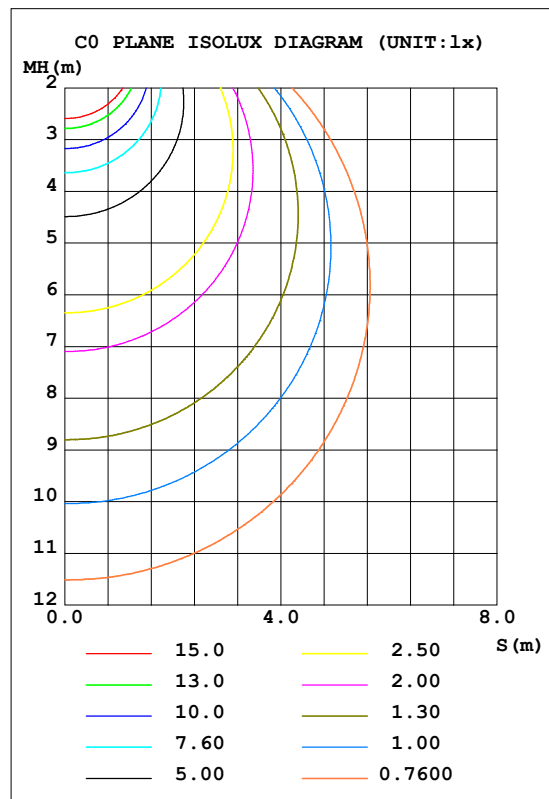
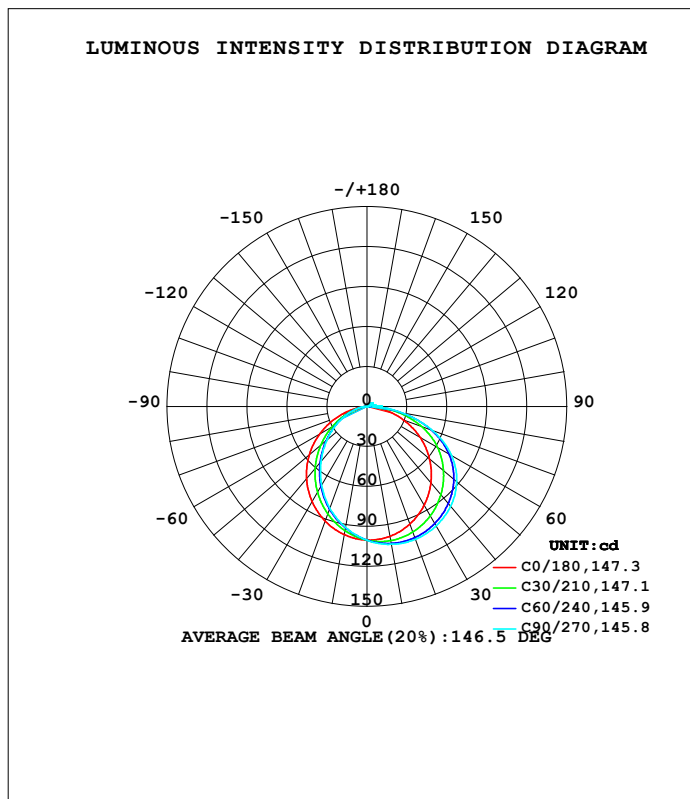


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.0475A P:5.5847W PF:0.9786 Freq:59.98Hz Lamp Flux:302.97x1 lm		
NAME: ASD-UCB-12D5CC-WH-3000K	TYPE:0	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MOD:ASD-UCB-12D5CC-WH-3000K		Imax (cd)	106.3	S/MH (C0/180)	1.23
NOMINAL POWER (W)	5	LOR (%)	100.0	S/MH (C90/270)	1.04
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	302.97	h UP, DN (C0-180)	1.7, 60.7
NOMINAL FLUX (lm)	302.97	CIE CLASS	DIRECT	h UP, DN (C180-360)	0.4, 37.2
LAMPS INSIDE	1	h up (%)	2.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	h down (%)	97.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 21 April 2021

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	98.99	103.5	105.0	102.4	97.69	93.54	92.28	94.44	0- 10	9.488	9.488	3.13,3.13
20	94.01	103.0	106.1	101.0	91.62	83.66	81.42	85.35	10- 20	27.18	36.67	12.1,12.1
30	85.76	98.94	103.6	96.08	82.49	71.24	68.21	73.61	20- 30	41.24	77.91	25.7,25.7
40	74.68	91.50	97.79	87.90	70.61	56.96	53.74	59.77	30- 40	49.94	127.8	42.2,42.2
50	61.36	81.14	87.91	77.08	56.58	41.85	39.31	44.71	40- 50	52.38	180.2	59.5,59.5
60	45.96	67.51	73.20	63.37	40.81	27.31	25.97	29.59	50- 60	48.38	228.6	75.5,75.5
70	28.85	49.13	52.00	45.14	23.94	14.60	14.54	16.05	60- 70	38.23	266.8	88.1,88.1
80	11.47	24.99	25.75	21.31	8.088	5.080	5.405	5.828	70- 80	22.97	289.8	95.7,95.7
90	0.3904	0.6765	5.955	0.3154	0.1185	0.1381	0.1623	0.1626	80- 90	6.733	296.5	97.9,97.9
100	0.3053	1.463	6.853	1.000	0.2886	0.3133	0.3557	0.3072	90-100	1.420	298.0	98.3,98.3
110	0.3964	1.865	1.546	2.183	0.3189	0.4602	0.5024	0.4745	100-110	1.092	299.1	98.7,98.7
120	0.5011	2.960	4.373	2.280	0.3762	0.4315	0.5183	0.4827	110-120	1.269	300.3	99.1,99.1
130	0.4997	1.896	4.046	1.314	0.3679	0.4319	0.5086	0.4121	120-130	1.247	301.6	99.5,99.5
140	0.4414	0.9912	2.482	0.5831	0.3294	0.3593	0.3427	0.3733	130-140	0.7456	302.3	99.8,99.8
150	0.3612	0.3245	1.567	0.3693	0.2834	0.3183	0.3914	0.3341	140-150	0.3884	302.7	99.9,99.9
160	0.3068	0.3906	0.3590	0.4197	0.2540	0.2491	0.2642	0.2755	150-160	0.1545	302.9	100,100
170	0.2229	0.3660	0.4716	0.3608	0.2148	0.1866	0.2196	0.2242	160-170	0.0883	302.9	100,100
180	0.2198	0.2265	0.2186	0.2296	0.2219	0.2269	0.2214	0.2283	170-180	0.0250	303.0	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:21 April 2021

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:120.04V I:0.0475A P:5.5847W PF:0.9786 Freq:59.98Hz Lamp Flux:302.97x1 lm										
NAME: ASD-UCB-12D5CC-WH-3000K					TYPE:0			WEIGHT:		
SPEC.:5W					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp					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	8.1	9.6	8.4	9.9	10.1	9.8	11.3	10.1	11.5	11.8
3H	9.6	11.0	10.0	11.3	11.6	11.8	13.2	12.2	13.5	13.8
4H	10.2	11.5	10.6	11.8	12.1	12.7	14.0	13.0	14.3	14.6
6H	10.6	11.8	11.0	12.2	12.5	13.4	14.6	13.7	14.9	15.3
8H	10.7	11.9	11.1	12.2	12.6	13.6	14.9	14.0	15.2	15.5
12H	10.7	11.9	11.1	12.2	12.6	13.8	15.0	14.2	15.3	15.7
4H 2H	9.2	10.6	9.6	10.8	11.2	10.4	11.8	10.8	12.0	12.4
3H	11.0	12.2	11.4	12.5	12.9	12.7	13.8	13.1	14.2	14.5
4H	11.7	12.8	12.1	13.2	13.5	13.7	14.8	14.1	15.1	15.5
6H	12.3	13.2	12.7	13.6	14.0	14.5	15.5	15.0	15.9	16.3
8H	12.4	13.3	12.9	13.7	14.1	14.9	15.8	15.3	16.2	16.6
12H	12.5	13.3	12.9	13.7	14.2	15.2	16.0	15.6	16.4	16.8
8H 4H	12.4	13.3	12.8	13.7	14.1	14.0	14.9	14.5	15.3	15.7
6H	13.2	13.9	13.6	14.3	14.8	15.1	15.8	15.5	16.2	16.7
8H	13.4	14.1	13.9	14.5	15.0	15.5	16.2	16.0	16.6	17.1
12H	13.6	14.2	14.1	14.6	15.2	15.9	16.5	16.4	16.9	17.5
12H 4H	12.5	13.3	12.9	13.7	14.2	14.0	14.9	14.5	15.3	15.7
6H	13.3	14.0	13.8	14.4	14.9	15.1	15.8	15.6	16.2	16.7
8H	13.7	14.2	14.2	14.7	15.3	15.6	16.2	16.2	16.7	17.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.6					+ 0.2 / - 0.4				

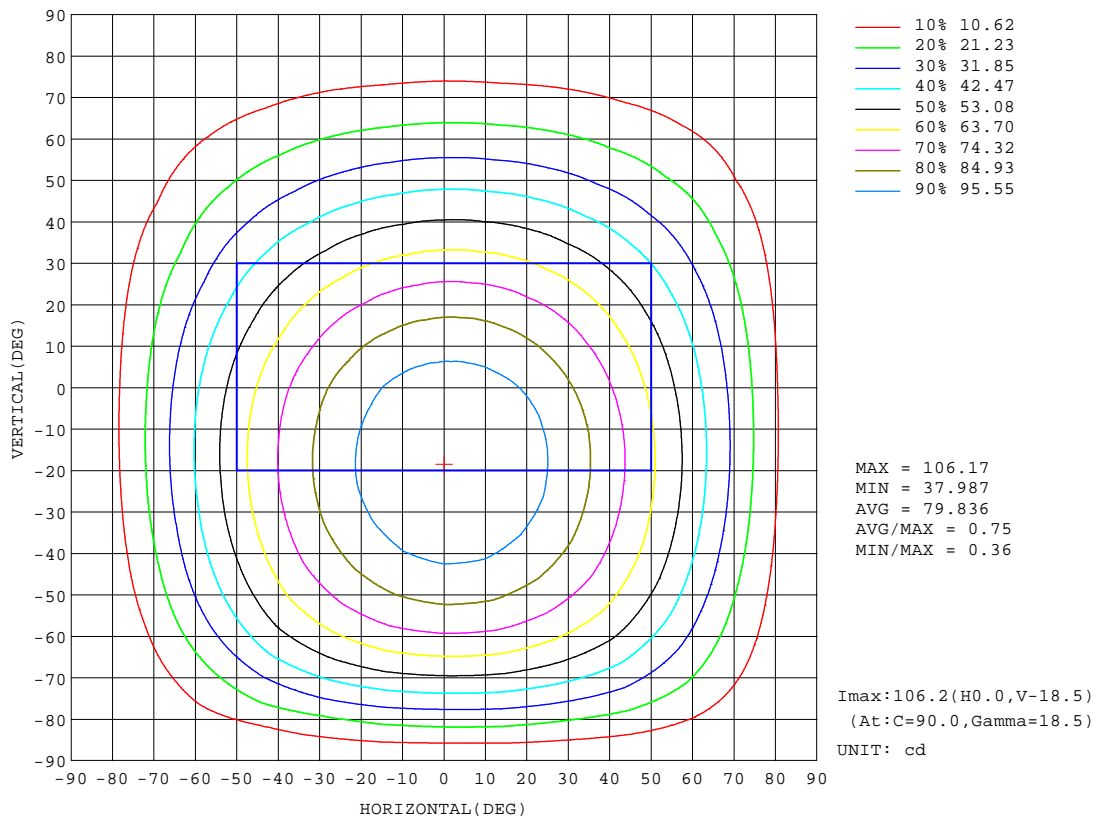
CIE Pub.117, 303.0 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -4.1)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:21 April 2021

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:120.04V I:0.0475A P:5.5847W PF:0.9786 Freq:59.98Hz Lamp Flux:302.97x1 lm		
NAME: ASD-UCB-12D5CC-WH-3000K	TYPE:0	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



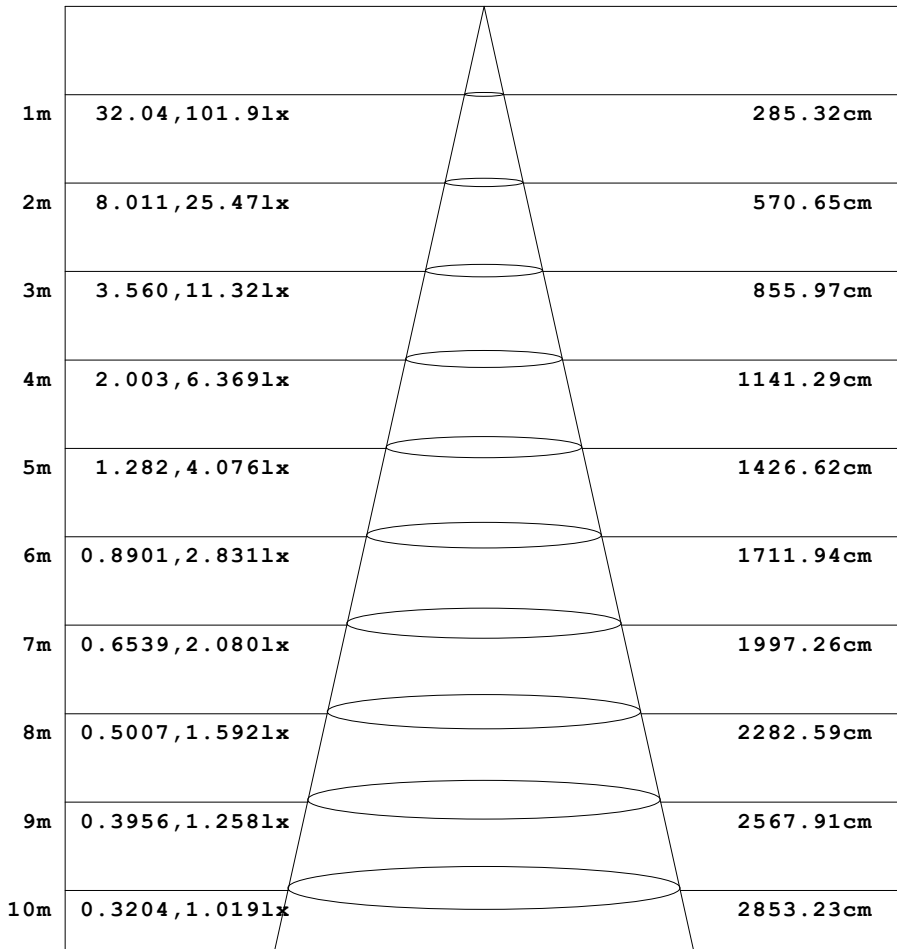
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:21 April 2021

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:120.04V I:0.0475A P:5.5847W PF:0.9786 Freq:59.98Hz Lamp Flux:302.97x1 lm		
NAME: ASD-UCB-12D5CC-WH-3000K	TYPE:0	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:205.3 lm



Height Eavg, Emax Angle:109.94deg Diameter

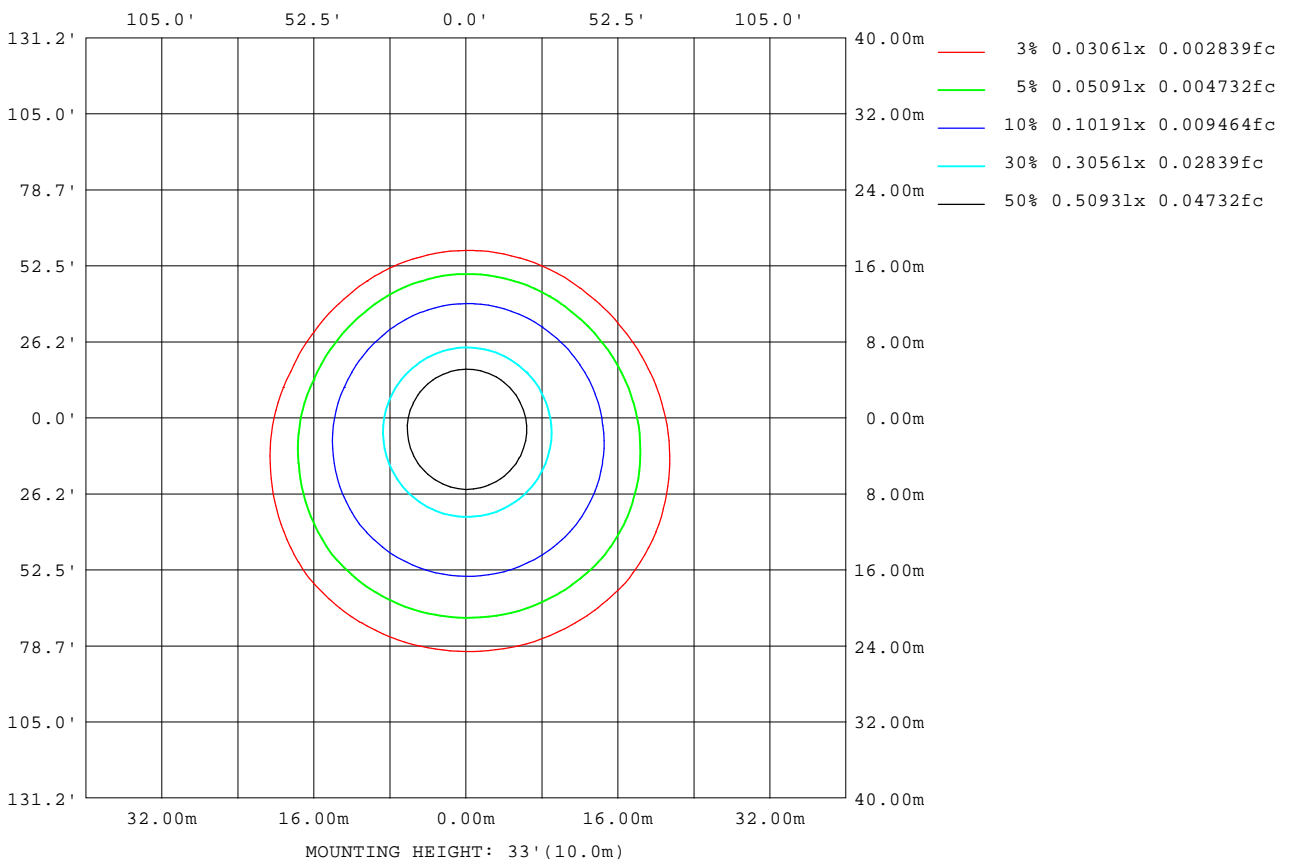
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:21 April 2021

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:120.04V I:0.0475A P:5.5847W PF:0.9786 Freq:59.98Hz Lamp Flux:302.97x1 lm		
NAME: ASD-UCB-12D5CC-WH-3000K	TYPE:0	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:21 April 2021

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:120.04V I:0.0475A P:5.5847W PF:0.9786 Freq:59.98Hz Lamp Flux:302.97x1 lm		
NAME: ASD-UCB-12D5CC-WH-3000K	TYPE:0	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

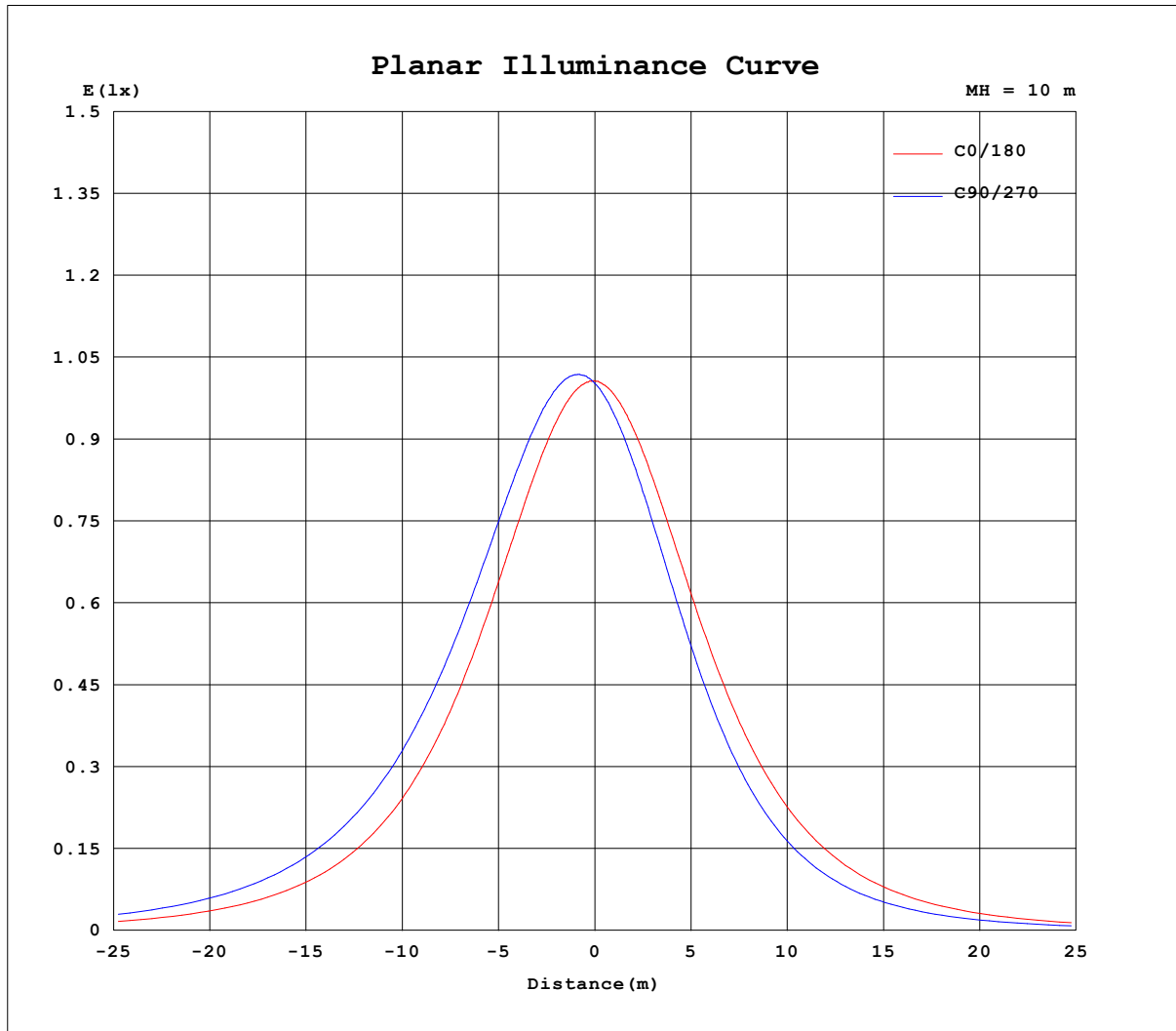
AvgL	cd/m2
L_0~180 (65) av	166
L_0~180 (75) av	138
L_0~180 (85) av	71
L_90~270 (65) av	197
L_90~270 (75) av	189
L_90~270 (85) av	177
L_45 (65) av	186
L_45 (75) av	175
L_45 (85) av	145

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:21 April 2021

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: 21 April 2021

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

Table with test parameters: Test:U:120.04V I:0.0475A P:5.5847W PF:0.9786 Freq:59.98Hz Lamp Flux:302.97x1 lm. Fields include NAME, TYPE, WEIGHT, SPEC, DIM, SERIAL No., MFR, SUR, and Shielding Angle.

Table--1 showing Luminous Intensity (cd) vs C (DEG) and g (DEG). Includes headers for C and g angles, and a grid of 18x18 data points.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:21 April 2021

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:120.04V I:0.0475A P:5.5847W PF:0.9786 Freq:59.98Hz Lamp Flux:302.97x1 lm		
NAME: ASD-UCB-12D5CC-WH-3000K	TYPE:0	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) g (DEG)	285	300	315	330	345															
0	100	100	100	100	100															
5	96.8	97.2	97.8	98.5	99.3															
10	92.6	93.4	94.4	95.8	97.4															
15	87.6	88.8	90.3	92.4	94.6															
20	81.9	83.4	85.3	88.0	91.0															
25	75.7	77.5	79.8	83.0	86.5															
30	68.9	70.9	73.6	77.3	81.4															
35	61.9	64.0	66.9	71.0	75.6															
40	54.5	56.7	59.8	64.2	69.2															
45	47.2	49.3	52.3	57.0	62.3															
50	40.0	41.9	44.7	49.3	55.0															
55	33.0	34.6	37.1	41.5	47.3															
60	26.4	27.7	29.6	33.5	39.2															
65	20.2	21.2	22.5	25.6	30.9															
70	14.6	15.3	16.1	18.3	22.6															
75	9.56	10.1	10.4	11.7	14.5															
80	5.41	5.65	5.83	6.36	7.63															
85	2.24	2.30	2.25	2.50	2.64															
90	0.16	0.17	0.16	0.20	0.35															
95	0.22	0.21	0.20	0.19	0.19															
100	0.35	0.32	0.31	0.33	0.39															
105	0.45	0.40	0.41	0.43	0.41															
110	0.49	0.47	0.47	0.49	0.40															
115	0.52	0.51	0.53	0.49	0.41															
120	0.55	0.44	0.48	0.49	0.43															
125	0.43	0.42	0.47	0.47	0.42															
130	0.50	0.40	0.41	0.44	0.41															
135	0.45	0.38	0.41	0.40	0.37															
140	0.35	0.38	0.37	0.38	0.37															
145	0.39	0.38	0.38	0.34	0.37															
150	0.37	0.39	0.33	0.35	0.33															
155	0.33	0.30	0.30	0.34	0.31															
160	0.27	0.26	0.28	0.28	0.29															
165	0.24	0.26	0.26	0.26	0.24															
170	0.22	0.22	0.22	0.23	0.23															
175	0.20	0.20	0.21	0.22	0.22															
180	0.22	0.22	0.23	0.22	0.22															

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:21 April 2021

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: