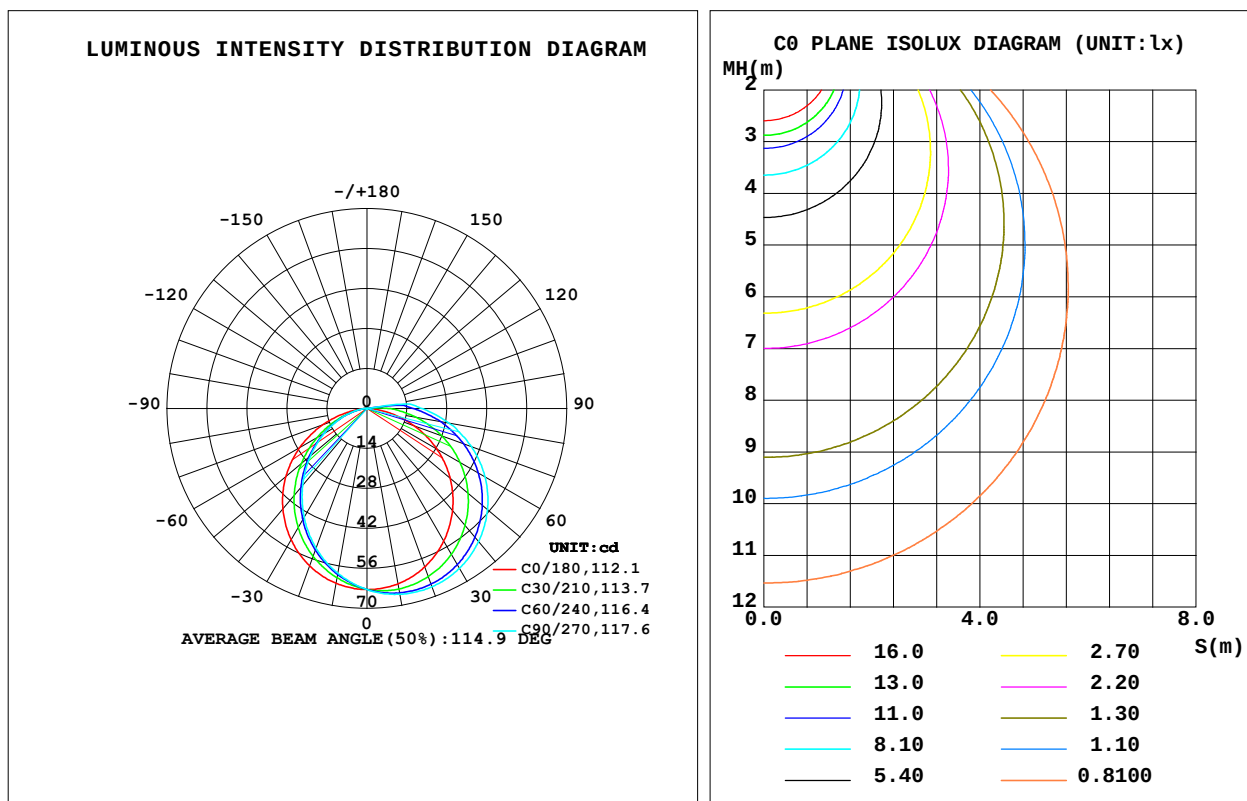


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.0476A P:5.5977W PF:0.9787 Freq:59.98Hz Lamp Flux:325.59x1 lm					
NAME: ASD-UCB-12D5CC-BZ			TYPE:0		WEIGHT:
SPEC.:5000K			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp			SUR.:		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 58.17 lm/W
MODEL	ASD-UCB-12D5CC-WH	I _{max} (cd)	113.9	S/MH(C0/180)	1.24	
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	1.05	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	325.59	h UP, DN(C0-180)	1.7,60.4	
NOMINAL FLUX(lm)	325.59	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.4,37.5	
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 G0-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	106.2	111.0	112.7	110.3	105.4	100.7	99.28	101.5	0- 10	10.20	10.20	3.13, 3.13
20	100.6	110.2	113.8	108.7	99.19	90.43	87.68	91.65	10- 20	29.21	39.41	12.1, 12.1
30	91.58	105.7	111.0	103.5	89.45	77.25	73.66	79.04	20- 30	44.33	83.74	25.7, 25.7
40	79.60	97.41	104.7	94.80	76.76	61.92	58.14	64.20	30- 40	53.69	137.4	42.2, 42.2
50	65.30	86.25	94.07	83.10	61.72	45.65	42.63	48.07	40- 50	56.31	193.7	59.5, 59.5
60	48.79	71.62	78.17	68.33	44.63	29.87	28.25	31.95	50- 60	51.99	245.7	75.5, 75.5
70	30.50	52.05	55.53	48.74	26.33	16.01	15.82	17.39	60- 70	41.05	286.8	88.1, 88.1
80	12.05	26.54	27.54	22.84	9.014	5.574	5.839	6.328	70- 80	24.68	311.5	95.7, 95.7
90	0.3843	0.6739	6.140	0.3873	0.1370	0.1509	0.1706	0.1802	80- 90	7.244	318.7	97.9, 97.9
100	0.3326	1.437	7.331	1.059	0.3098	0.3326	0.3809	0.3321	90-100	1.539	320.2	98.4, 98.4
110	0.4332	1.959	1.710	2.359	0.3375	0.4874	0.5378	0.5008	100-110	1.154	321.4	98.7, 98.7
120	0.5408	3.107	4.713	2.427	0.4021	0.4517	0.5550	0.5225	110-120	1.363	322.8	99.1, 99.1
130	0.5412	2.000	4.300	1.395	0.3865	0.4567	0.5399	0.4496	120-130	1.329	324.1	99.5, 99.5
140	0.4832	1.046	2.634	0.6068	0.3486	0.3852	0.3706	0.4070	130-140	0.7945	324.9	99.8, 99.8
150	0.4032	0.3525	1.666	0.3870	0.3036	0.3373	0.4179	0.3653	140-150	0.4167	325.3	99.9, 99.9
160	0.3399	0.4150	0.3909	0.4470	0.2763	0.2672	0.2820	0.3007	150-160	0.1681	325.5	100, 100
170	0.2445	0.3904	0.5121	0.3940	0.2344	0.2030	0.2389	0.2489	160-170	0.0952	325.6	100, 100
180	0.2400	0.2446	0.2380	0.2401	0.2404	0.2483	0.2390	0.2438	170-180	0.0270	325.6	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: 21 April 2021

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System: EVERFINE G0-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:0.0476A P:5.5977W PF:0.9787 Freq:59.98Hz Lamp Flux:325.59x1 lm											
NAME: ASD-UCB-12D5CC-BZ					TYPE:0			WEIGHT:			
SPEC.:5000K					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	8.2	9.8	8.5	10.0	10.2	10.0	11.5	10.3	11.7	12.0	
	3H	9.8	11.2	10.1	11.4	11.7	12.0	13.4	12.4	13.7	
	4H	10.3	11.7	10.7	12.0	12.3	12.9	14.2	13.2	14.5	
	6H	10.7	12.0	11.1	12.3	12.6	13.6	14.8	13.9	15.1	
	8H	10.8	12.0	11.2	12.3	12.7	13.8	15.1	14.2	15.4	
	12H	10.8	12.0	11.2	12.3	12.7	14.0	15.2	14.4	15.5	
4H	2H	9.4	10.7	9.7	11.0	11.3	10.6	11.9	11.0	12.2	
	3H	11.1	12.3	11.5	12.6	13.0	12.9	14.0	13.3	14.4	
	4H	11.9	12.9	12.3	13.3	13.7	13.9	15.0	14.3	15.3	
	6H	12.4	13.3	12.8	13.7	14.1	14.7	15.7	15.2	16.1	
	8H	12.5	13.4	13.0	13.8	14.2	15.1	16.0	15.5	16.4	
	12H	12.6	13.4	13.1	13.8	14.3	15.3	16.2	15.8	16.6	
8H	4H	12.5	13.4	13.0	13.8	14.2	14.2	15.1	14.7	15.5	
	6H	13.3	14.0	13.7	14.4	14.9	15.2	16.0	15.7	16.4	
	8H	13.5	14.2	14.0	14.7	15.2	15.7	16.4	16.2	16.8	
	12H	13.7	14.3	14.2	14.8	15.3	16.1	16.6	16.6	17.1	
12H	4H	12.6	13.4	13.1	13.8	14.3	14.2	15.0	14.7	15.5	
	6H	13.5	14.1	14.0	14.6	15.1	15.3	16.0	15.8	16.4	
	8H	13.8	14.4	14.3	14.9	15.4	15.8	16.4	16.3	16.9	
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					

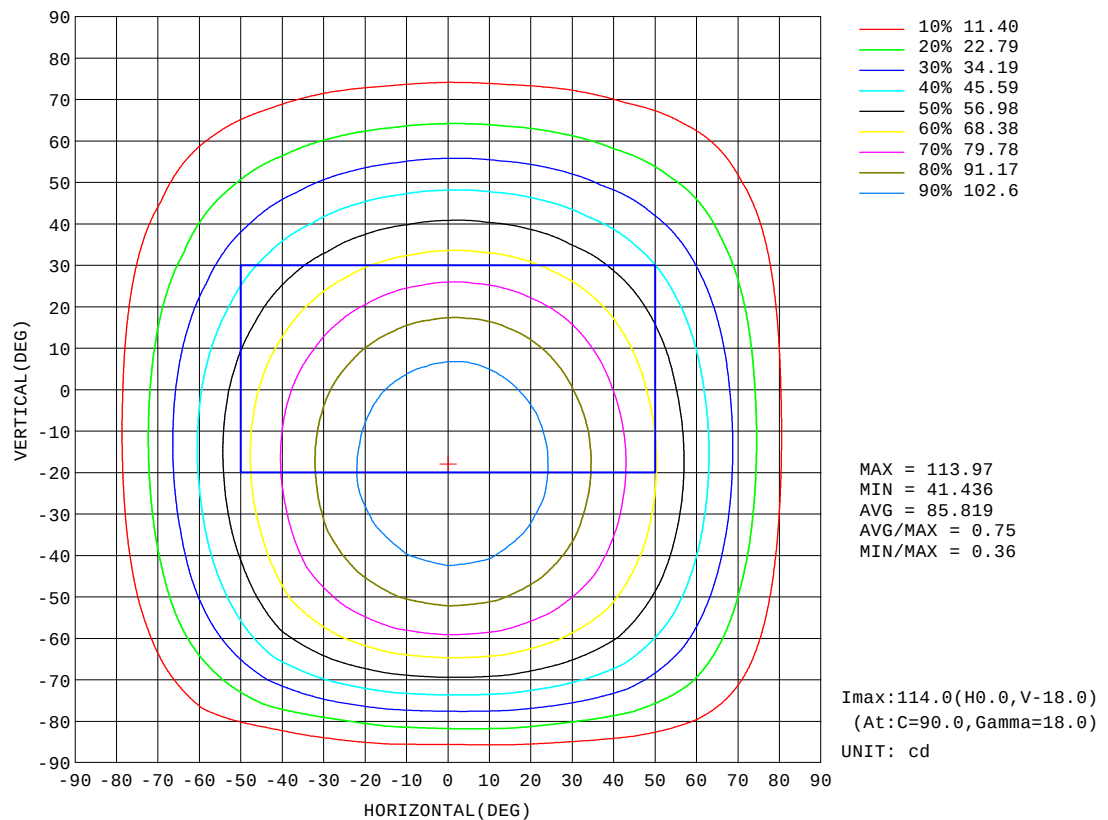
CIE Pub.117, 325.6 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.9)

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:0.0476A P:5.5977W PF:0.9787 Freq:59.98Hz Lamp Flux:325.59x1 lm		
NAME: ASD-UCB-12D5CC-BZ	TYPE:0	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



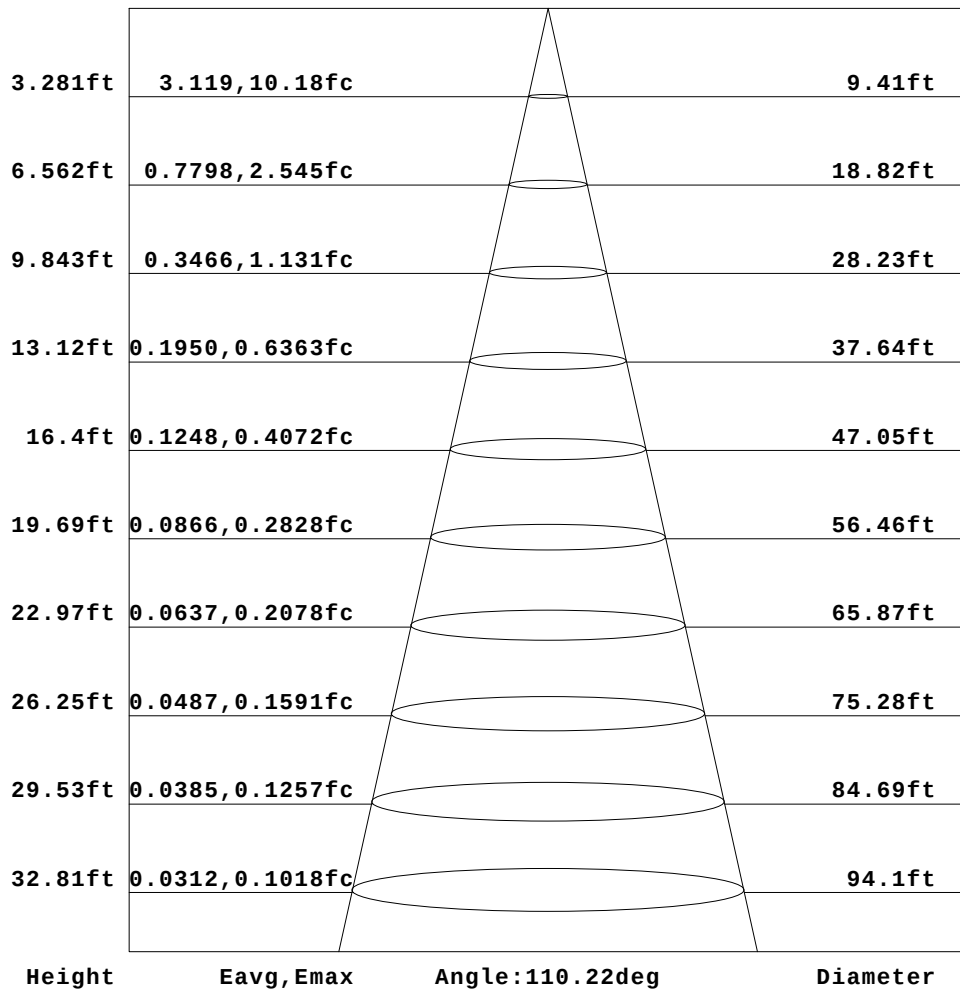
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:21 April 2021

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE G0-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.010m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.04V I:0.0476A P:5.5977W PF:0.9787 Freq:59.98Hz Lamp Flux:325.59x1 lm		
NAME: ASD-UCB-12D5CC-BZ	TYPE:0	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:223.3 lm



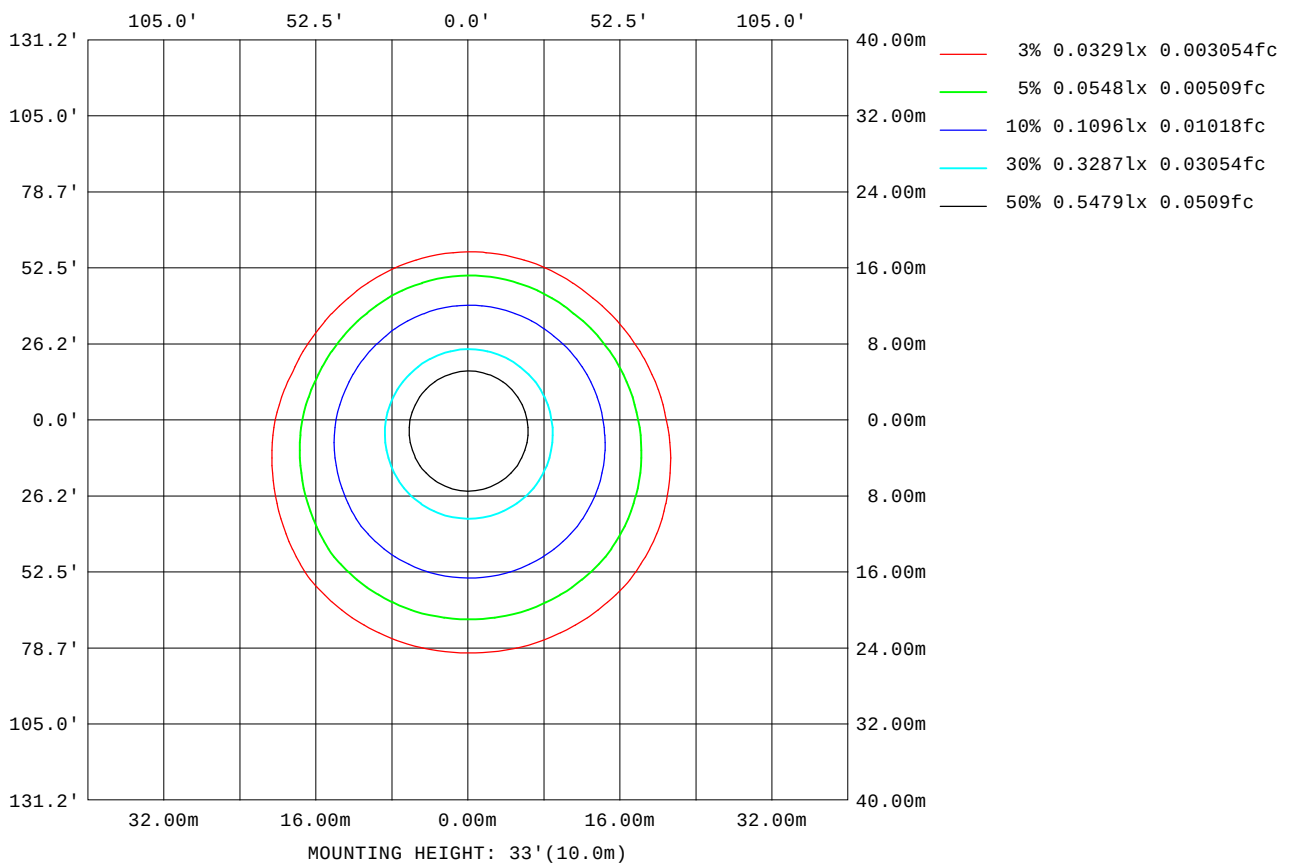
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE G0-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.010m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.04V I:0.0476A P:5.5977W PF:0.9787 Freq:59.98Hz Lamp Flux:325.59x1 lm		
NAME: ASD-UCB-12D5CC-BZ	TYPE:0	WEIGHT:
SPEC.:5000K	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 G0-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:0.0476A P:5.5977W PF:0.9787 Freq:59.98Hz Lamp Flux:325.59x1 lm		
NAME: ASD-UCB-12D5CC-BZ	TYPE:0	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

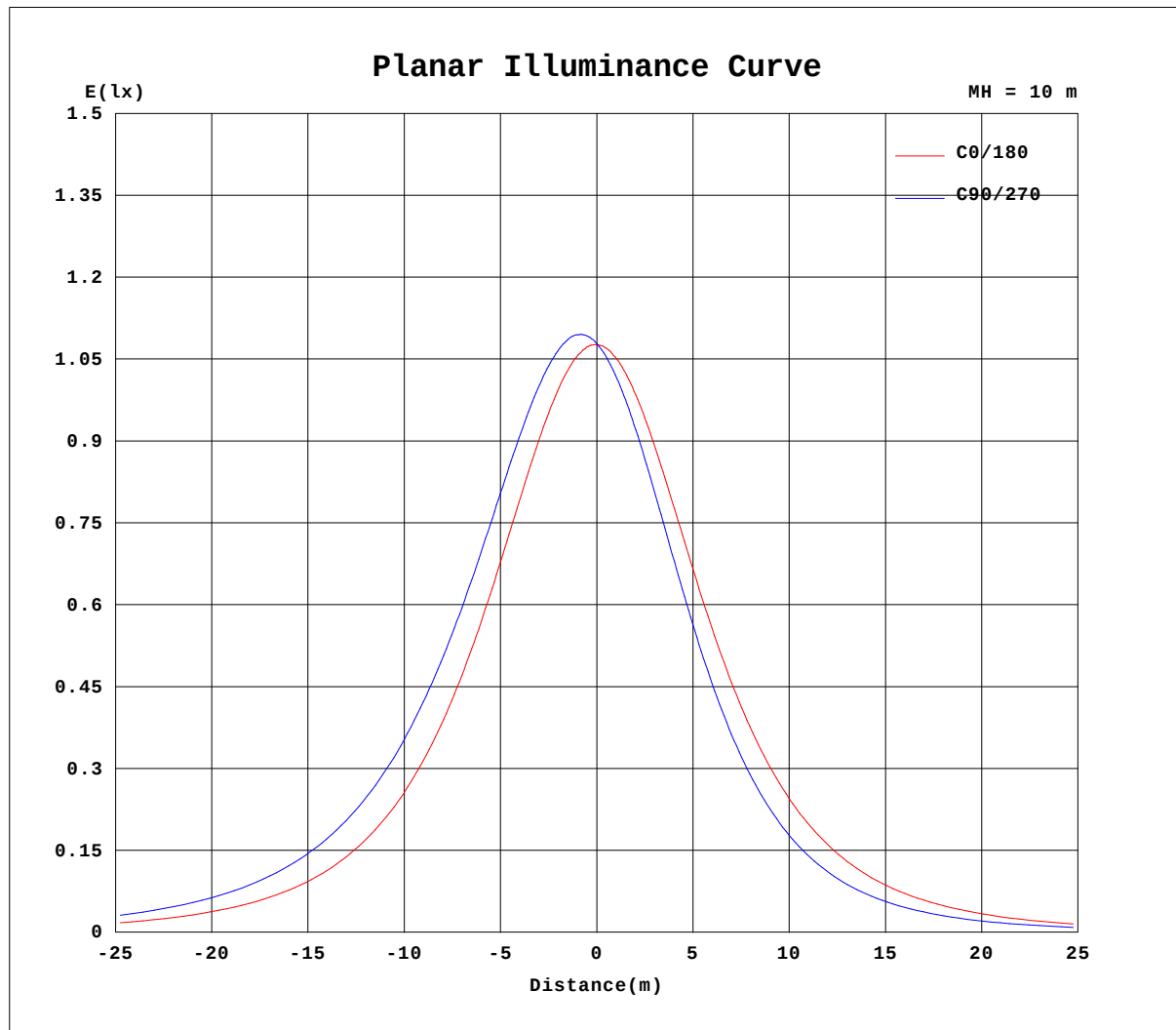
AvgL	cd/m2
L_0~180(65)av	178
L_0~180(75)av	149
L_0~180(85)av	76
L_90~270(65)av	211
L_90~270(75)av	202
L_90~270(85)av	181
L_45(65)av	200
L_45(75)av	188
L_45(85)av	153

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 G0-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 G0-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:0.0476A P:5.5977W PF:0.9787 Freq:59.98Hz Lamp Flux:325.59x1 lm																	
NAME: ASD-UCB-12D5CC-BZ									TYPE:0			WEIGHT:					
SPEC.:5000K									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	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
5	107	108	109	110	110	111	111	111	110	109	109	108	107	106	105	105	104	104	104
10	106	108	110	111	112	113	113	112	111	110	109	107	105	104	102	101	99.9	99.3	99.3
15	104	106	109	111	113	114	114	113	112	110	108	105	103	100	97.9	96.0	94.7	94.0	93.8
20	101	104	107	110	112	114	114	113	111	109	106	102	99.2	95.6	92.8	90.4	88.8	87.7	87.7
25	96.4	101	105	108	111	113	113	112	110	106	102	98.6	94.7	90.5	87.1	84.3	82.2	81.0	81.0
30	91.6	96.4	101	106	109	111	111	110	107	104	98.7	93.9	89.5	84.5	80.6	77.3	75.0	73.7	73.7
35	85.9	91.6	96.9	102	105	108	108	107	104	99.5	94.0	88.5	83.4	77.9	73.5	69.9	67.5	66.0	66.0
40	79.6	85.9	91.8	97.4	101	104	105	103	99.5	94.8	88.5	82.5	76.8	70.7	65.9	61.9	59.5	58.1	58.1
45	72.7	79.6	86.0	92.3	96.5	99.6	99.9	98.5	94.5	89.2	82.3	75.8	69.5	63.0	57.8	53.9	51.6	50.3	50.3
50	65.3	72.6	79.6	86.3	90.7	93.7	94.1	92.5	88.6	83.1	75.5	68.4	61.7	54.7	49.5	45.6	43.7	42.6	42.6
55	57.3	65.1	72.5	79.4	83.8	86.7	86.9	85.5	81.6	76.1	67.9	60.4	53.4	46.2	41.0	37.6	36.0	35.1	35.2
60	48.8	56.9	64.8	71.6	75.5	78.1	78.2	77.0	73.5	68.3	59.6	51.6	44.6	37.3	32.7	29.9	28.7	28.0	28.3
65	39.8	47.6	55.8	62.6	65.8	67.9	67.7	66.8	63.9	59.3	50.4	42.3	35.6	28.4	24.7	22.6	21.9	21.5	21.7
70	30.5	37.7	45.7	52.0	54.4	55.9	55.5	54.9	52.5	48.7	40.5	32.6	26.3	19.9	17.4	16.0	15.8	15.5	15.8
75	21.2	27.3	34.6	39.9	41.4	42.5	41.9	41.5	39.4	35.9	29.4	22.6	17.3	12.2	11.0	10.2	10.3	10.1	10.5
80	12.0	17.2	23.2	26.5	27.0	28.0	27.5	26.9	24.4	22.8	18.1	12.9	9.01	6.21	5.80	5.57	5.69	5.66	5.84
85	3.98	8.26	11.1	12.8	13.3	14.5	13.3	13.5	10.9	9.33	8.10	4.26	2.64	2.05	2.00	2.07	2.24	2.29	2.42
90	0.38	0.58	0.40	0.67	1.88	4.84	6.14	3.81	1.09	0.39	0.57	0.40	0.14	0.17	0.17	0.15	0.15	0.16	0.17
95	0.20	0.10	0.79	1.27	2.25	6.85	7.14	4.14	1.38	1.12	0.38	0.22	0.18	0.20	0.21	0.24	0.24	0.25	0.25
100	0.33	0.80	0.47	1.44	3.66	5.87	7.33	5.82	2.25	1.06	0.65	0.51	0.31	0.35	0.33	0.33	0.37	0.39	0.38
105	0.39	1.09	0.99	0.70	1.46	3.67	4.15	2.68	0.91	1.17	1.37	0.64	0.34	0.42	0.43	0.42	0.47	0.51	0.50
110	0.43	0.97	1.99	1.96	1.51	1.57	1.71	1.65	2.12	2.36	1.39	0.70	0.34	0.45	0.50	0.49	0.52	0.54	0.54
115	0.49	0.94	2.06	3.05	3.20	3.10	3.25	3.37	3.56	2.64	1.35	0.71	0.38	0.45	0.50	0.54	0.56	0.56	0.54
120	0.54	0.90	1.73	3.11	4.18	4.55	4.71	4.58	3.84	2.43	1.13	0.77	0.40	0.46	0.50	0.45	0.57	0.58	0.56
125	0.55	0.79	1.26	2.66	3.82	4.85	5.03	4.48	3.28	1.97	0.83	0.70	0.41	0.44	0.47	0.46	0.41	0.53	0.56
130	0.54	0.69	0.90	2.00	3.09	4.15	4.30	3.75	2.63	1.39	0.78	0.57	0.39	0.41	0.44	0.46	0.45	0.54	0.54
135	0.51	0.60	0.79	1.40	2.29	3.19	3.30	2.92	1.93	1.03	0.65	0.50	0.36	0.38	0.40	0.40	0.44	0.43	0.42
140	0.48	0.52	0.57	1.05	1.78	2.58	2.63	2.10	1.36	0.61	0.52	0.44	0.35	0.36	0.38	0.39	0.38	0.37	0.37
145	0.45	0.50	0.48	0.44	1.44	1.94	1.94	1.66	1.23	0.45	0.42	0.47	0.32	0.35	0.34	0.40	0.40	0.39	0.42
150	0.40	0.45	0.42	0.35	0.34	1.48	1.67	0.38	0.33	0.39	0.37	0.44	0.30	0.32	0.30	0.34	0.37	0.39	0.42
155	0.37	0.43	0.41	0.45	0.32	0.32	0.31	0.31	0.31	0.48	0.50	0.42	0.29	0.28	0.28	0.29	0.33	0.34	0.36
160	0.34	0.44	0.49	0.42	0.43	0.39	0.39	0.44	0.45	0.45	0.40	0.34	0.28	0.26	0.28	0.27	0.26	0.27	0.28
165	0.26	0.37	0.40	0.48	0.48	0.41	0.40	0.39	0.52	0.41	0.37	0.26	0.25	0.24	0.25	0.24	0.24	0.24	0.24
170	0.24	0.31	0.37	0.39	0.49	0.52	0.51	0.49	0.44	0.39	0.35	0.24	0.23	0.22	0.21	0.20	0.22	0.23	0.24
175	0.25	0.26	0.28	0.31	0.32	0.41	0.41	0.39	0.36	0.29	0.24	0.24	0.23	0.20	0.20	0.20	0.22	0.22	0.22
180	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23	0.24	0.24	0.25	0.26	0.24	0.23	0.24	0.25	0.24	0.24	0.24

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 G0-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:0.0476A P:5.5977W PF:0.9787 Freq:59.98Hz Lamp Flux:325.59x1 lm		
NAME: ASD-UCB-12D5CC-BZ	TYPE:0	WEIGHT:
SPEC.:5000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2
UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	108	108	108	108	108														
5	104	104	105	106	107														
10	99.6	100	101	103	104														
15	94.3	95.4	96.9	99.1	101														
20	88.3	89.7	91.6	94.5	97.4														
25	81.6	83.3	85.6	89.1	92.7														
30	74.4	76.3	79.0	83.1	87.1														
35	66.8	68.9	71.8	76.4	80.9														
40	58.9	61.2	64.2	69.1	74.1														
45	51.1	53.2	56.2	61.4	66.9														
50	43.3	45.2	48.1	53.2	59.0														
55	35.8	37.4	39.9	44.9	50.8														
60	28.6	30.0	32.0	36.4	42.1														
65	21.9	22.9	24.3	28.0	33.2														
70	15.9	16.6	17.4	20.1	24.3														
75	10.5	11.0	11.2	13.0	15.8														
80	5.89	6.16	6.33	7.15	8.45														
85	2.43	2.51	2.46	2.97	3.05														
90	0.17	0.18	0.18	0.49	0.61														
95	0.24	0.23	0.22	0.48	0.48														
100	0.38	0.34	0.33	0.37	0.66														
105	0.48	0.43	0.44	0.46	0.45														
110	0.53	0.50	0.50	0.52	0.43														
115	0.56	0.55	0.57	0.52	0.45														
120	0.59	0.48	0.52	0.53	0.46														
125	0.47	0.46	0.51	0.51	0.45														
130	0.54	0.44	0.45	0.49	0.44														
135	0.49	0.41	0.45	0.45	0.43														
140	0.37	0.41	0.41	0.45	0.45														
145	0.41	0.41	0.42	0.41	0.44														
150	0.39	0.42	0.37	0.39	0.42														
155	0.35	0.33	0.33	0.39	0.35														
160	0.29	0.28	0.30	0.31	0.33														
165	0.25	0.28	0.28	0.29	0.26														
170	0.23	0.23	0.25	0.29	0.25														
175	0.21	0.21	0.23	0.24	0.24														
180	0.24	0.23	0.24	0.25	0.25														

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: