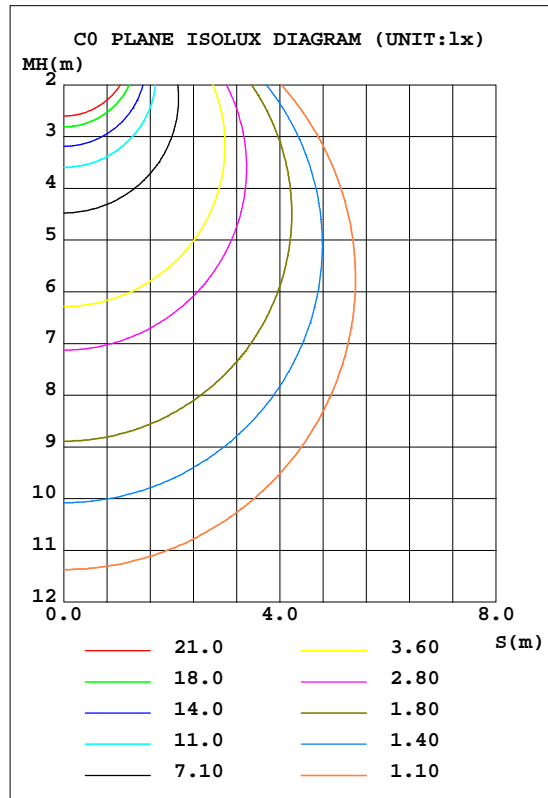
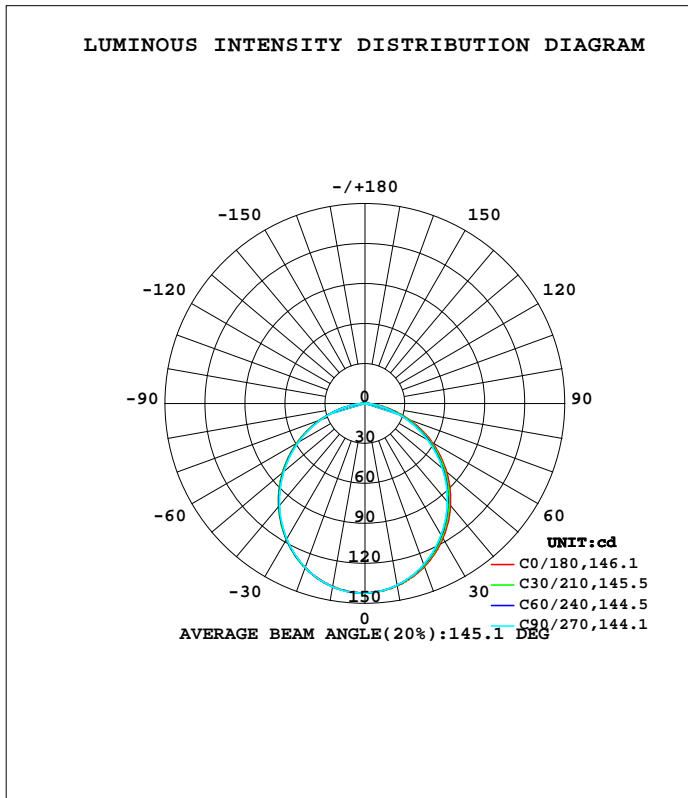


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.10V I:0.0448A P:5.2466W PF:0.9743 Freq:59.98Hz Lamp Flux:383.796x1 lm		
NAME: ASD-UCL-12D5CC-2700K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.15 lm/W			
MODEL	ASD-UCL-12D5CC-2700K	I <sub>max</sub> (cd)	142.4	S/MH(C0/180)	1.24
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	383.80	h UP, DN(C0-180)	0.3,49.0
NOMINAL FLUX(lm)	383.796	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.2,50.4
LAMPS INSIDE	1	h up(%)	0.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	99.5	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 March 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=1.1063]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	138.9	138.7	138.4	138.8	139.3	139.7	139.7	139.3	0- 10	13.43	13.43	3.5,3.5
20	130.3	129.4	128.7	129.7	131.0	131.2	131.0	130.8	10- 20	38.17	51.60	13.4,13.4
30	116.9	115.4	114.1	115.8	117.8	117.7	117.3	117.3	20- 30	57.09	108.7	28.3,28.3
40	99.82	97.78	96.25	98.33	100.9	100.4	99.75	99.82	30- 40	67.68	176.4	46,46
50	79.96	77.61	75.85	78.16	80.92	80.21	79.48	79.81	40- 50	68.89	245.3	63.9,63.9
60	58.10	55.73	53.95	56.12	58.85	57.95	57.38	57.81	50- 60	60.92	306.2	79.8,79.8
70	35.20	33.18	31.43	33.34	35.60	34.94	34.59	35.04	60- 70	45.10	351.3	91.5,91.5
80	13.79	12.38	10.88	12.34	14.05	13.67	13.64	13.94	70- 80	24.58	375.9	97.9,97.9
90	0.4219	0.4164	0.1198	0.3521	0.4133	0.4110	0.1372	0.4269	80- 90	5.871	381.7	99.5,99.5
100	0.2011	0.1852	0.1826	0.1860	0.1367	0.1766	0.1348	0.1805	90-100	0.2177	381.9	99.5,99.5
110	0.3326	0.3003	0.3028	0.3001	0.2496	0.2317	0.2412	0.2428	100-110	0.2297	382.2	99.6,99.6
120	0.4524	0.4060	0.3970	0.3986	0.3452	0.3091	0.3272	0.3204	110-120	0.3186	382.5	99.7,99.7
130	0.5040	0.4662	0.4643	0.4629	0.3847	0.3738	0.3786	0.3831	120-130	0.3572	382.8	99.8,99.8
140	0.4975	0.5163	0.4951	0.5114	0.3855	0.3865	0.4134	0.3910	130-140	0.3391	383.2	99.8,99.8
150	0.4744	0.5223	0.5358	0.5070	0.3532	0.3562	0.4249	0.3595	140-150	0.2795	383.5	99.9,99.9
160	0.4461	0.4408	0.4813	0.4274	0.3206	0.2956	0.3353	0.3111	150-160	0.1934	383.7	100,100
170	0.3976	0.3794	0.3605	0.3561	0.3296	0.2944	0.3107	0.3185	160-170	0.1021	383.8	100,100
180	0.4006	0.4124	0.4079	0.4103	0.4039	0.4116	0.4075	0.4137	170-180	0.0338	383.8	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:10 March 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=1.1063]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.10V I:0.0448A P:5.2466W PF:0.9743 Freq:59.98Hz Lamp Flux:383.796x1 lm										
NAME: ASD-UCL-12D5CC-2700K					TYPE:			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	7.8	9.3	8.1	9.5	9.7	7.5	9.0	7.8	9.2	9.4
3H	9.3	10.7	9.6	10.9	11.1	8.9	10.2	9.2	10.5	10.7
4H	9.8	11.1	10.2	11.4	11.7	9.3	10.6	9.7	10.9	11.2
6H	10.2	11.4	10.5	11.7	12.0	9.6	10.8	9.9	11.1	11.4
8H	10.3	11.5	10.7	11.8	12.1	9.7	10.9	10.0	11.1	11.4
12H	10.4	11.5	10.7	11.8	12.1	9.7	10.8	10.0	11.1	11.4
4H 2H	8.4	9.7	8.7	9.9	10.2	8.1	9.4	8.4	9.7	10.0
3H	10.0	11.1	10.3	11.4	11.7	9.6	10.8	10.0	11.1	11.4
4H	10.7	11.7	11.0	12.0	12.4	10.2	11.3	10.6	11.6	11.9
6H	11.1	12.1	11.6	12.4	12.8	10.6	11.5	11.0	11.9	12.3
8H	11.3	12.2	11.7	12.5	12.9	10.7	11.5	11.1	11.9	12.3
12H	11.4	12.2	11.8	12.6	13.0	10.7	11.5	11.1	11.9	12.3
8H 4H	10.8	11.7	11.3	12.1	12.5	10.4	11.3	10.9	11.7	12.1
6H	11.5	12.2	11.9	12.6	13.0	10.9	11.7	11.4	12.1	12.5
8H	11.7	12.3	12.2	12.8	13.2	11.1	11.7	11.6	12.2	12.6
12H	11.8	12.4	12.3	12.8	13.3	11.1	11.7	11.6	12.1	12.6
12H 4H	10.8	11.6	11.3	12.0	12.4	10.5	11.2	10.9	11.6	12.1
6H	11.5	12.1	12.0	12.6	13.0	11.0	11.6	11.4	12.0	12.5
8H	11.7	12.3	12.2	12.7	13.2	11.1	11.7	11.6	12.1	12.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

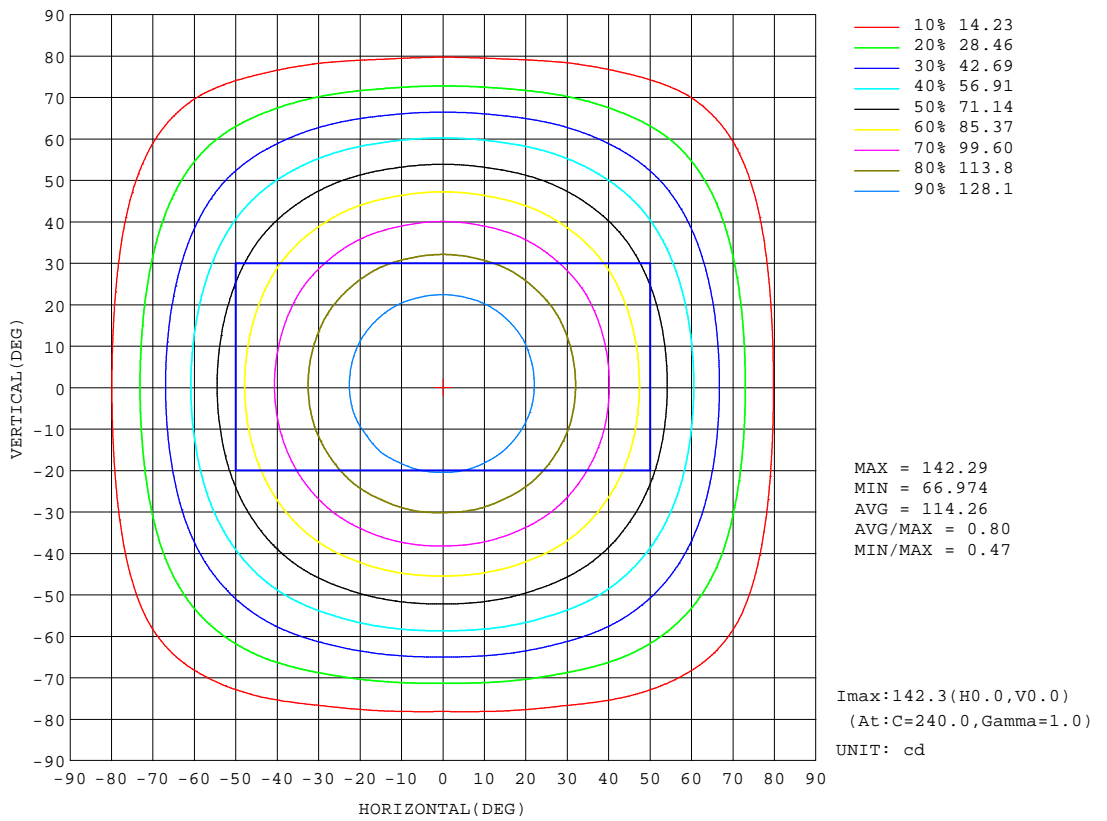
CIE Pub.117, 383.8 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.3)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 March 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=1.1063]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.10V I:0.0448A P:5.2466W PF:0.9743 Freq:59.98Hz Lamp Flux:383.796x1 lm		
NAME: ASD-UCL-12D5CC-2700K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



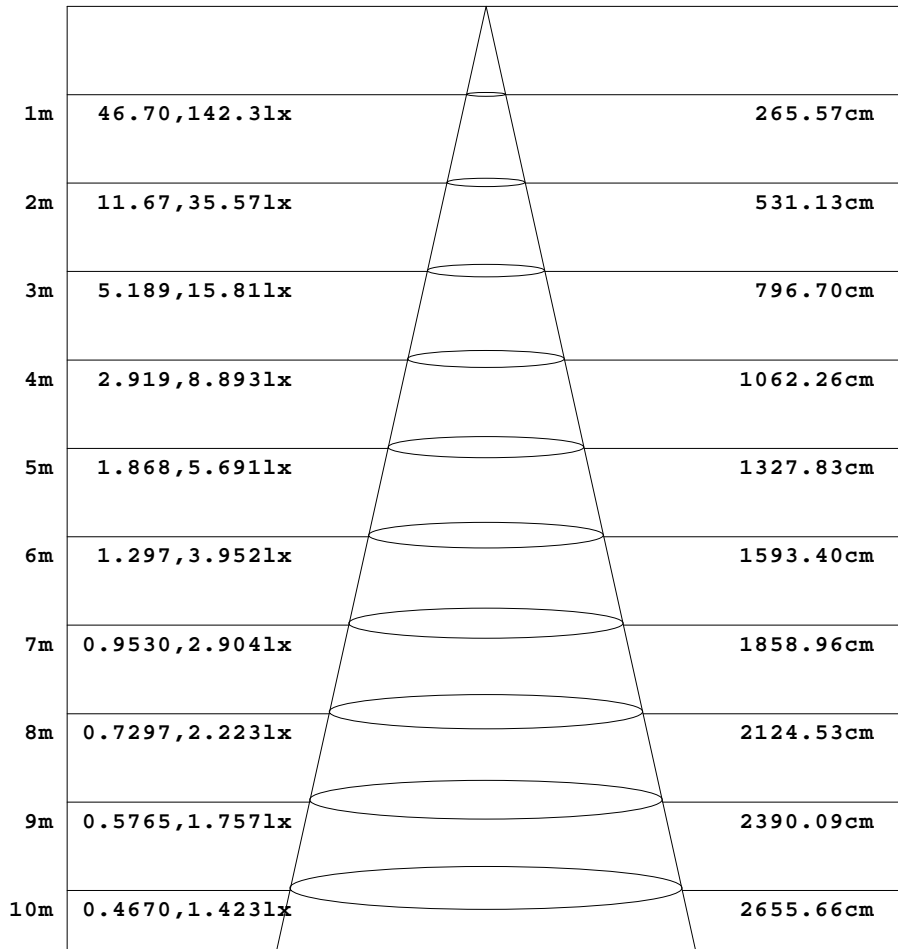
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 March 2021

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=1.1063]  
 Remarks:

AAI Figure

Test:U:120.10V I:0.0448A P:5.2466W PF:0.9743 Freq:59.98Hz Lamp Flux:383.796x1 lm		
NAME: ASD-UCL-12D5CC-2700K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:267.9 lm



Height                      Eavg, Emax                      Angle:106.03deg                      Diameter

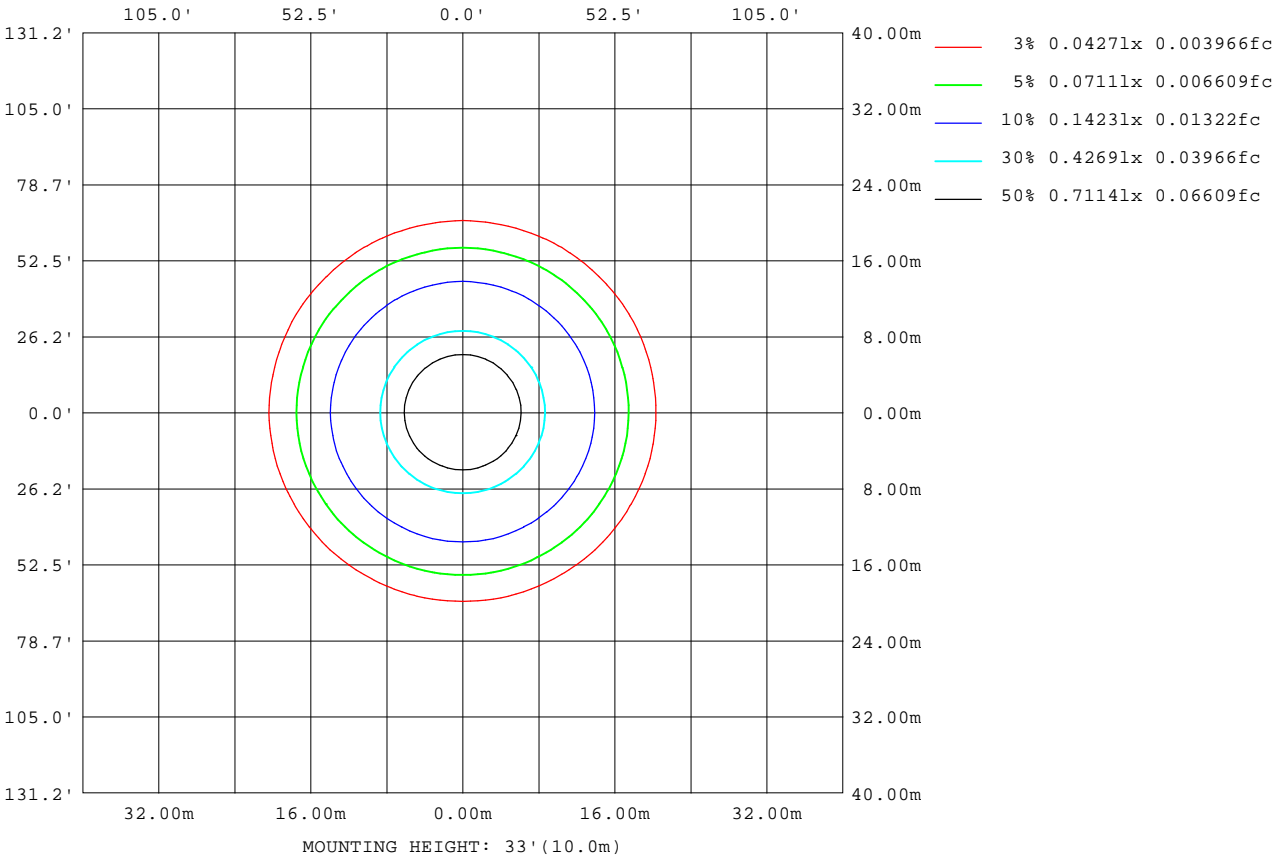
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 March 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=1.1063]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:120.10V I:0.0448A P:5.2466W PF:0.9743 Freq:59.98Hz Lamp Flux:383.796x1 lm		
NAME: ASD-UCL-12D5CC-2700K	TYPE:	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:10 March 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=1.1063]**  
**Remarks:**

LED Avg.L Report

Test:U:120.10V I:0.0448A P:5.2466W PF:0.9743 Freq:59.98Hz Lamp Flux:383.796x1 lm		
NAME: ASD-UCL-12D5CC-2700K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

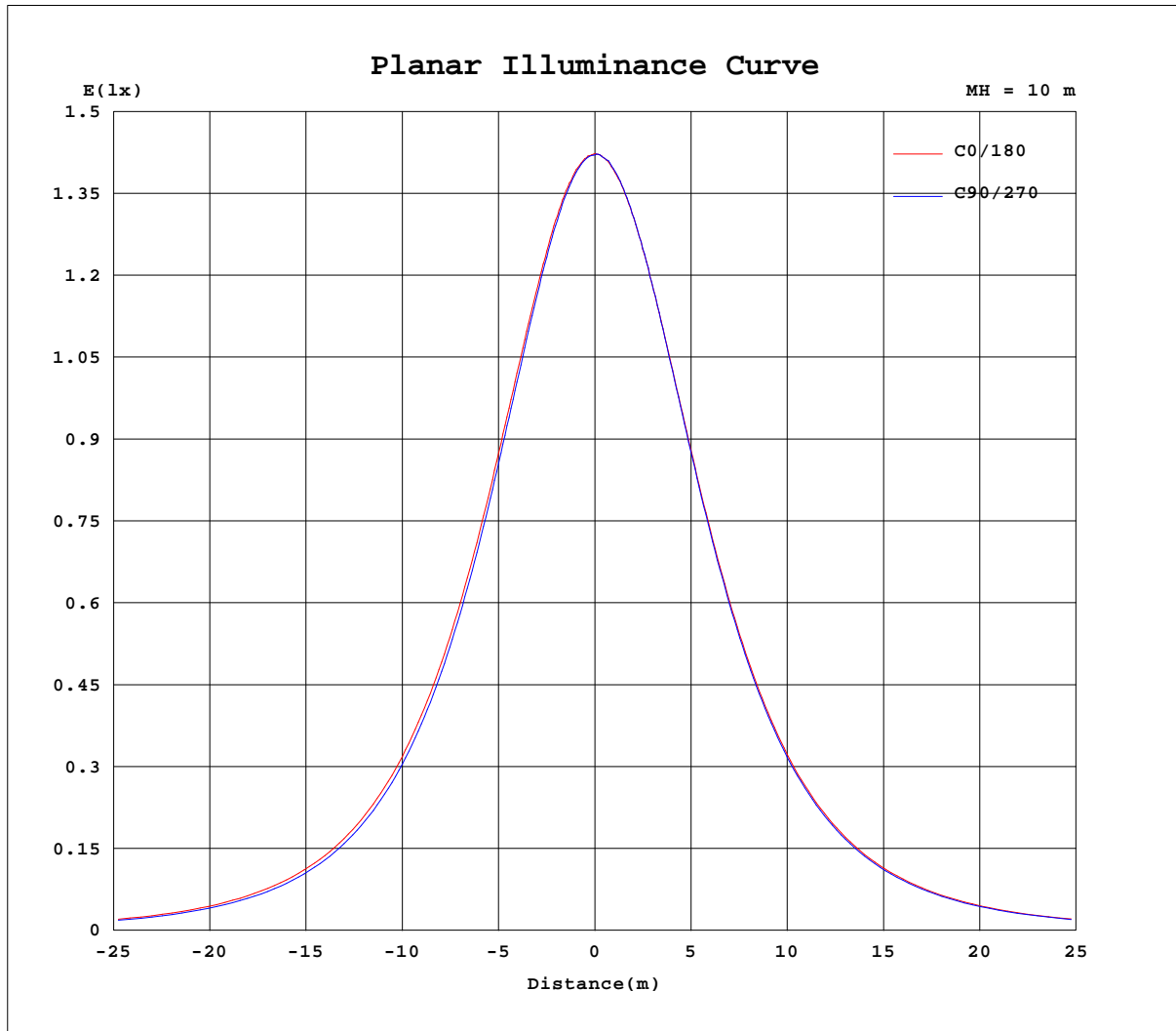
AvgL	cd/m2
L_0~180(65)av	222
L_0~180(75)av	187
L_0~180(85)av	129
L_90~270(65)av	210
L_90~270(75)av	171
L_90~270(85)av	92
L_45(65)av	215
L_45(75)av	179
L_45(85)av	109

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 March 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=1.1063]  
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 10 March 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=1.1063]  
 Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:0.0448A P:5.2466W PF:0.9743 Freq:59.98Hz Lamp Flux:383.796x1 lm		
NAME: ASD-UCL-12D5CC-2700K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	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	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142	142
5	141	141	141	141	141	141	141	141	141	141	141	141	141	142	142	142	142	142	142
10	139	139	139	139	138	138	138	138	139	139	139	139	139	140	140	140	140	140	140
15	135	135	135	135	134	134	134	135	134	135	135	135	136	136	136	136	136	136	136
20	130	130	130	129	129	129	129	129	129	130	130	131	131	131	131	131	131	131	131
25	124	124	123	123	122	122	122	122	123	123	124	125	125	125	125	125	125	125	125
30	117	117	116	115	115	114	114	115	115	116	116	118	118	118	118	118	118	117	117
35	109	108	108	107	106	106	106	106	106	108	108	109	110	110	110	109	109	109	109
40	99.8	99.5	98.3	97.8	96.7	96.5	96.3	96.6	97.1	98.3	99.2	100	101	101	101	100	100	99.6	99.8
45	90.2	89.8	88.6	88.0	86.9	86.6	86.3	86.8	87.3	88.5	89.4	90.6	91.2	91.1	91.2	90.6	90.5	89.8	89.9
50	80.0	79.6	78.3	77.6	76.5	76.3	75.9	76.4	76.8	78.2	79.0	80.3	80.9	80.8	80.8	80.2	80.0	79.4	79.5
55	69.2	68.8	67.7	66.9	65.8	65.4	65.0	65.6	66.0	67.2	68.2	69.5	70.1	70.0	69.9	69.3	69.2	68.5	68.7
60	58.1	57.7	56.5	55.7	54.6	54.3	53.9	54.4	54.8	56.1	57.0	58.2	58.8	58.7	58.7	58.0	57.8	57.3	57.4
65	46.7	46.3	45.2	44.4	43.4	43.1	42.7	43.2	43.5	44.7	45.5	46.7	47.3	47.1	47.2	46.5	46.4	45.8	46.0
70	35.2	34.9	33.8	33.2	32.2	31.9	31.4	31.9	32.2	33.3	34.0	35.1	35.6	35.5	35.6	34.9	34.9	34.4	34.6
75	24.0	23.9	22.8	22.4	21.3	21.1	20.6	21.1	21.3	22.4	22.9	23.9	24.3	24.2	24.4	23.8	23.9	23.4	23.7
80	13.8	13.8	12.8	12.4	11.4	11.3	10.9	11.2	11.4	12.3	12.8	13.7	14.1	13.9	14.2	13.7	13.9	13.3	13.6
85	5.66	5.45	4.39	3.99	3.51	3.37	3.08	3.31	3.46	4.08	4.69	5.38	5.59	5.57	5.66	5.31	5.20	4.87	4.95
90	0.42	0.38	0.48	0.42	0.31	0.19	0.12	0.22	0.28	0.35	0.47	0.47	0.41	0.53	0.48	0.41	0.30	0.20	0.14
95	0.22	0.15	0.19	0.14	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.09	0.12	0.13	0.21	0.18	0.16	0.12
100	0.20	0.20	0.19	0.19	0.19	0.19	0.18	0.18	0.19	0.19	0.19	0.20	0.14	0.14	0.14	0.18	0.14	0.13	0.13
105	0.27	0.25	0.25	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.25	0.20	0.19	0.19	0.19	0.16	0.17	0.17
110	0.33	0.32	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.31	0.31	0.25	0.23	0.23	0.23	0.23	0.23	0.24
115	0.39	0.38	0.37	0.36	0.35	0.35	0.35	0.34	0.35	0.35	0.37	0.36	0.30	0.28	0.27	0.28	0.27	0.28	0.29
120	0.45	0.44	0.42	0.41	0.40	0.39	0.40	0.40	0.40	0.40	0.41	0.42	0.35	0.33	0.32	0.31	0.31	0.32	0.33
125	0.49	0.47	0.46	0.44	0.43	0.44	0.44	0.44	0.44	0.44	0.45	0.45	0.37	0.35	0.34	0.34	0.34	0.34	0.34
130	0.50	0.49	0.49	0.47	0.46	0.46	0.46	0.46	0.47	0.46	0.48	0.47	0.38	0.37	0.36	0.37	0.37	0.38	0.38
135	0.51	0.50	0.51	0.49	0.48	0.49	0.49	0.49	0.48	0.49	0.49	0.48	0.39	0.37	0.37	0.38	0.39	0.39	0.41
140	0.50	0.49	0.51	0.52	0.50	0.49	0.50	0.50	0.51	0.51	0.49	0.47	0.39	0.37	0.36	0.39	0.41	0.41	0.41
145	0.49	0.48	0.50	0.52	0.52	0.52	0.51	0.51	0.52	0.52	0.48	0.47	0.37	0.36	0.35	0.38	0.40	0.41	0.43
150	0.47	0.46	0.48	0.52	0.53	0.54	0.54	0.52	0.52	0.51	0.47	0.45	0.35	0.33	0.33	0.36	0.39	0.41	0.42
155	0.47	0.45	0.46	0.49	0.53	0.54	0.53	0.52	0.50	0.48	0.45	0.44	0.34	0.32	0.33	0.32	0.34	0.38	0.40
160	0.45	0.44	0.42	0.44	0.48	0.49	0.48	0.48	0.46	0.43	0.41	0.43	0.32	0.32	0.30	0.30	0.32	0.34	0.34
165	0.40	0.41	0.40	0.40	0.41	0.42	0.41	0.42	0.40	0.38	0.38	0.39	0.31	0.30	0.29	0.29	0.31	0.32	0.31
170	0.40	0.40	0.40	0.38	0.37	0.36	0.36	0.36	0.36	0.36	0.37	0.38	0.33	0.32	0.30	0.29	0.30	0.30	0.31
175	0.38	0.39	0.40	0.39	0.38	0.38	0.38	0.38	0.38	0.37	0.35	0.36	0.34	0.34	0.32	0.33	0.34	0.34	0.34
180	0.40	0.40	0.40	0.41	0.41	0.40	0.41	0.40	0.40	0.41	0.41	0.39	0.40	0.40	0.40	0.41	0.41	0.40	0.41

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: MEDIUM

Temperature:25.3DEG

Operators:

Test Date:10 March 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=1.1063]

Remarks:

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:120.10V I:0.0448A P:5.2466W PF:0.9743 Freq:59.98Hz Lamp Flux:383.796x1 lm		
NAME: ASD-UCL-12D5CC-2700K	TYPE:	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	142	142	142	142	142															
5	142	142	142	141	141															
10	139	139	139	140	139															
15	136	136	136	136	136															
20	131	131	131	131	131															
25	125	125	125	125	124															
30	117	117	117	118	117															
35	109	109	109	109	109															
40	99.6	100.0	99.8	100	100															
45	89.8	90.2	90.2	90.6	90.4															
50	79.3	79.7	79.8	80.4	80.2															
55	68.5	69.0	69.1	69.6	69.5															
60	57.3	57.7	57.8	58.5	58.4															
65	45.9	46.4	46.5	47.0	46.9															
70	34.5	35.0	35.0	35.6	35.5															
75	23.5	24.1	24.0	24.5	24.2															
80	13.5	14.1	13.9	14.4	14.1															
85	5.06	5.48	5.61	5.94	5.82															
90	0.24	0.34	0.43	0.49	0.53															
95	0.18	0.22	0.21	0.19	0.22															
100	0.13	0.17	0.18	0.14	0.15															
105	0.17	0.19	0.20	0.19	0.20															
110	0.24	0.23	0.24	0.23	0.25															
115	0.29	0.28	0.28	0.29	0.30															
120	0.33	0.31	0.32	0.33	0.35															
125	0.34	0.35	0.35	0.36	0.37															
130	0.38	0.38	0.38	0.38	0.39															
135	0.40	0.39	0.39	0.38	0.39															
140	0.42	0.41	0.39	0.38	0.39															
145	0.43	0.41	0.38	0.37	0.37															
150	0.42	0.39	0.36	0.35	0.36															
155	0.39	0.35	0.33	0.34	0.35															
160	0.34	0.32	0.31	0.32	0.34															
165	0.31	0.31	0.31	0.31	0.32															
170	0.31	0.31	0.32	0.33	0.33															
175	0.33	0.33	0.35	0.36	0.36															
180	0.40	0.40	0.41	0.41	0.39															

<p>C Range: 0 - 360DEG          C Interval: 15.0DEG          Test Speed: MEDIUM          Temperature:25.3DEG          Operators:          Test Date:10 March 2021</p>	<p>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=1.1063]          Remarks:</p>
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