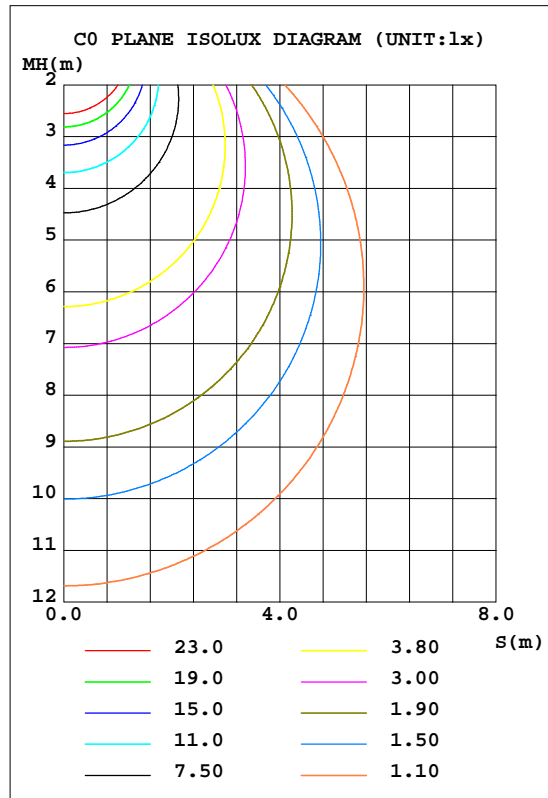
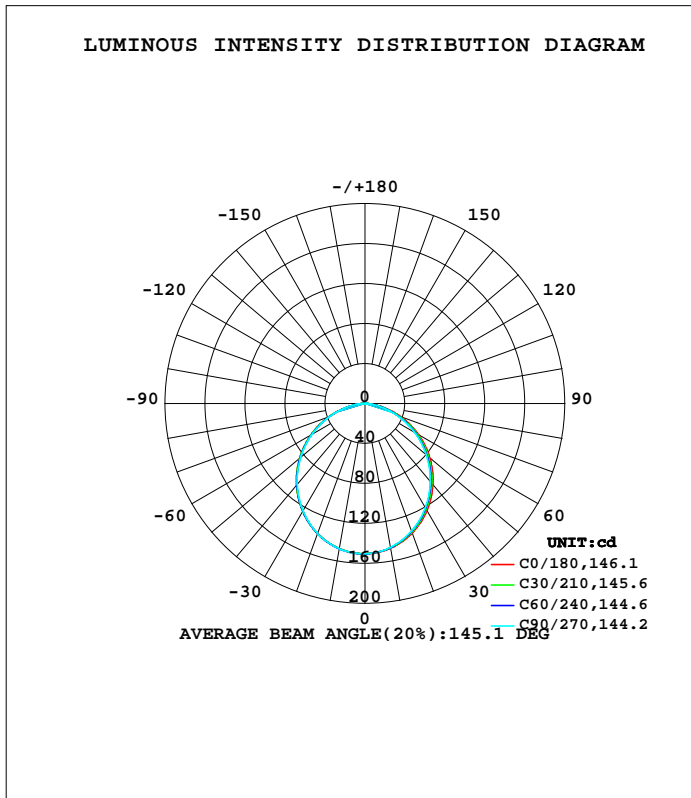


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.10V I:0.0448A P:5.2476W PF:0.9744 Freq:59.98Hz Lamp Flux:406.24x1 lm		
NAME: ASD-UCL-12D5CC-4000K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ASD-UCL-12D5CC-4000K	Imax(cd)	150.6	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)	406.24	h UP, DN(C0-180)	0.3,49.0
NOMINAL FLUX(lm)	406.24	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	147.1	146.6	146.4	146.8	147.4	147.5	147.6	147.4	0- 10	14.20	14.20	3.49,3.49
20	138.0	136.8	136.1	137.2	138.7	138.6	138.6	138.4	10- 20	40.37	54.57	13.4,13.4
30	123.8	122.1	120.7	122.5	124.6	124.4	124.1	124.1	20- 30	60.39	115.0	28.3,28.3
40	105.9	103.5	101.8	103.9	106.6	106.1	105.5	105.9	30- 40	71.62	186.6	45.9,45.9
50	84.80	82.19	80.26	82.62	85.53	84.79	84.22	84.65	40- 50	72.93	259.5	63.9,63.9
60	61.61	59.03	57.08	59.39	62.24	61.42	60.93	61.37	50- 60	64.51	324.0	79.8,79.8
70	37.33	35.15	33.28	35.22	37.69	37.03	36.77	37.22	60- 70	47.77	371.8	91.5,91.5
80	14.65	13.11	11.37	13.00	14.87	14.50	14.55	14.86	70- 80	26.04	397.8	97.9,97.9
90	0.4236	0.4257	0.1247	0.3702	0.4384	0.4193	0.1419	0.4367	80- 90	6.218	404.1	99.5,99.5
100	0.2141	0.1949	0.1949	0.1967	0.1467	0.1854	0.1390	0.1815	90-100	0.2261	404.3	99.5,99.5
110	0.3440	0.3206	0.3181	0.3136	0.2635	0.2404	0.2555	0.2597	100-110	0.2426	404.5	99.6,99.6
120	0.4707	0.4278	0.4206	0.4258	0.3653	0.3265	0.3475	0.3415	110-120	0.3368	404.9	99.7,99.7
130	0.5253	0.4930	0.4925	0.4934	0.4084	0.3940	0.4024	0.4032	120-130	0.3780	405.2	99.8,99.8
140	0.5238	0.5419	0.5290	0.5463	0.4058	0.4056	0.4415	0.4135	130-140	0.3587	405.6	99.8,99.8
150	0.4980	0.5507	0.5672	0.5383	0.3791	0.3756	0.4497	0.3804	140-150	0.2958	405.9	99.9,99.9
160	0.4652	0.4738	0.5096	0.4533	0.3427	0.3149	0.3551	0.3260	150-160	0.2046	406.1	100,100
170	0.4187	0.4016	0.3816	0.3806	0.3491	0.3080	0.3250	0.3354	160-170	0.1079	406.2	100,100
180	0.4206	0.4308	0.4247	0.4250	0.4198	0.4297	0.4225	0.4276	170-180	0.0357	406.2	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: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:5.2476W PF:0.9744 Freq:59.98Hz Lamp Flux:406.24x1 lm										
NAME: ASD-UCL-12D5CC-4000K					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	8.0	9.5	8.3	9.7	9.9	7.7	9.2	8.0	9.4	9.6
3H	9.5	10.9	9.8	11.1	11.3	9.1	10.4	9.4	10.7	10.9
4H	10.0	11.3	10.4	11.6	11.9	9.5	10.8	9.8	11.1	11.4
6H	10.4	11.6	10.7	11.9	12.2	9.8	11.0	10.1	11.3	11.6
8H	10.5	11.7	10.9	12.0	12.3	9.8	11.0	10.2	11.3	11.6
12H	10.6	11.7	10.9	12.0	12.3	9.8	11.0	10.2	11.3	11.6
4H 2H	8.6	9.9	8.9	10.1	10.4	8.3	9.6	8.6	9.9	10.2
3H	10.2	11.3	10.5	11.6	11.9	9.8	11.0	10.2	11.3	11.6
4H	10.9	11.9	11.2	12.2	12.6	10.4	11.5	10.8	11.8	12.1
6H	11.3	12.3	11.8	12.6	13.0	10.8	11.7	11.2	12.1	12.4
8H	11.5	12.4	11.9	12.7	13.1	10.9	11.7	11.3	12.1	12.5
12H	11.6	12.4	12.0	12.8	13.2	10.9	11.7	11.3	12.1	12.5
8H 4H	11.0	11.9	11.5	12.3	12.7	10.6	11.5	11.1	11.9	12.3
6H	11.7	12.4	12.1	12.8	13.2	11.1	11.8	11.6	12.3	12.7
8H	11.9	12.5	12.4	13.0	13.4	11.3	11.9	11.7	12.3	12.8
12H	12.0	12.6	12.5	13.0	13.5	11.3	11.9	11.8	12.3	12.8
12H 4H	11.0	11.8	11.5	12.2	12.6	10.6	11.4	11.1	11.8	12.2
6H	11.7	12.3	12.2	12.8	13.2	11.2	11.8	11.6	12.2	12.7
8H	11.9	12.5	12.4	12.9	13.4	11.3	11.9	11.8	12.3	12.8
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, 406.2 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.1)

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

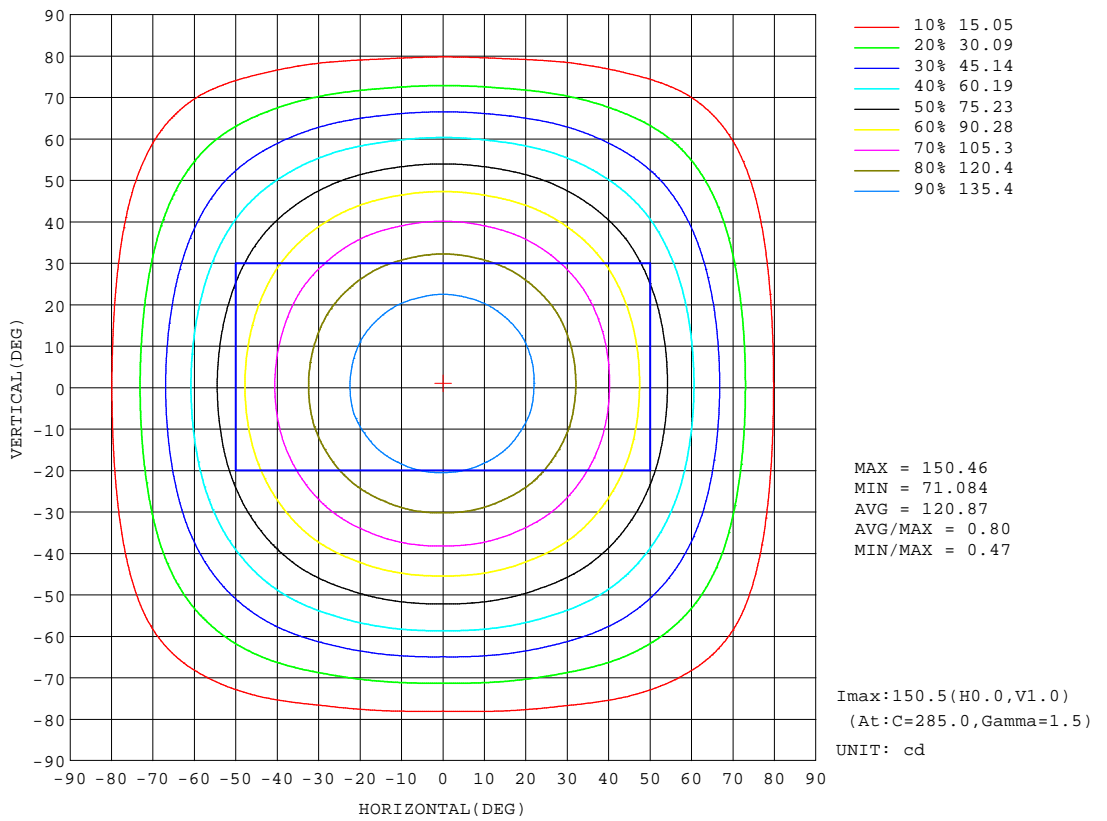
Humidity:65.0%

Test Distance:3.010m [K=1.1063]

Remarks:

ISOCANDELA DIAGRAM

Test:U:120.10V I:0.0448A P:5.2476W PF:0.9744 Freq:59.98Hz Lamp Flux:406.24x1 lm		
NAME: ASD-UCL-12D5CC-4000K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



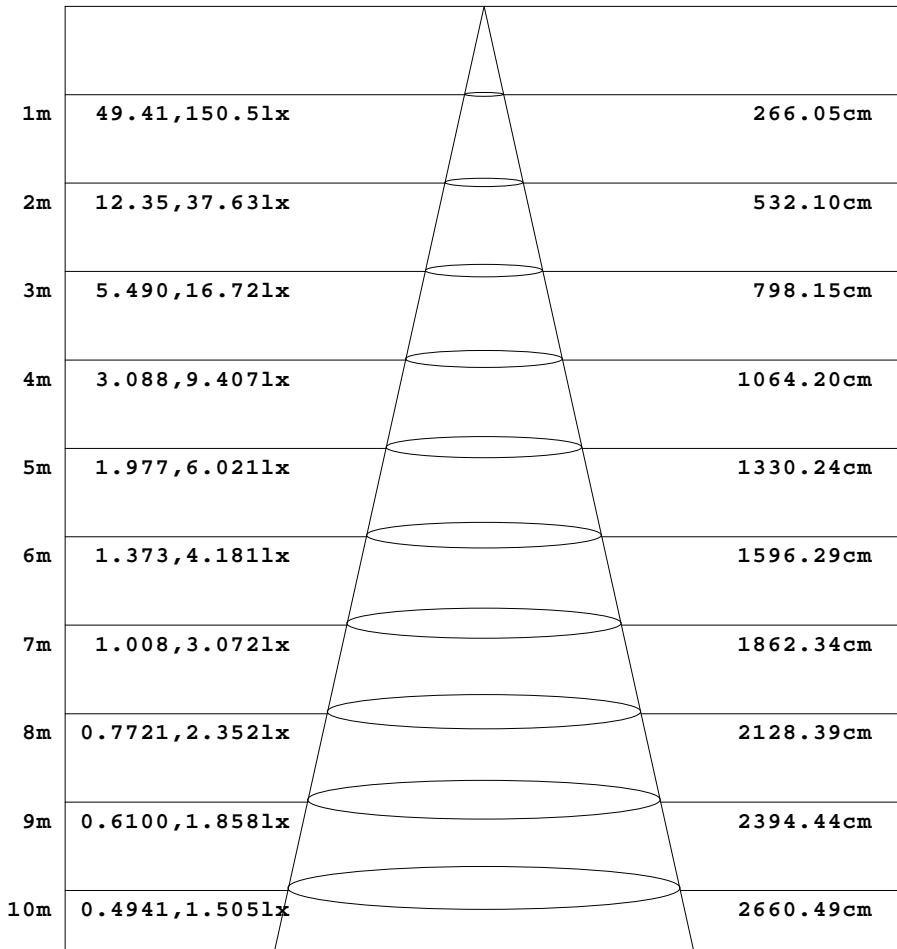
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:10 March 2021

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:5.2476W PF:0.9744 Freq:59.98Hz Lamp Flux:406.24x1 lm		
NAME: ASD-UCL-12D5CC-4000K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:283.5 lm



Height Eavg, Emax Angle:106.13deg Diameter

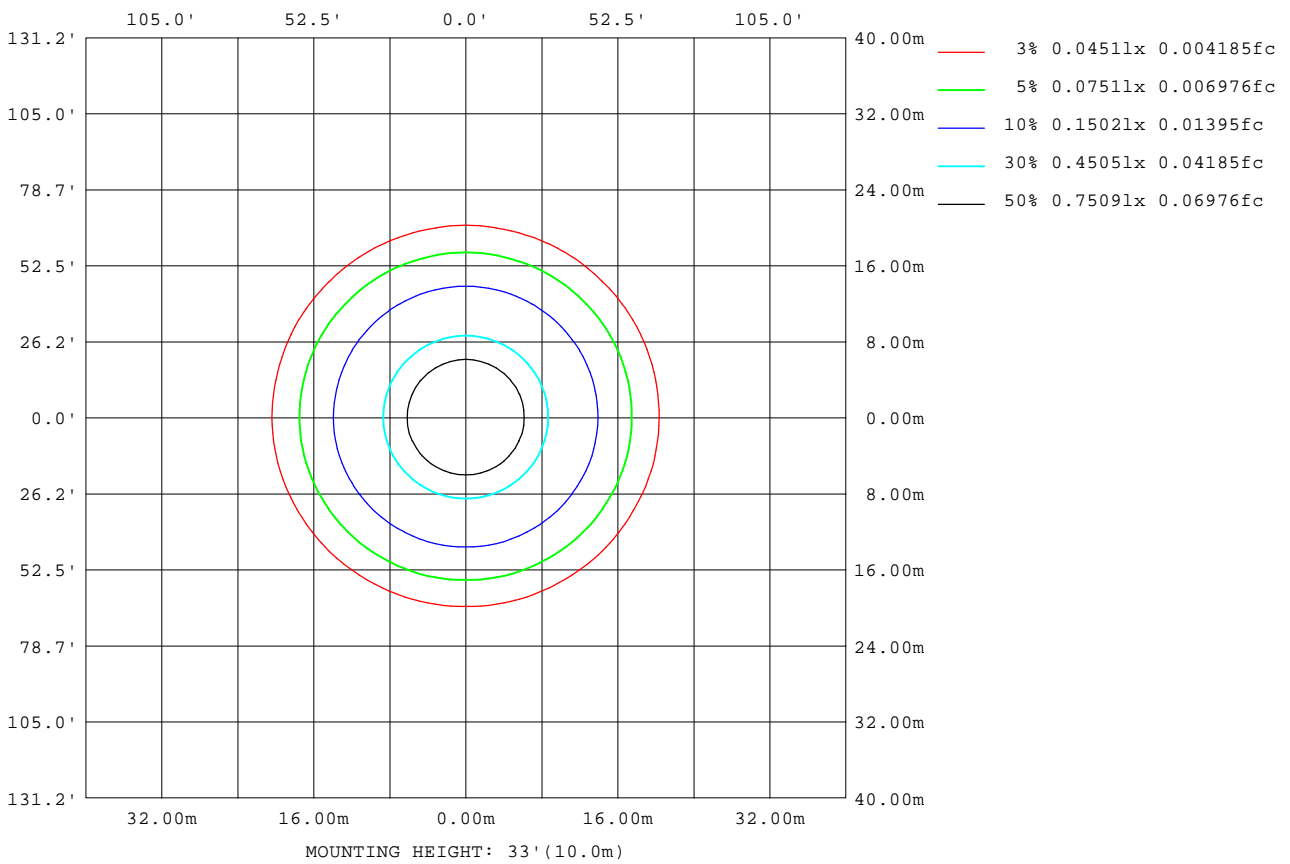
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:5.2476W PF:0.9744 Freq:59.98Hz Lamp Flux:406.24x1 lm		
NAME: ASD-UCL-12D5CC-4000K	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:5.2476W PF:0.9744 Freq:59.98Hz Lamp Flux:406.24x1 lm		
NAME: ASD-UCL-12D5CC-4000K	TYPE:	WEIGHT:
SPEC.:5W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

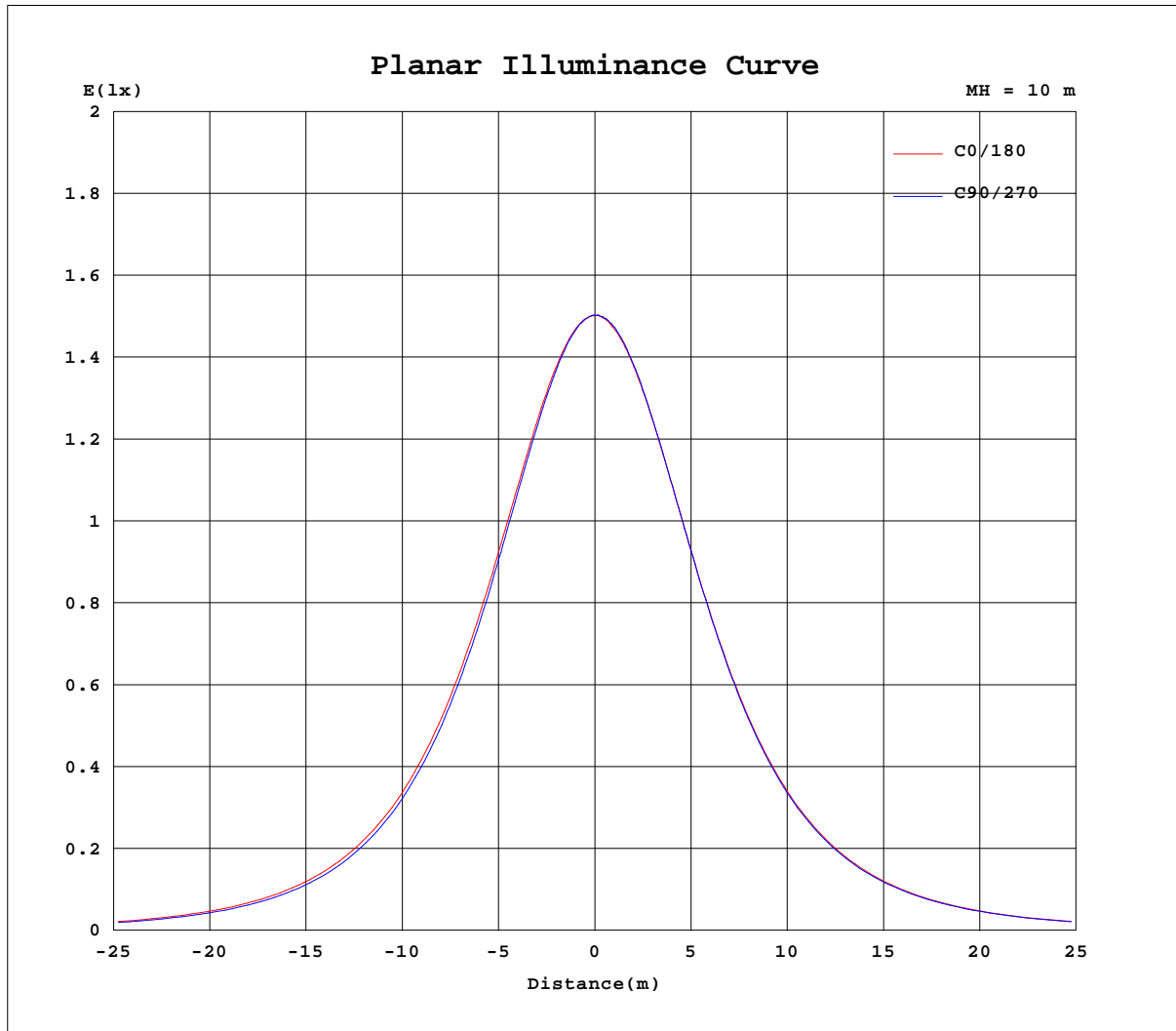
AvgL	cd/m2
L_0~180(65)av	235
L_0~180(75)av	198
L_0~180(85)av	137
L_90~270(65)av	222
L_90~270(75)av	181
L_90~270(85)av	99
L_45(65)av	228
L_45(75)av	190
L_45(85)av	116

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:5.2476W PF:0.9744 Freq:59.98Hz Lamp Flux:406.24x1 lm		
NAME: ASD-UCL-12D5CC-4000K	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	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
5	150	149	149	149	149	149	149	149	149	149	149	149	150	150	150	150	150	150	150
10	147	147	147	147	146	146	146	146	146	147	147	147	147	147	148	148	148	147	148
15	143	143	142	142	142	142	142	142	142	143	143	143	144	144	144	144	144	144	144
20	138	138	137	137	136	136	136	136	136	137	138	138	139	139	139	139	139	138	139
25	131	131	130	130	129	129	129	129	130	130	131	132	132	132	132	132	132	132	132
30	124	123	122	122	121	121	121	121	121	122	123	124	125	125	125	124	124	124	124
35	115	115	114	113	112	112	112	112	112	114	114	115	116	116	116	116	116	115	115
40	106	105	104	103	102	102	102	102	103	104	105	106	107	107	107	106	106	105	106
45	95.6	95.2	93.8	93.1	92.0	91.7	91.2	91.8	92.2	93.6	94.6	95.8	96.4	96.5	96.3	95.9	95.8	95.0	95.2
50	84.8	84.3	83.0	82.2	81.0	80.7	80.3	80.8	81.2	82.6	83.6	84.8	85.5	85.5	85.4	84.8	84.7	84.1	84.2
55	73.4	73.0	71.6	70.8	69.7	69.3	68.8	69.4	69.7	71.2	72.1	73.5	74.1	74.0	73.9	73.3	73.2	72.6	72.8
60	61.6	61.2	59.8	59.0	57.9	57.5	57.1	57.6	57.9	59.4	60.2	61.6	62.2	62.1	62.1	61.4	61.3	60.8	60.9
65	49.5	49.2	47.8	47.0	45.9	45.6	45.1	45.7	46.0	47.2	48.0	49.3	50.0	49.8	49.9	49.3	49.2	48.6	48.9
70	37.3	37.0	35.8	35.1	34.0	33.7	33.3	33.7	34.0	35.2	35.9	37.1	37.7	37.5	37.6	37.0	37.1	36.6	36.8
75	25.5	25.3	24.2	23.7	22.5	22.3	21.7	22.3	22.5	23.7	24.1	25.3	25.6	25.6	25.7	25.3	25.4	24.9	25.2
80	14.7	14.6	13.6	13.1	12.1	11.9	11.4	11.7	11.8	13.0	13.5	14.5	14.9	14.7	15.0	14.5	14.7	14.2	14.6
85	6.02	5.77	4.65	4.27	3.71	3.55	3.29	3.49	3.62	4.29	4.91	5.66	5.91	5.92	6.03	5.63	5.55	5.20	5.32
90	0.42	0.38	0.49	0.43	0.33	0.20	0.12	0.23	0.29	0.37	0.49	0.49	0.44	0.55	0.49	0.42	0.31	0.20	0.14
95	0.21	0.16	0.19	0.15	0.15	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.09	0.12	0.14	0.22	0.19	0.17	0.13
100	0.21	0.20	0.20	0.19	0.20	0.20	0.19	0.19	0.20	0.20	0.20	0.20	0.15	0.15	0.15	0.19	0.15	0.13	0.14
105	0.28	0.27	0.27	0.26	0.26	0.26	0.25	0.25	0.25	0.26	0.26	0.27	0.21	0.20	0.19	0.20	0.17	0.18	0.18
110	0.34	0.34	0.33	0.32	0.32	0.32	0.32	0.31	0.31	0.31	0.33	0.34	0.26	0.25	0.24	0.24	0.24	0.24	0.26
115	0.41	0.40	0.39	0.38	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.39	0.32	0.30	0.29	0.29	0.29	0.29	0.30
120	0.47	0.46	0.45	0.43	0.43	0.42	0.42	0.42	0.42	0.43	0.44	0.44	0.37	0.34	0.34	0.33	0.33	0.33	0.35
125	0.51	0.49	0.48	0.47	0.46	0.47	0.47	0.46	0.46	0.46	0.47	0.48	0.40	0.38	0.36	0.37	0.36	0.36	0.37
130	0.53	0.52	0.51	0.49	0.49	0.50	0.49	0.49	0.49	0.49	0.51	0.50	0.41	0.39	0.39	0.39	0.39	0.40	0.40
135	0.53	0.52	0.53	0.52	0.51	0.52	0.52	0.52	0.51	0.52	0.52	0.51	0.41	0.40	0.39	0.40	0.41	0.42	0.43
140	0.52	0.52	0.54	0.54	0.53	0.53	0.53	0.53	0.54	0.55	0.52	0.50	0.41	0.39	0.39	0.41	0.43	0.44	0.44
145	0.51	0.50	0.53	0.55	0.56	0.56	0.55	0.54	0.55	0.55	0.52	0.49	0.40	0.38	0.37	0.40	0.42	0.44	0.46
150	0.50	0.48	0.51	0.55	0.56	0.57	0.57	0.55	0.55	0.54	0.50	0.48	0.38	0.36	0.35	0.38	0.41	0.43	0.45
155	0.49	0.47	0.48	0.52	0.56	0.57	0.56	0.55	0.53	0.51	0.48	0.48	0.36	0.34	0.34	0.34	0.36	0.41	0.43
160	0.47	0.47	0.44	0.47	0.51	0.52	0.51	0.50	0.48	0.45	0.44	0.46	0.34	0.33	0.32	0.31	0.33	0.35	0.36
165	0.43	0.42	0.42	0.42	0.43	0.44	0.44	0.44	0.42	0.41	0.41	0.41	0.33	0.32	0.30	0.31	0.32	0.34	0.33
170	0.42	0.42	0.42	0.40	0.39	0.39	0.38	0.38	0.38	0.38	0.39	0.40	0.35	0.34	0.32	0.31	0.32	0.32	0.33
175	0.41	0.41	0.41	0.41	0.40	0.40	0.40	0.40	0.40	0.39	0.37	0.38	0.36	0.35	0.34	0.35	0.36	0.36	0.35
180	0.42	0.42	0.42	0.43	0.42	0.42	0.42	0.41	0.41	0.42	0.42	0.40	0.42	0.42	0.42	0.43	0.42	0.42	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:0.0448A P:5.2476W PF:0.9744 Freq:59.98Hz Lamp Flux:406.24x1 lm		
NAME: ASD-UCL-12D5CC-4000K	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	150	150	150	150	150														
5	150	150	150	150	149														
10	148	147	147	147	147														
15	144	144	144	144	143														
20	138	139	138	138	138														
25	132	132	132	132	132														
30	124	124	124	124	124														
35	115	116	116	116	116														
40	105	106	106	106	106														
45	95.2	95.6	95.7	96.1	95.9														
50	84.1	84.5	84.6	85.3	85.1														
55	72.7	73.1	73.3	73.8	73.7														
60	60.8	61.3	61.4	62.0	61.9														
65	48.7	49.2	49.3	50.0	49.7														
70	36.7	37.1	37.2	37.8	37.6														
75	25.0	25.5	25.5	26.0	25.8														
80	14.4	15.0	14.9	15.3	14.9														
85	5.40	5.86	5.99	6.35	6.21														
90	0.25	0.35	0.44	0.50	0.54														
95	0.19	0.22	0.21	0.18	0.21														
100	0.14	0.18	0.18	0.15	0.15														
105	0.18	0.19	0.21	0.20	0.21														
110	0.26	0.24	0.26	0.25	0.27														
115	0.30	0.30	0.30	0.31	0.32														
120	0.34	0.33	0.34	0.35	0.37														
125	0.36	0.37	0.37	0.39	0.40														
130	0.40	0.39	0.40	0.40	0.41														
135	0.42	0.41	0.41	0.41	0.42														
140	0.45	0.43	0.41	0.40	0.41														
145	0.45	0.43	0.41	0.38	0.39														
150	0.44	0.42	0.38	0.37	0.38														
155	0.42	0.37	0.35	0.36	0.36														
160	0.36	0.34	0.33	0.34	0.35														
165	0.33	0.33	0.33	0.33	0.33														
170	0.33	0.32	0.34	0.35	0.35														
175	0.35	0.35	0.37	0.38	0.37														
180	0.42	0.41	0.43	0.42	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: