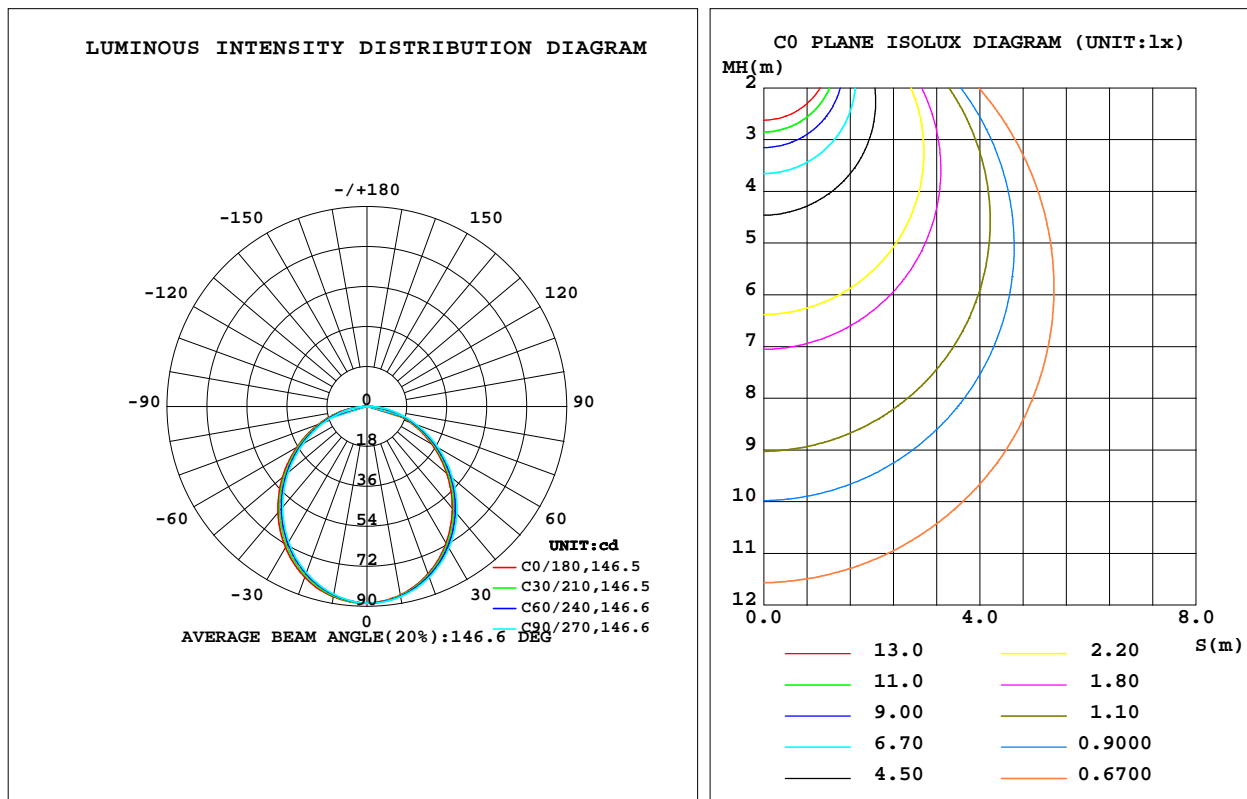


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.02V I:0.0366A P:4.3533W PF:0.9911 Freq:59.98Hz Lamp Flux:239.212x1 lm		
NAME: MVP-1-WH	TYPE:	WEIGHT:
SPEC.:4.3W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 54.95 lm/W			
MODEL	MVP-1-WH	I _{max} (cd)	88.62	S/MH(C0/180)	1.24
NOMINAL POWER(W)	4.3	LOR(%)	100.0	S/MH(C90/270)	1.19
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	239.21	h UP,DN(C0-180)	0.2,51.2
NOMINAL FLUX(lm)	239.212	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.2,48.4
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	86.21	86.66	87.01	87.23	87.00	86.28	85.88	85.74	0- 10	8.352	8.352	3.49,3.49
20	80.26	81.13	81.88	82.39	81.83	80.48	79.61	79.40	10- 20	23.71	32.07	13.4,13.4
30	71.25	72.53	73.75	74.19	73.35	71.58	70.47	70.09	20- 30	35.39	67.46	28.2,28.2
40	59.83	61.58	62.98	63.40	62.33	60.41	59.05	58.59	30- 40	41.79	109.2	45.7,45.7
50	46.97	48.92	50.38	50.83	49.65	47.67	46.25	45.69	40- 50	42.26	151.5	63.3,63.3
60	33.62	35.58	36.94	37.44	36.21	34.30	32.93	32.35	50- 60	37.22	188.7	78.9,78.9
70	20.60	22.45	23.67	24.14	22.94	21.17	20.03	19.45	60- 70	28.01	216.7	90.6,90.6
80	8.766	10.42	11.43	11.89	10.79	9.237	8.374	7.883	70- 80	16.56	233.3	97.5,97.5
90	0.0189	0.0115	0.0410	0.0947	0.0974	0.0000	0	0.0003	80- 90	4.956	238.3	99.6,99.6
100	0.0640	0.0556	0.0521	0.0458	0.0395	0.0420	0.0464	0.0482	90-100	0.0243	238.3	99.6,99.6
110	0.1482	0.1234	0.1182	0.1064	0.1041	0.1054	0.1177	0.1171	100-110	0.0857	238.4	99.6,99.6
120	0.2265	0.1828	0.1850	0.1741	0.1717	0.1632	0.1804	0.1748	110-120	0.1480	238.5	99.7,99.7
130	0.2678	0.2406	0.2336	0.2224	0.2077	0.2036	0.2236	0.2173	120-130	0.1822	238.7	99.8,99.8
140	0.2806	0.2697	0.2660	0.2522	0.2182	0.2123	0.2487	0.2294	130-140	0.1825	238.9	99.9,99.9
150	0.2612	0.2617	0.2936	0.2372	0.2059	0.1863	0.2461	0.2024	140-150	0.1532	239.0	99.9,99.9
160	0.2276	0.2215	0.2415	0.1939	0.1711	0.1512	0.1872	0.1737	150-160	0.1026	239.1	100,100
170	0.2216	0.2163	0.1986	0.1893	0.1821	0.1598	0.1778	0.1826	160-170	0.0545	239.2	100,100
180	0.2137	0.2292	0.2188	0.2285	0.2118	0.2234	0.2188	0.2257	170-180	0.0187	239.2	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:120.02V I:0.0366A P:4.3533W PF:0.9911 Freq:59.98Hz Lamp Flux:239.212x1 lm											
NAME: MVP-1-WH					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	7.5	6.3	7.7	7.9	6.3	7.8	6.6	8.0	8.2	
	3H	7.5	8.8	7.8	9.1	9.3	7.9	9.3	8.2	9.5	9.8
	4H	8.0	9.4	8.4	9.6	9.9	8.6	9.9	8.9	10.1	10.4
	6H	8.5	9.7	8.8	10.0	10.3	9.1	10.4	9.4	10.6	10.9
	8H	8.6	9.8	8.9	10.1	10.4	9.3	10.5	9.7	10.8	11.1
	12H	8.5	9.7	8.9	10.0	10.3	9.5	10.6	9.8	10.9	11.3
4H	2H	6.6	8.0	7.0	8.2	8.5	6.9	8.2	7.2	8.5	8.7
	3H	8.3	9.4	8.6	9.7	10.1	8.6	9.8	9.0	10.1	10.4
	4H	9.0	10.1	9.4	10.4	10.7	9.5	10.5	9.8	10.8	11.2
	6H	9.6	10.5	10.0	10.9	11.2	10.2	11.1	10.6	11.5	11.8
	8H	9.7	10.6	10.1	11.0	11.4	10.4	11.3	10.9	11.7	12.1
	12H	9.7	10.5	10.2	10.9	11.3	10.7	11.5	11.1	11.9	12.3
8H	4H	9.3	10.2	9.7	10.6	11.0	9.7	10.6	10.1	11.0	11.4
	6H	10.0	10.8	10.5	11.2	11.6	10.6	11.3	11.0	11.7	12.2
	8H	10.3	11.0	10.8	11.4	11.8	11.0	11.6	11.4	12.1	12.5
	12H	10.4	11.0	10.9	11.4	11.9	11.3	11.9	11.8	12.3	12.8
12H	4H	9.3	10.2	9.8	10.5	11.0	9.7	10.5	10.2	10.9	11.3
	6H	10.1	10.8	10.6	11.2	11.7	10.6	11.3	11.1	11.7	12.2
	8H	10.4	11.0	10.9	11.5	11.9	11.1	11.6	11.6	12.1	12.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2					

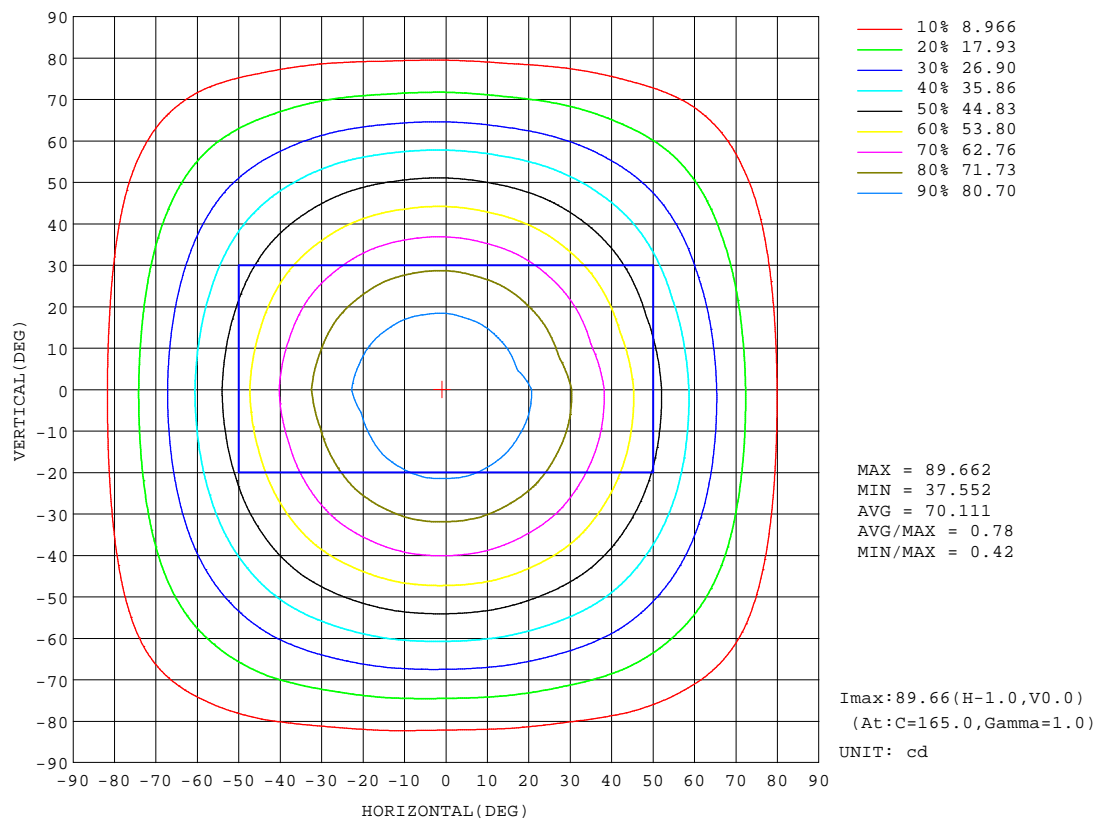
CIE Pub.117, 239.2 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -5.0$)

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:120.02V I:0.0366A P:4.3533W PF:0.9911 Freq:59.98Hz Lamp Flux:239.212x1 lm		
NAME: MVP-1-WH	TYPE:	WEIGHT:
SPEC.:4.3W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



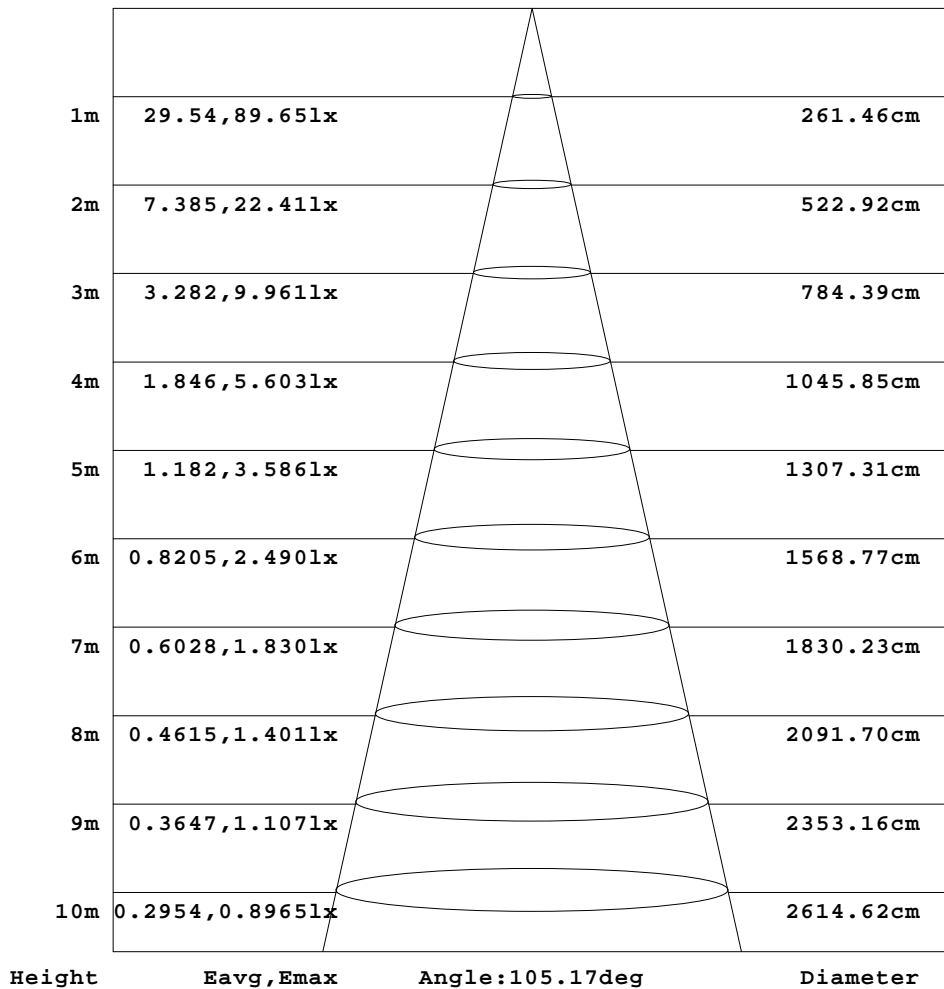
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:16 July 2020

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:120.02V I:0.0366A P:4.3533W PF:0.9911 Freq:59.98Hz Lamp Flux:239.212x1 lm		
NAME: MVP-1-WH	TYPE:	WEIGHT:
SPEC.:4.3W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:163.4 lm



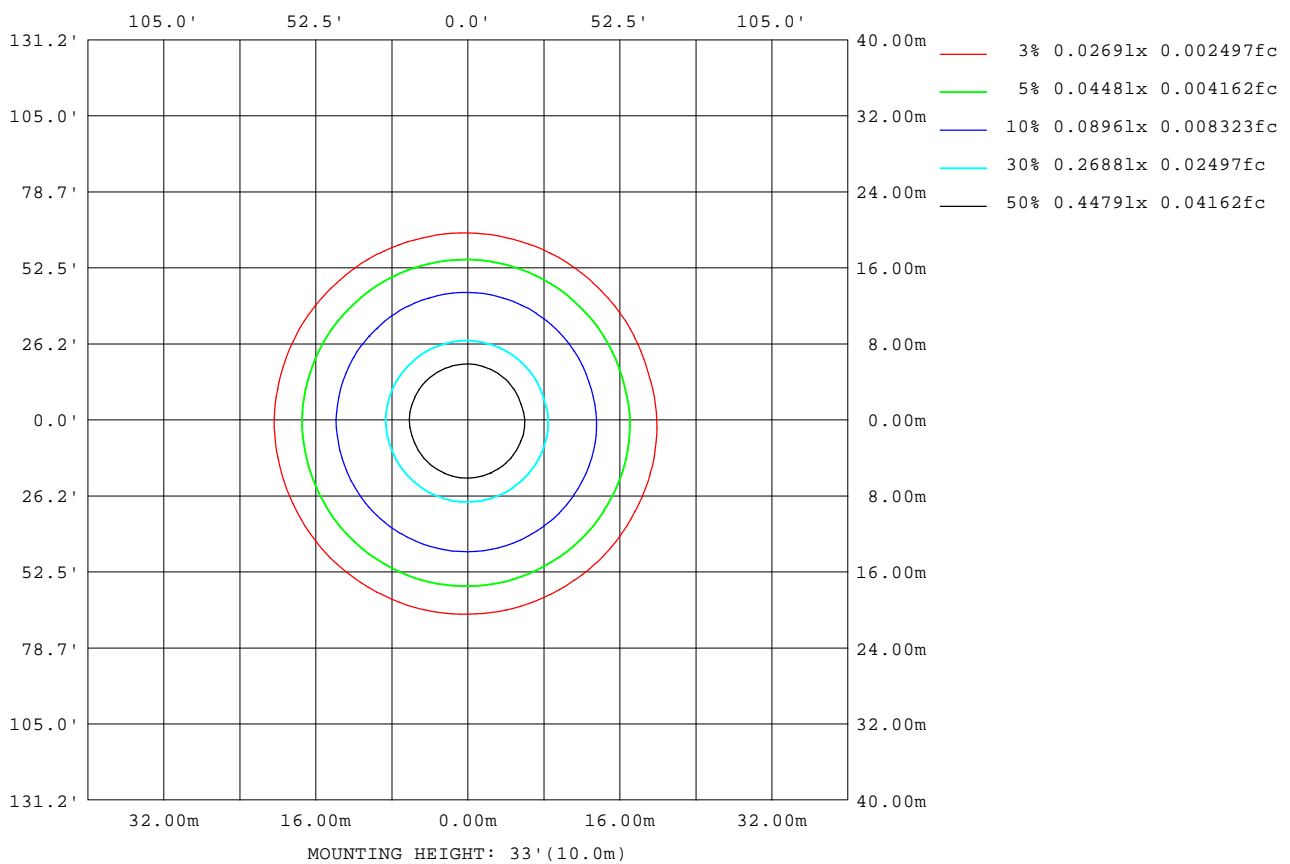
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.02V I:0.0366A P:4.3533W PF:0.9911 Freq:59.98Hz Lamp Flux:239.212x1 lm		
NAME: MVP-1-WH	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:120.02V I:0.0366A P:4.3533W PF:0.9911 Freq:59.98Hz Lamp Flux:239.212x1 lm		
NAME: MVP-1-WH	TYPE:	WEIGHT:
SPEC.:4.3W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

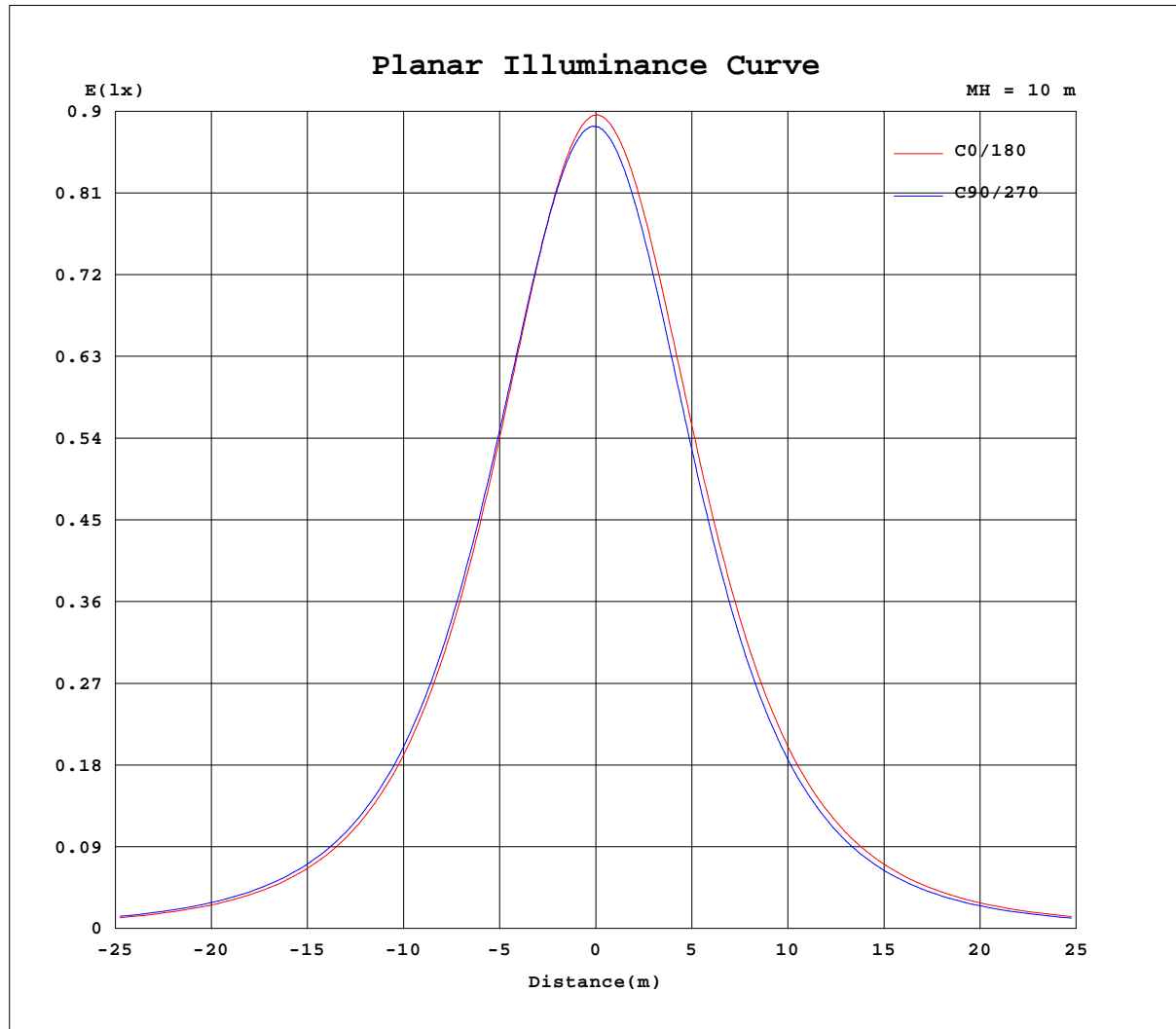
AvgL	cd/m2
L_0~180(65)av	134
L_0~180(75)av	121
L_0~180(85)av	22
L_90~270(65)av	134
L_90~270(75)av	121
L_90~270(85)av	107
L_45(65)av	134
L_45(75)av	121
L_45(85)av	105

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:120.02V I:0.0366A P:4.3533W PF:0.9911 Freq:59.98Hz Lamp Flux:239.212x1 lm																	
NAME: MVP-1-WH									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	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
5	87.8	87.9	88.0	88.1	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.2	88.1	88.1	87.9	87.8	87.8	87.7
10	86.2	86.4	86.5	86.7	86.8	87.0	87.0	87.1	87.2	87.2	87.2	87.2	87.0	86.7	86.6	86.3	86.1	86.0	85.9
15	83.7	83.9	84.1	84.3	84.5	84.8	84.9	85.1	85.1	85.2	85.2	85.1	84.9	84.5	84.3	83.8	83.5	83.3	83.1
20	80.3	80.6	80.7	81.1	81.3	81.8	81.9	82.2	82.3	82.4	82.3	82.2	81.8	81.3	81.0	80.5	80.2	79.8	79.6
25	76.2	76.4	76.7	77.1	77.5	77.9	78.2	78.5	78.5	78.7	78.5	78.4	77.9	77.3	77.0	76.3	76.1	75.6	75.4
30	71.3	71.7	72.0	72.5	72.8	73.5	73.7	74.1	74.0	74.2	74.0	73.9	73.4	72.6	72.3	71.6	71.2	70.7	70.5
35	65.8	66.3	66.7	67.3	67.7	68.4	68.6	69.0	68.9	69.1	68.8	68.8	68.1	67.4	67.0	66.3	65.9	65.3	65.0
40	59.8	60.5	60.9	61.6	62.0	62.7	63.0	63.4	63.3	63.4	63.1	63.0	62.3	61.6	61.3	60.4	60.0	59.4	59.1
45	53.5	54.3	54.6	55.4	55.8	56.6	56.8	57.2	57.1	57.3	57.0	56.9	56.1	55.4	55.0	54.2	53.8	53.1	52.8
50	47.0	47.7	48.2	48.9	49.3	50.1	50.4	50.8	50.7	50.8	50.5	50.4	49.7	48.9	48.5	47.7	47.3	46.6	46.3
55	40.3	41.1	41.5	42.3	42.7	43.5	43.7	44.1	44.0	44.2	43.8	43.7	43.0	42.2	41.8	41.0	40.6	39.9	39.6
60	33.6	34.4	34.8	35.6	36.0	36.7	36.9	37.4	37.3	37.4	37.1	36.9	36.2	35.5	35.1	34.3	33.9	33.2	32.9
65	27.0	27.8	28.2	29.0	29.3	30.0	30.3	30.7	30.6	30.7	30.3	30.2	29.5	28.8	28.4	27.7	27.3	26.6	26.4
70	20.6	21.3	21.7	22.5	22.8	23.5	23.7	24.1	24.0	24.1	23.8	23.6	22.9	22.2	21.9	21.2	20.9	20.2	20.0
75	14.5	15.2	15.5	16.3	16.5	17.2	17.4	17.8	17.7	17.9	17.4	17.4	16.7	16.0	15.7	15.0	14.8	14.1	14.0
80	8.77	9.39	9.66	10.4	10.7	11.3	11.4	11.9	11.7	11.9	11.5	11.4	10.8	10.2	9.92	9.24	9.05	8.51	8.37
85	0.56	4.08	4.40	4.97	5.28	5.78	5.97	6.29	6.26	6.32	6.05	5.89	1.35	4.88	4.61	4.12	3.88	3.49	3.32
90	0.02	0.02	0.01	0.01	0.04	0.03	0.04	0.05	0.07	0.09	0.07	0.17	0.10	0.01	0.00	0.00	0.00	0.00	0.00
95	0.04	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.00	0.01	0.00	0.01	0.01	0.01	0.01
100	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.04	0.03	0.04	0.04	0.04	0.05	0.05
105	0.11	0.10	0.09	0.09	0.08	0.08	0.08	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.08	0.08
110	0.15	0.14	0.13	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.11	0.11	0.11	0.12
115	0.19	0.18	0.17	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.15	0.15	0.14	0.13	0.13	0.13	0.14	0.14	0.15
120	0.23	0.21	0.20	0.18	0.19	0.18	0.18	0.17	0.17	0.17	0.18	0.18	0.17	0.17	0.16	0.16	0.16	0.17	0.18
125	0.26	0.24	0.23	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.21	0.20	0.19	0.18	0.19	0.18	0.19	0.20
130	0.27	0.25	0.25	0.24	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.23	0.21	0.20	0.20	0.20	0.21	0.22	0.22
135	0.28	0.26	0.26	0.26	0.25	0.26	0.25	0.25	0.24	0.24	0.24	0.24	0.22	0.21	0.20	0.21	0.22	0.23	0.23
140	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.25	0.24	0.24	0.22	0.21	0.20	0.21	0.22	0.24	0.25
145	0.28	0.26	0.26	0.27	0.28	0.29	0.29	0.28	0.27	0.25	0.24	0.23	0.22	0.20	0.19	0.21	0.22	0.23	0.25
150	0.26	0.25	0.26	0.26	0.29	0.30	0.29	0.28	0.27	0.24	0.23	0.23	0.21	0.19	0.19	0.19	0.22	0.23	0.25
155	0.25	0.25	0.24	0.25	0.26	0.28	0.28	0.26	0.24	0.22	0.21	0.22	0.19	0.17	0.18	0.17	0.19	0.21	0.23
160	0.23	0.24	0.22	0.22	0.24	0.25	0.24	0.23	0.22	0.19	0.19	0.21	0.17	0.17	0.16	0.15	0.17	0.18	0.19
165	0.21	0.22	0.21	0.21	0.22	0.23	0.22	0.21	0.20	0.19	0.18	0.19	0.17	0.16	0.15	0.16	0.17	0.18	0.18
170	0.22	0.22	0.23	0.22	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.20	0.18	0.17	0.17	0.16	0.16	0.17	0.18
175	0.21	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.19	0.18	0.18	0.18	0.18	0.19	0.18	0.18
180	0.21	0.21	0.22	0.23	0.22	0.22	0.22	0.21	0.22	0.23	0.22	0.21	0.21	0.21	0.22	0.22	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:120.02V I:0.0366A P:4.3533W PF:0.9911 Freq:59.98Hz Lamp Flux:239.212x1 lm		
NAME: MVP-1-WH	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	88.5	88.5	88.5	88.5	88.5														
5	87.6	87.6	87.6	87.6	87.7														
10	85.7	85.7	85.7	85.8	85.9														
15	82.9	83.0	83.0	83.1	83.3														
20	79.4	79.4	79.4	79.6	79.8														
25	75.1	75.1	75.1	75.4	75.5														
30	70.1	70.2	70.1	70.4	70.6														
35	64.6	64.7	64.6	64.9	65.0														
40	58.7	58.7	58.6	58.9	59.1														
45	52.3	52.4	52.2	52.6	52.8														
50	45.8	45.8	45.7	46.0	46.2														
55	39.2	39.2	39.0	39.3	39.6														
60	32.5	32.5	32.4	32.7	32.9														
65	25.9	26.0	25.8	26.1	26.3														
70	19.6	19.6	19.5	19.8	19.9														
75	13.5	13.6	13.4	13.8	13.8														
80	8.00	8.04	7.88	8.16	8.21														
85	3.04	3.03	2.92	3.11	3.18														
90	0.00	0.00	0.00	0.00	0.00														
95	0.02	0.01	0.01	0.01	0.01														
100	0.05	0.05	0.05	0.05	0.05														
105	0.08	0.08	0.09	0.08	0.08														
110	0.12	0.12	0.12	0.12	0.12														
115	0.15	0.15	0.15	0.15	0.16														
120	0.17	0.17	0.17	0.18	0.19														
125	0.19	0.19	0.20	0.21	0.21														
130	0.22	0.21	0.22	0.22	0.23														
135	0.24	0.23	0.22	0.22	0.23														
140	0.25	0.24	0.23	0.23	0.24														
145	0.25	0.23	0.22	0.22	0.22														
150	0.24	0.23	0.20	0.21	0.21														
155	0.22	0.20	0.18	0.20	0.21														
160	0.20	0.18	0.17	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	0.21	0.21	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: