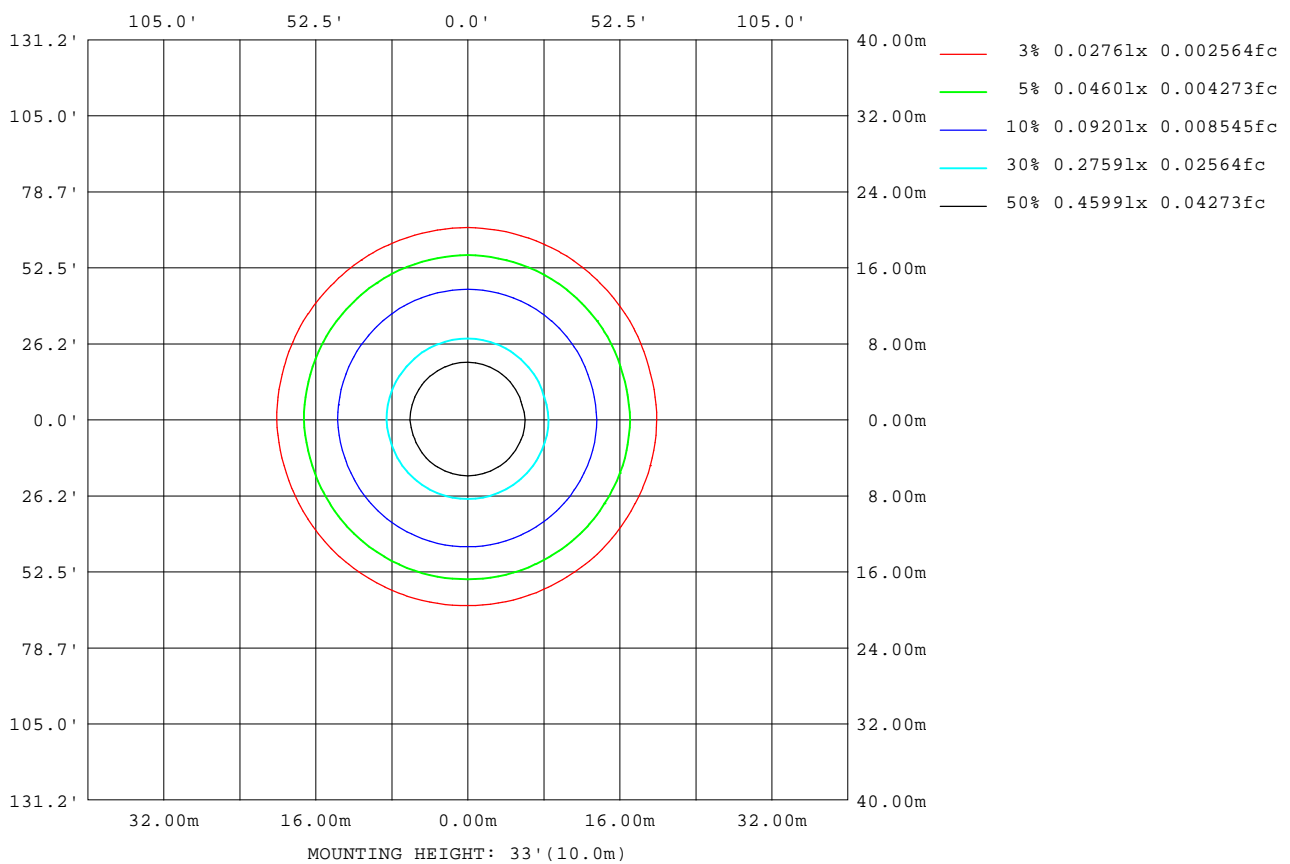
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:16 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:120.01V I:0.0380A P:4.4323W PF:0.9732 Freq:59.98Hz Lamp Flux:241.333x1 lm		
NAME: MVP-1-WH2	TYPE:	WEIGHT:
SPEC.:4.3W	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:16 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:120.01V I:0.0380A P:4.4323W PF:0.9732 Freq:59.98Hz Lamp Flux:241.333x1 lm		
NAME: MVP-1-WH2	TYPE:	WEIGHT:
SPEC.:4.3W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

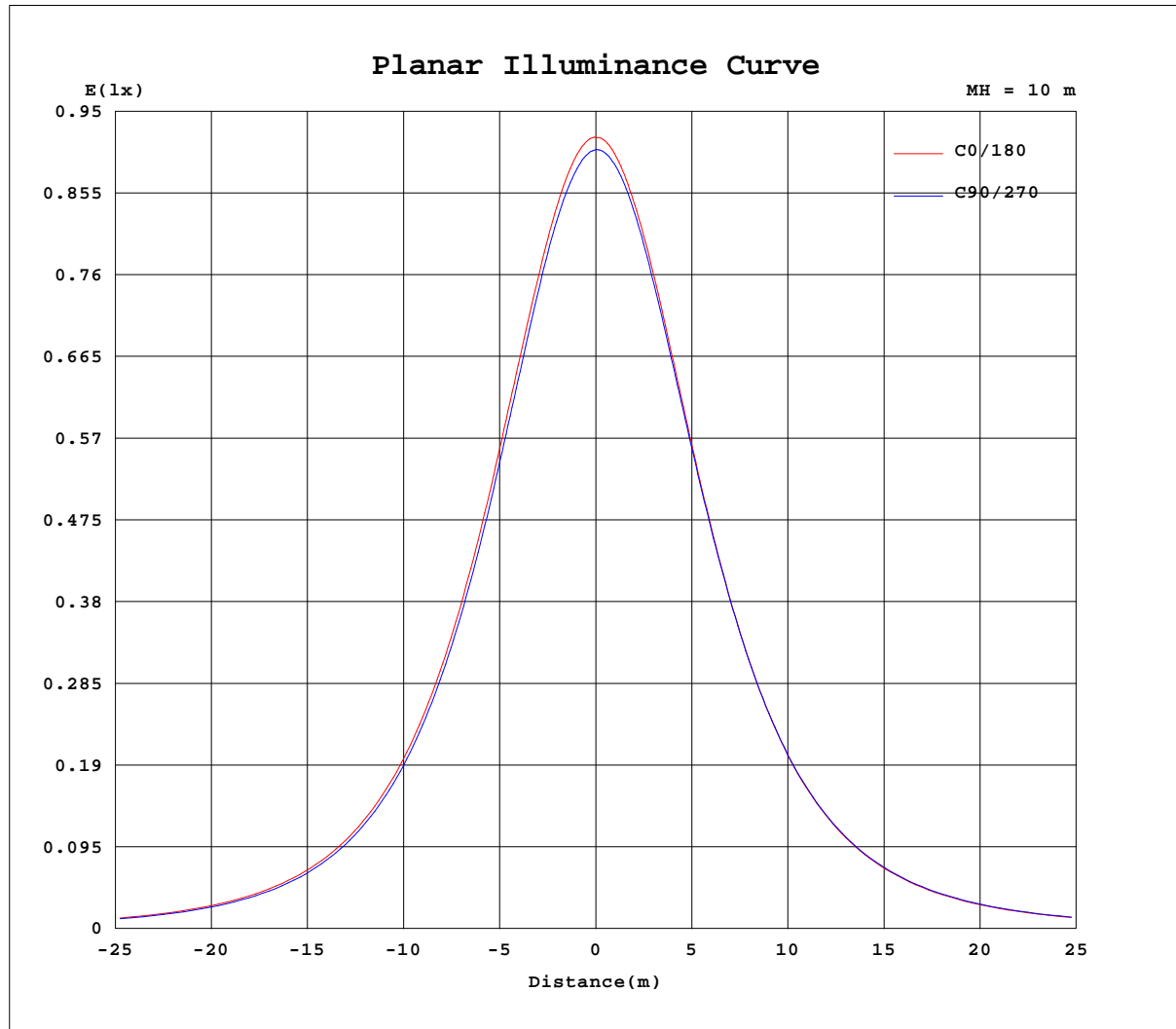
AvgL	cd/m2
L_0~180(65)av	134
L_0~180(75)av	118
L_0~180(85)av	21
L_90~270(65)av	133
L_90~270(75)av	117
L_90~270(85)av	88
L_45(65)av	133
L_45(75)av	117
L_45(85)av	89

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:16 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: 16 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:120.01V I:0.0380A P:4.4323W PF:0.9732 Freq:59.98Hz Lamp Flux:241.333x1 lm		
NAME: MVP-1-WH2	TYPE:	WEIGHT:
SPEC.:4.3W	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	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
5	90.2	90.1	90.1	90.0	90.0	90.0	90.0	90.0	90.0	90.1	90.2	90.3	90.3	90.4	90.5	90.5	90.5	90.4	90.4
10	88.6	88.5	88.5	88.4	88.3	88.3	88.3	88.4	88.4	88.6	88.7	88.8	88.8	88.9	89.1	89.2	89.2	89.1	89.1
15	86.0	86.0	85.8	85.7	85.6	85.6	85.5	85.7	85.7	86.1	86.2	86.4	86.5	86.5	86.7	86.6	86.7	86.7	86.8
20	82.6	82.5	82.3	82.1	81.9	81.9	81.9	82.1	82.2	82.6	82.8	83.1	83.2	83.3	83.4	83.4	83.5	83.5	83.6
25	78.4	78.2	77.9	77.7	77.5	77.5	77.4	77.7	77.9	78.4	78.6	79.0	79.1	79.1	79.4	79.3	79.5	79.5	79.6
30	73.5	73.3	72.8	72.7	72.3	72.4	72.3	72.6	72.9	73.5	73.7	74.1	74.2	74.2	74.5	74.6	74.8	74.8	74.9
35	67.9	67.7	67.1	66.9	66.6	66.7	66.7	67.0	67.3	67.9	68.2	68.6	68.7	68.8	69.1	69.1	69.5	69.5	69.6
40	61.7	61.5	60.9	60.7	60.3	60.5	60.5	60.9	61.1	61.8	62.1	62.6	62.7	62.8	63.2	63.2	63.6	63.5	63.7
45	55.2	54.9	54.3	54.0	53.7	53.9	53.9	54.3	54.5	55.2	55.5	56.1	56.3	56.4	56.8	56.8	57.2	57.1	57.4
50	48.3	48.0	47.4	47.2	46.9	47.1	47.0	47.5	47.7	48.4	48.7	49.3	49.6	49.7	50.1	50.1	50.5	50.4	50.6
55	41.4	41.1	40.5	40.3	39.9	40.1	40.1	40.5	40.8	41.4	41.8	42.4	42.7	42.8	43.2	43.2	43.6	43.5	43.7
60	34.5	34.1	33.5	33.4	33.0	33.2	33.1	33.6	33.8	34.5	34.8	35.4	35.7	35.8	36.3	36.3	36.7	36.6	36.8
65	27.7	27.3	26.7	26.6	26.2	26.4	26.3	26.7	27.0	27.6	27.9	28.5	28.8	29.0	29.4	29.5	29.8	29.8	30.0
70	21.0	20.7	20.1	20.0	19.6	19.8	19.7	20.1	20.3	20.9	21.2	21.8	22.1	22.3	22.7	22.8	23.1	23.1	23.3
75	14.7	14.4	13.8	13.7	13.3	13.5	13.4	13.9	14.0	14.6	14.8	15.5	15.8	15.9	16.4	16.4	16.8	16.7	16.9
80	8.74	8.54	8.02	7.92	7.63	7.74	7.70	8.06	8.17	8.74	8.95	9.54	9.81	9.91	10.4	10.4	10.7	10.5	10.7
85	0.57	3.25	2.93	2.85	2.64	2.72	2.71	2.99	3.15	3.56	3.83	4.27	1.29	4.63	4.91	4.91	5.05	4.92	4.93
90	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00
95	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.03	0.02	0.02	0.02	0.02	0.02
105	0.10	0.09	0.09	0.09	0.09	0.10	0.10	0.09	0.09	0.09	0.09	0.08	0.07	0.06	0.05	0.05	0.05	0.05	0.05
110	0.14	0.13	0.13	0.13	0.13	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.11	0.10	0.09	0.09	0.08	0.09	0.09
115	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.14	0.13	0.12	0.12	0.12	0.12	0.12
120	0.22	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.16	0.15	0.15	0.14	0.15	0.15
125	0.25	0.24	0.24	0.23	0.22	0.23	0.23	0.22	0.22	0.22	0.22	0.22	0.20	0.18	0.18	0.17	0.17	0.17	0.17
130	0.27	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.22	0.20	0.19	0.19	0.19	0.20	0.20
135	0.28	0.27	0.27	0.27	0.26	0.27	0.27	0.26	0.25	0.26	0.25	0.25	0.22	0.21	0.20	0.20	0.21	0.21	0.22
140	0.28	0.27	0.28	0.28	0.29	0.29	0.28	0.28	0.27	0.27	0.25	0.25	0.23	0.21	0.20	0.20	0.22	0.23	0.23
145	0.28	0.26	0.27	0.29	0.30	0.31	0.30	0.30	0.28	0.27	0.25	0.24	0.22	0.20	0.19	0.20	0.21	0.22	0.24
150	0.26	0.26	0.26	0.27	0.30	0.31	0.31	0.29	0.28	0.25	0.24	0.23	0.21	0.19	0.18	0.19	0.22	0.23	0.24
155	0.25	0.25	0.25	0.25	0.27	0.29	0.29	0.27	0.25	0.23	0.22	0.22	0.19	0.18	0.18	0.17	0.19	0.21	0.22
160	0.23	0.24	0.23	0.23	0.25	0.25	0.25	0.24	0.22	0.20	0.20	0.21	0.18	0.17	0.16	0.15	0.17	0.18	0.18
165	0.21	0.22	0.22	0.22	0.22	0.23	0.22	0.22	0.20	0.19	0.19	0.20	0.17	0.16	0.15	0.16	0.17	0.18	0.18
170	0.22	0.22	0.23	0.22	0.21	0.20	0.20	0.20	0.20	0.19	0.20	0.20	0.19	0.18	0.17	0.16	0.17	0.17	0.18
175	0.21	0.22	0.23	0.23	0.22	0.22	0.21	0.20	0.21	0.21	0.20	0.20	0.19	0.18	0.18	0.19	0.19	0.19	0.18
180	0.21	0.22	0.22	0.23	0.22	0.22	0.22	0.22	0.22	0.23	0.22	0.21	0.22	0.22	0.22	0.23	0.22	0.22	0.22

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: MEDIUM

Temperature:25.3DEG

Operators:

Test Date:16 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:120.01V I:0.0380A P:4.4323W PF:0.9732 Freq:59.98Hz Lamp Flux:241.333x1 lm		
NAME: MVP-1-WH2	TYPE:	WEIGHT:
SPEC.:4.3W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	90.8	90.8	90.8	90.8	90.8														
5	90.4	90.4	90.3	90.3	90.2														
10	89.0	89.0	88.8	88.8	88.6														
15	86.6	86.6	86.4	86.4	86.1														
20	83.4	83.4	83.1	83.0	82.7														
25	79.5	79.4	79.0	78.9	78.5														
30	74.8	74.6	74.2	74.0	73.6														
35	69.4	69.3	68.8	68.6	68.1														
40	63.5	63.4	62.8	62.5	61.9														
45	57.1	57.0	56.4	56.1	55.5														
50	50.4	50.3	49.7	49.4	48.7														
55	43.5	43.4	42.8	42.5	41.8														
60	36.6	36.5	35.9	35.6	34.9														
65	29.7	29.6	29.0	28.7	28.0														
70	23.0	22.9	22.4	22.1	21.4														
75	16.5	16.5	15.9	15.7	15.0														
80	10.3	10.3	9.78	9.62	8.98														
85	4.64	4.54	4.17	4.01	3.60														
90	0.00	0.00	0.00	0.00	0.00														
95	0.00	0.00	0.00	0.00	0.00														
100	0.02	0.02	0.03	0.03	0.03														
105	0.06	0.06	0.06	0.06	0.07														
110	0.09	0.09	0.10	0.10	0.11														
115	0.12	0.12	0.13	0.13	0.14														
120	0.15	0.15	0.16	0.17	0.18														
125	0.17	0.17	0.18	0.19	0.20														
130	0.20	0.20	0.20	0.21	0.22														
135	0.22	0.21	0.21	0.21	0.23														
140	0.23	0.22	0.22	0.22	0.23														
145	0.24	0.23	0.21	0.21	0.22														
150	0.24	0.22	0.20	0.21	0.21														
155	0.22	0.20	0.19	0.20	0.20														
160	0.19	0.18	0.18	0.19	0.20														
165	0.19	0.18	0.18	0.18	0.19														
170	0.18	0.18	0.18	0.20	0.20														
175	0.19	0.19	0.20	0.21	0.20														
180	0.22	0.22	0.23	0.22	0.21														

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: MEDIUM

Temperature:25.3DEG

Operators:

Test Date:16 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: