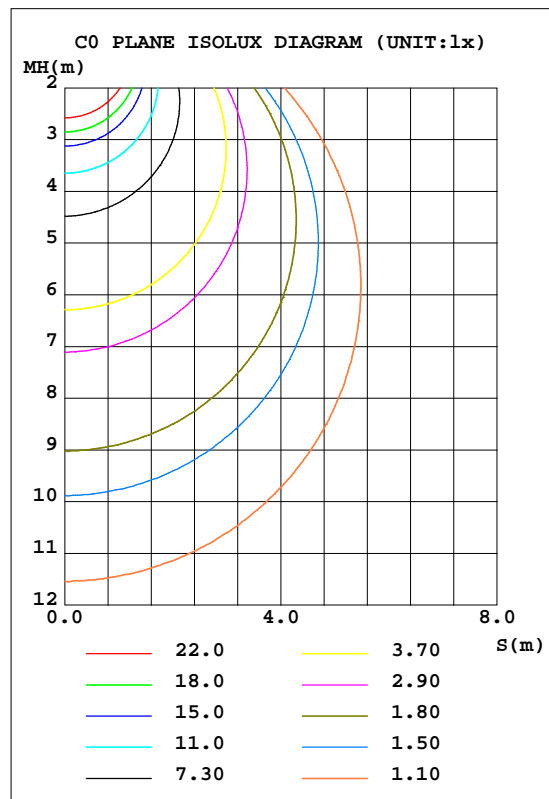
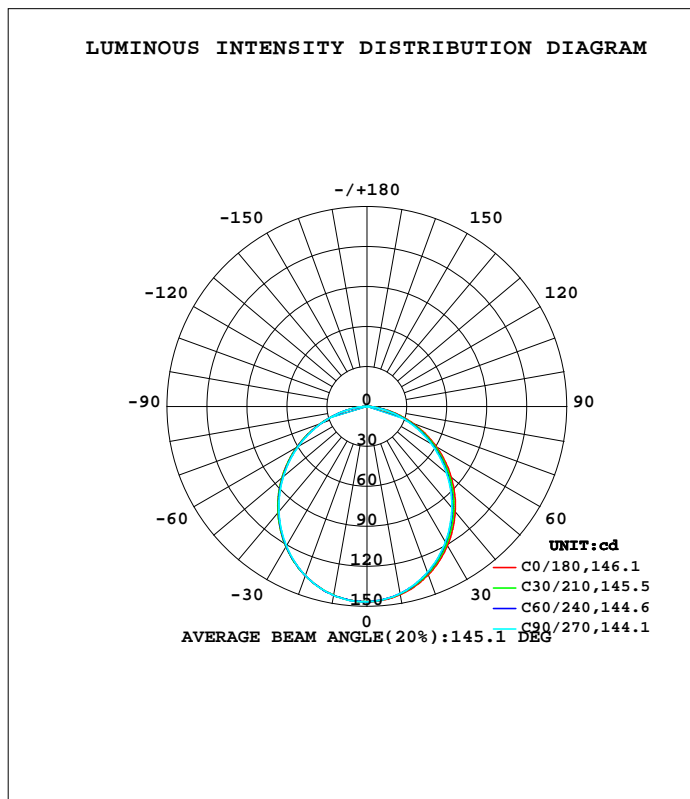


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.10V I:0.0451A P:5.2788W PF:0.9752 Freq:59.98Hz Lamp Flux:395.6x1 lm		
NAME: ASD-UCL-12D5CC-3000K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.94 lm/W			
MODEL	ASD-UCL-12D5CC-3000K	Imax(cd)	146.9	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)	395.60	h UP, DN(C0-180)	0.3,49.0
NOMINAL FLUX(lm)	395.6	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.2,50.5
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	143.5	142.8	142.6	142.9	143.9	143.9	143.9	143.5	0- 10	13.83	13.83	3.5,3.5
20	134.5	133.3	132.5	133.5	135.2	135.2	135.0	134.8	10- 20	39.33	53.16	13.4,13.4
30	120.8	118.9	117.6	119.2	121.6	121.3	120.8	120.9	20- 30	58.83	112.0	28.3,28.3
40	103.0	100.7	99.04	101.2	104.1	103.4	102.8	103.1	30- 40	69.75	181.7	45.9,45.9
50	82.65	80.03	78.15	80.34	83.41	82.65	82.00	82.35	40- 50	71.01	252.8	63.9,63.9
60	60.02	57.43	55.53	57.69	60.64	59.85	59.28	59.74	50- 60	62.80	315.6	79.8,79.8
70	36.39	34.22	32.37	34.22	36.72	36.06	35.76	36.20	60- 70	46.50	362.1	91.5,91.5
80	14.28	12.75	11.11	12.65	14.48	14.16	14.14	14.42	70- 80	25.35	387.4	97.9,97.9
90	0.4365	0.4256	0.1205	0.3590	0.4249	0.4168	0.1389	0.4382	80- 90	6.056	393.5	99.5,99.5
100	0.2099	0.1931	0.1912	0.1929	0.1415	0.1836	0.1379	0.1770	90-100	0.2238	393.7	99.5,99.5
110	0.3439	0.3126	0.3134	0.3067	0.2616	0.2342	0.2490	0.2531	100-110	0.2374	393.9	99.6,99.6
120	0.4645	0.4179	0.4095	0.4142	0.3585	0.3175	0.3390	0.3329	110-120	0.3291	394.3	99.7,99.7
130	0.5192	0.4787	0.4797	0.4791	0.4028	0.3836	0.3952	0.3921	120-130	0.3686	394.6	99.8,99.8
140	0.5164	0.5275	0.5131	0.5256	0.4020	0.3978	0.4299	0.4020	130-140	0.3498	395.0	99.8,99.8
150	0.4879	0.5379	0.5570	0.5213	0.3679	0.3651	0.4410	0.3700	140-150	0.2885	395.3	99.9,99.9
160	0.4536	0.4588	0.4956	0.4407	0.3352	0.3046	0.3516	0.3210	150-160	0.1995	395.5	100,100
170	0.4130	0.3892	0.3759	0.3676	0.3376	0.3023	0.3182	0.3272	160-170	0.1053	395.6	100,100
180	0.4153	0.4218	0.4145	0.4194	0.4123	0.4199	0.4179	0.4240	170-180	0.0349	395.6	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:0.0451A P:5.2788W PF:0.9752 Freq:59.98Hz Lamp Flux:395.6x1 lm										
NAME: ASD-UCL-12D5CC-3000K					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	7.9	9.4	8.2	9.6	9.9	7.6	9.1	7.9	9.3	9.5
3H	9.4	10.8	9.7	11.0	11.3	9.0	10.3	9.3	10.6	10.8
4H	9.9	11.2	10.3	11.5	11.8	9.4	10.7	9.8	11.0	11.3
6H	10.3	11.5	10.6	11.8	12.1	9.7	10.9	10.0	11.2	11.5
8H	10.4	11.6	10.8	11.9	12.2	9.8	10.9	10.1	11.2	11.5
12H	10.5	11.6	10.8	11.9	12.2	9.8	10.9	10.1	11.2	11.5
4H 2H	8.5	9.8	8.8	10.0	10.3	8.2	9.5	8.5	9.8	10.1
3H	10.1	11.2	10.4	11.5	11.9	9.7	10.9	10.1	11.2	11.5
4H	10.8	11.8	11.1	12.1	12.5	10.3	11.4	10.7	11.7	12.0
6H	11.3	12.2	11.7	12.5	12.9	10.7	11.6	11.1	12.0	12.3
8H	11.4	12.3	11.8	12.6	13.0	10.8	11.6	11.2	12.0	12.4
12H	11.5	12.3	11.9	12.7	13.1	10.8	11.6	11.2	12.0	12.4
8H 4H	11.0	11.8	11.4	12.2	12.6	10.5	11.4	11.0	11.8	12.2
6H	11.6	12.3	12.0	12.7	13.1	11.0	11.8	11.5	12.2	12.6
8H	11.8	12.4	12.3	12.9	13.3	11.2	11.8	11.6	12.2	12.7
12H	12.0	12.5	12.4	13.0	13.4	11.2	11.8	11.7	12.2	12.7
12H 4H	10.9	11.7	11.4	12.1	12.5	10.6	11.3	11.0	11.7	12.2
6H	11.6	12.2	12.1	12.7	13.1	11.1	11.7	11.5	12.1	12.6
8H	11.8	12.4	12.3	12.8	13.3	11.2	11.8	11.7	12.2	12.7
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				

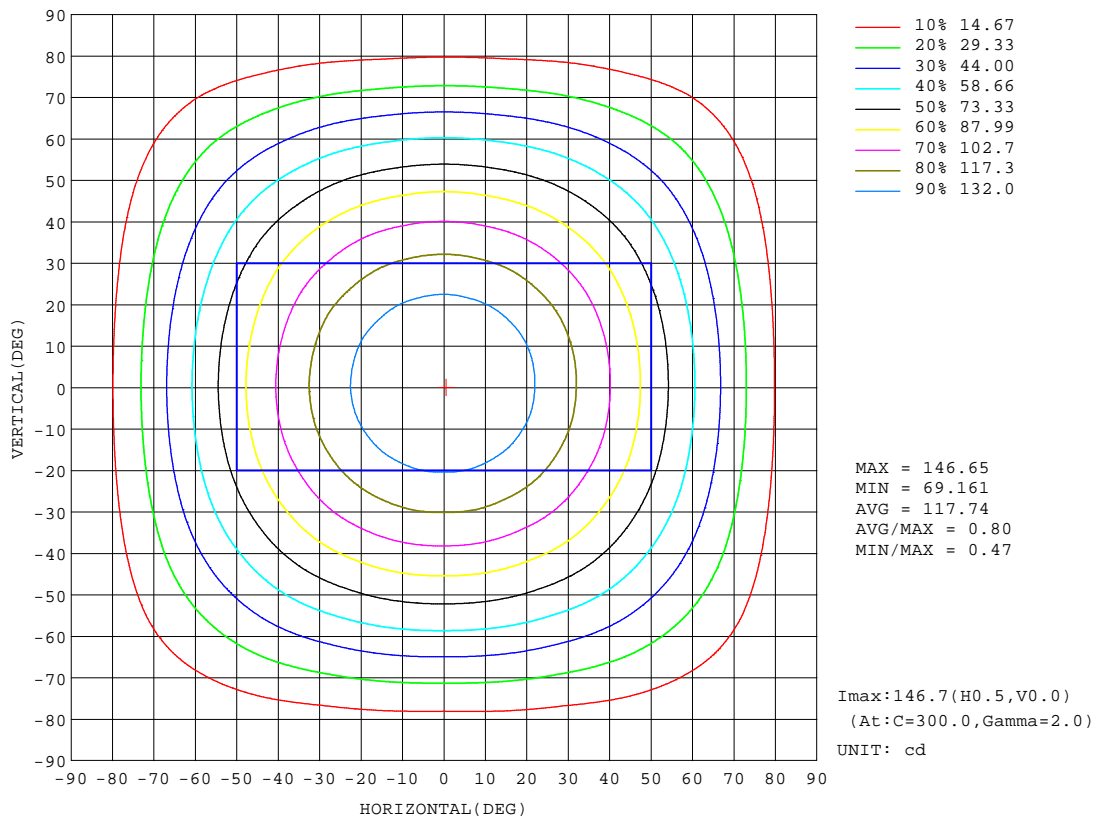
CIE Pub.117, 395.6 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.2)

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:0.0451A P:5.2788W PF:0.9752 Freq:59.98Hz Lamp Flux:395.6x1 lm		
NAME: ASD-UCL-12D5CC-3000K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



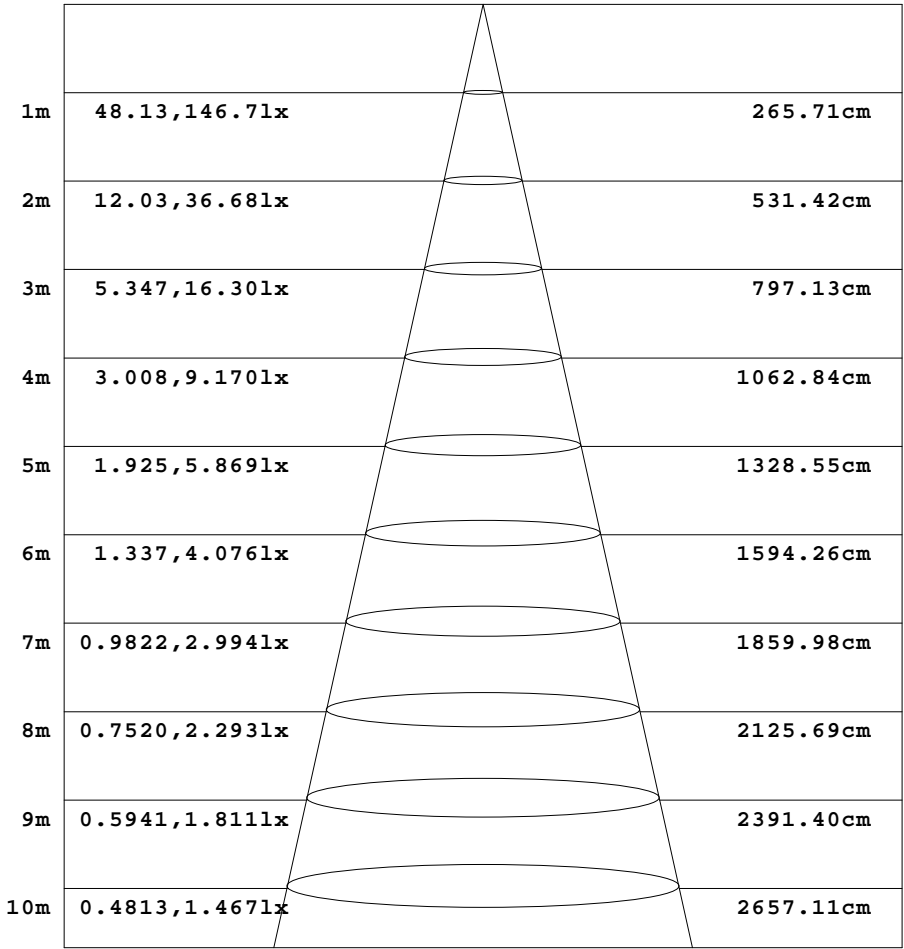
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:10 March 2021

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:0.0451A P:5.2788W PF:0.9752 Freq:59.98Hz Lamp Flux:395.6x1 lm		
NAME: ASD-UCL-12D5CC-3000K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:276.1 lm



Height Eavg, Emax Angle:106.06deg Diameter

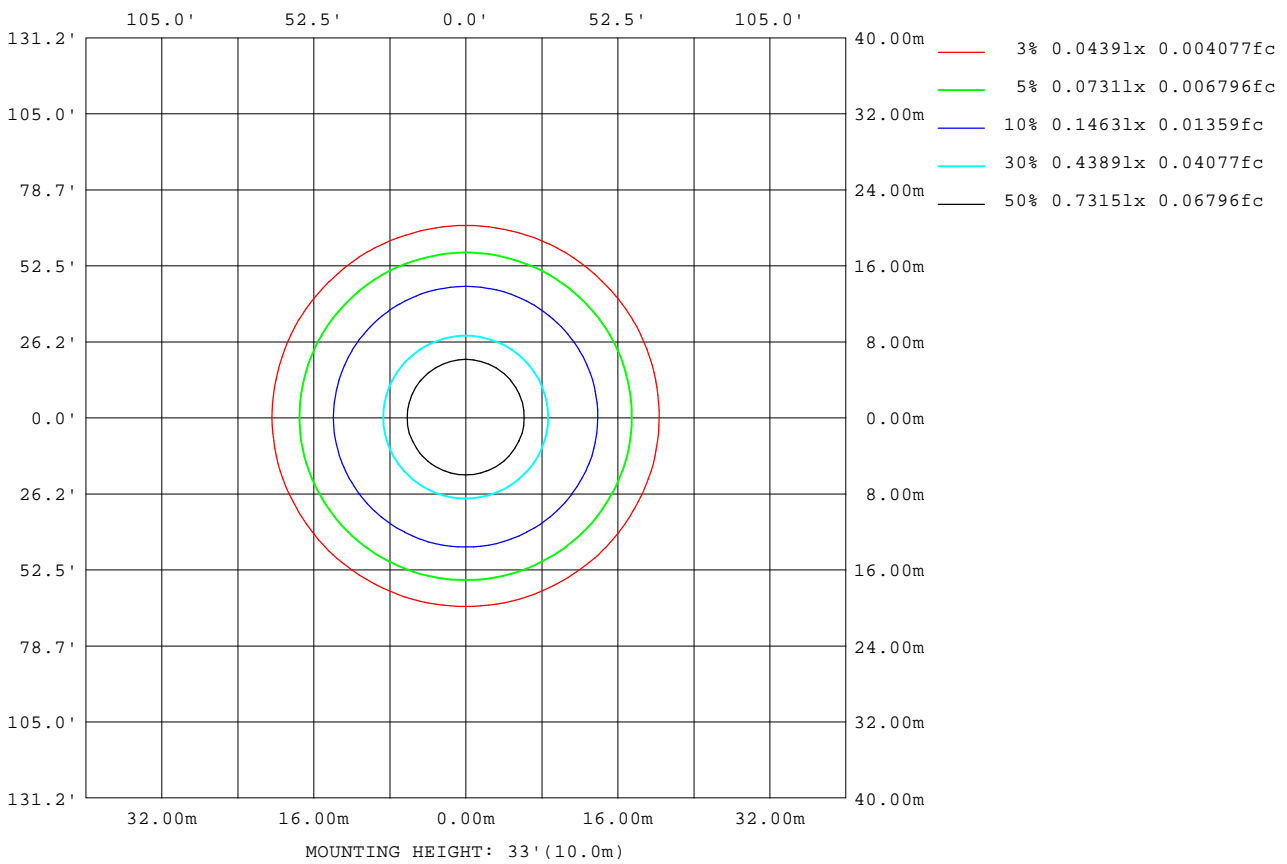
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.0451A P:5.2788W PF:0.9752 Freq:59.98Hz Lamp Flux:395.6x1 lm		
NAME: ASD-UCL-12D5CC-3000K	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:0.0451A P:5.2788W PF:0.9752 Freq:59.98Hz Lamp Flux:395.6x1 lm		
NAME: ASD-UCL-12D5CC-3000K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

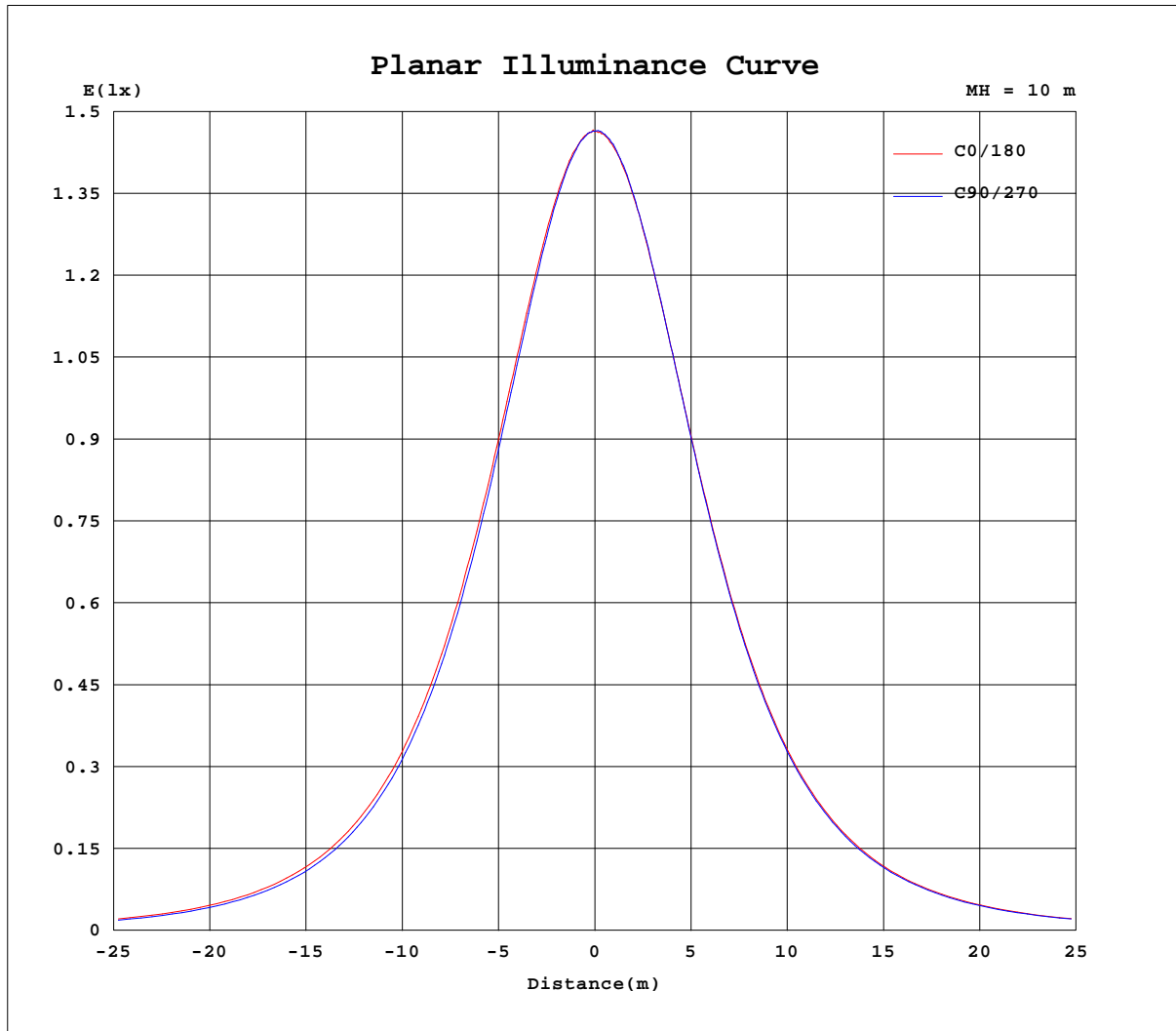
AvgL	cd/m2
L_0~180(65)av	230
L_0~180(75)av	193
L_0~180(85)av	133
L_90~270(65)av	216
L_90~270(75)av	176
L_90~270(85)av	96
L_45(65)av	222
L_45(75)av	184
L_45(85)av	113

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:0.0451A P:5.2788W PF:0.9752 Freq:59.98Hz Lamp Flux:395.6x1 lm		
NAME: ASD-UCL-12D5CC-3000K	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	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146
5	146	146	145	146	145	145	145	145	146	145	146	146	146	146	146	146	146	146	146
10	143	143	143	143	142	143	143	143	143	143	143	143	144	143	144	144	144	144	144
15	140	139	139	139	138	138	138	138	139	139	139	139	140	140	140	140	140	140	140
20	134	134	134	133	133	133	132	133	133	133	134	135	135	135	135	135	135	135	135
25	128	128	127	127	126	126	126	126	127	127	128	128	129	129	129	129	129	129	129
30	121	120	119	119	118	118	118	118	118	119	120	121	122	121	122	121	121	121	121
35	112	112	111	110	109	109	109	109	110	111	111	112	113	113	113	113	113	112	112
40	103	103	101	101	99.7	99.5	99.0	99.5	100	101	102	103	104	104	104	103	103	103	103
45	93.1	92.5	91.3	90.8	89.5	89.2	88.9	89.3	90.0	91.0	92.1	93.1	94.0	93.9	93.8	93.3	93.1	92.7	92.8
50	82.6	82.1	80.7	80.0	78.8	78.6	78.2	78.6	79.2	80.3	81.3	82.7	83.4	83.2	83.3	82.6	82.5	81.9	82.0
55	71.5	70.9	69.6	68.9	67.7	67.4	67.0	67.4	68.1	69.2	70.3	71.5	72.2	72.1	72.1	71.5	71.3	70.7	70.8
60	60.0	59.5	58.2	57.4	56.3	56.0	55.5	56.0	56.5	57.7	58.6	59.9	60.6	60.5	60.5	59.8	59.7	59.1	59.3
65	48.2	47.8	46.5	45.8	44.6	44.4	43.9	44.4	44.9	45.9	46.9	48.0	48.8	48.5	48.6	48.0	47.8	47.3	47.6
70	36.4	36.0	34.9	34.2	33.1	32.8	32.4	32.8	33.2	34.2	35.0	36.1	36.7	36.6	36.7	36.1	36.0	35.6	35.8
75	24.8	24.6	23.5	23.1	21.9	21.8	21.1	21.7	21.9	23.1	23.5	24.6	25.1	24.9	25.1	24.6	24.7	24.2	24.5
80	14.3	14.2	13.2	12.8	11.7	11.6	11.1	11.4	11.6	12.7	13.2	14.1	14.5	14.3	14.6	14.2	14.3	13.8	14.1
85	5.86	5.60	4.51	4.13	3.60	3.44	3.17	3.40	3.54	4.17	4.80	5.52	5.76	5.76	5.88	5.49	5.41	5.08	5.18
90	0.44	0.38	0.49	0.43	0.32	0.20	0.12	0.23	0.28	0.36	0.48	0.48	0.42	0.53	0.49	0.42	0.31	0.20	0.14
95	0.21	0.15	0.19	0.14	0.14	0.14	0.14	0.13	0.14	0.15	0.15	0.15	0.09	0.12	0.14	0.21	0.18	0.17	0.13
100	0.21	0.20	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.20	0.14	0.14	0.15	0.18	0.14	0.13	0.14
105	0.27	0.26	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.20	0.19	0.19	0.20	0.17	0.17	0.18
110	0.34	0.33	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.26	0.24	0.23	0.23	0.24	0.24	0.25
115	0.41	0.39	0.38	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.38	0.38	0.31	0.29	0.28	0.29	0.28	0.28	0.30
120	0.46	0.45	0.43	0.42	0.42	0.41	0.41	0.40	0.41	0.41	0.43	0.43	0.36	0.34	0.33	0.32	0.32	0.33	0.34
125	0.50	0.48	0.47	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.47	0.47	0.39	0.37	0.35	0.35	0.35	0.35	0.36
130	0.52	0.51	0.50	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.49	0.49	0.40	0.38	0.37	0.38	0.38	0.39	0.40
135	0.52	0.51	0.51	0.51	0.49	0.51	0.51	0.50	0.49	0.51	0.50	0.50	0.40	0.38	0.38	0.40	0.40	0.41	0.42
140	0.52	0.50	0.52	0.53	0.52	0.51	0.51	0.51	0.52	0.53	0.51	0.49	0.40	0.38	0.38	0.40	0.42	0.43	0.43
145	0.50	0.49	0.52	0.53	0.54	0.54	0.54	0.53	0.54	0.53	0.50	0.48	0.38	0.37	0.37	0.39	0.41	0.43	0.45
150	0.49	0.47	0.50	0.54	0.54	0.56	0.56	0.54	0.54	0.52	0.49	0.47	0.37	0.35	0.34	0.37	0.40	0.42	0.44
155	0.48	0.47	0.47	0.51	0.54	0.56	0.55	0.53	0.52	0.49	0.46	0.46	0.35	0.33	0.34	0.33	0.35	0.39	0.42
160	0.45	0.46	0.43	0.46	0.50	0.51	0.50	0.49	0.47	0.44	0.43	0.45	0.34	0.32	0.31	0.30	0.32	0.34	0.35
165	0.42	0.42	0.41	0.41	0.42	0.43	0.43	0.43	0.41	0.39	0.39	0.41	0.32	0.31	0.29	0.30	0.31	0.33	0.32
170	0.41	0.41	0.42	0.39	0.37	0.38	0.38	0.36	0.37	0.37	0.38	0.39	0.34	0.33	0.31	0.30	0.31	0.32	0.32
175	0.40	0.40	0.41	0.40	0.39	0.39	0.39	0.39	0.40	0.38	0.37	0.37	0.35	0.34	0.33	0.34	0.35	0.35	0.34
180	0.42	0.41	0.41	0.42	0.42	0.41	0.41	0.41	0.41	0.42	0.41	0.40	0.41	0.41	0.41	0.42	0.42	0.41	0.42

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:0.0451A P:5.2788W PF:0.9752 Freq:59.98Hz Lamp Flux:395.6x1 lm		
NAME: ASD-UCL-12D5CC-3000K	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	146	146	146	146	146														
5	146	146	146	146	145														
10	144	144	143	144	143														
15	140	140	140	140	140														
20	135	135	135	135	135														
25	128	129	128	129	128														
30	121	121	121	121	121														
35	112	113	112	113	112														
40	103	103	103	104	103														
45	92.6	93.2	93.0	93.6	93.2														
50	81.8	82.5	82.3	82.9	82.7														
55	70.7	71.4	71.3	72.0	71.6														
60	59.1	59.7	59.7	60.4	60.2														
65	47.4	48.0	48.0	48.6	48.4														
70	35.7	36.2	36.2	36.8	36.6														
75	24.3	24.9	24.8	25.4	25.0														
80	14.0	14.6	14.4	14.9	14.5														
85	5.27	5.71	5.82	6.18	6.01														
90	0.25	0.35	0.44	0.50	0.54														
95	0.19	0.23	0.22	0.19	0.22														
100	0.13	0.18	0.18	0.15	0.15														
105	0.18	0.19	0.21	0.19	0.20														
110	0.25	0.24	0.25	0.25	0.26														
115	0.29	0.29	0.29	0.30	0.31														
120	0.33	0.32	0.33	0.35	0.36														
125	0.35	0.36	0.37	0.37	0.39														
130	0.39	0.39	0.39	0.39	0.40														
135	0.41	0.40	0.40	0.40	0.40														
140	0.44	0.43	0.40	0.39	0.39														
145	0.44	0.42	0.40	0.37	0.38														
150	0.44	0.41	0.37	0.36	0.36														
155	0.40	0.36	0.34	0.35	0.36														
160	0.35	0.33	0.32	0.33	0.34														
165	0.32	0.32	0.32	0.32	0.33														
170	0.32	0.32	0.33	0.34	0.34														
175	0.34	0.34	0.36	0.37	0.36														
180	0.41	0.40	0.42	0.42	0.40														

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: