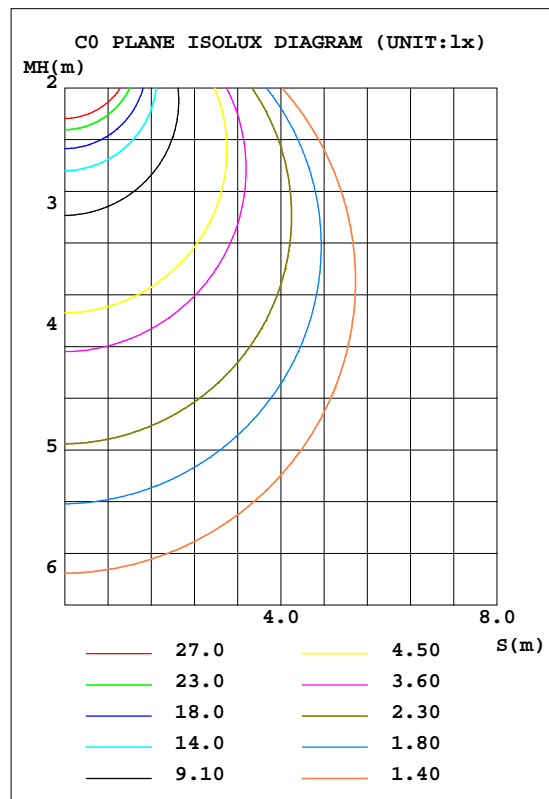
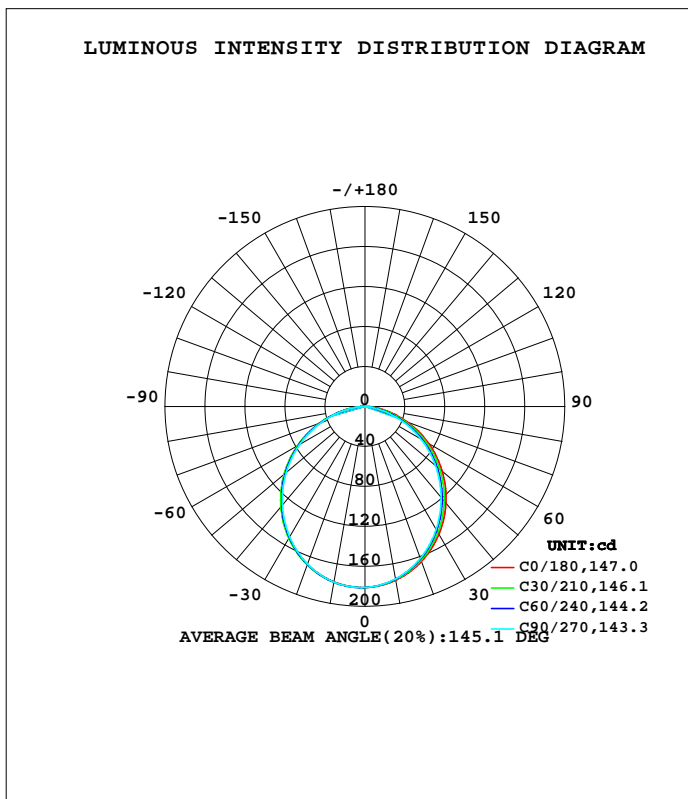


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.02V I:0.0930A P:8.9234W PF:0.7999 Freq:59.98Hz Lamp Flux:488.089x1 lm		
NAME: ASD-UCS-18D8CC-XX 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 54.70 lm/W			
MODEL	ASD-UCS-18D8CC-XX	I _{max} (cd)	181.7	S/MH(C0/180)	1.25
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	488.09	h UP, DN(C0-180)	0.3,47.1
NOMINAL FLUX(lm)	488.089	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.2,52.4
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:07 October 2020

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	176.6	175.8	175.3	175.1	178.2	178.5	178.4	179.2	0- 10	17.10	17.10	3.5,3.5
20	165.1	163.3	161.8	161.9	168.1	168.4	167.9	169.7	10- 20	48.59	65.69	13.5,13.5
30	147.9	144.8	142.3	142.9	151.8	151.8	150.8	153.5	20- 30	72.64	138.3	28.3,28.3
40	126.2	122.1	118.7	119.8	130.5	130.1	128.6	132.2	30- 40	86.08	224.4	46,46
50	101.0	96.26	92.24	93.60	105.4	104.8	103.0	107.1	40- 50	87.60	312.0	63.9,63.9
60	73.39	68.41	64.22	65.40	77.36	76.73	75.11	79.44	50- 60	77.49	389.5	79.8,79.8
70	44.74	39.84	35.74	36.63	47.88	47.38	46.13	50.34	60- 70	57.45	446.9	91.6,91.6
80	18.15	13.74	10.02	10.86	20.11	19.51	18.46	22.36	70- 80	31.38	478.3	98,98
90	0.1334	0.0969	0.0803	0.1058	0.0858	0.0290	0.0172	0.2176	80- 90	7.269	485.6	99.5,99.5
100	0.2486	0.2214	0.2103	0.2333	0.1637	0.1427	0.1205	0.1246	90-100	0.1328	485.7	99.5,99.5
110	0.4197	0.3803	0.3707	0.3909	0.3151	0.2727	0.2519	0.2572	100-110	0.2706	486.0	99.6,99.6
120	0.5746	0.5132	0.5035	0.5242	0.4435	0.3938	0.3858	0.3862	110-120	0.3952	486.4	99.7,99.7
130	0.6425	0.6128	0.5995	0.6249	0.5124	0.4867	0.4789	0.4688	120-130	0.4566	486.8	99.7,99.7
140	0.6311	0.6866	0.6657	0.6934	0.5188	0.5049	0.5405	0.4961	130-140	0.4424	487.3	99.8,99.8
150	0.5973	0.6779	0.7462	0.6528	0.4879	0.4567	0.5674	0.4668	140-150	0.3711	487.7	99.9,99.9
160	0.5397	0.5720	0.6405	0.5390	0.4394	0.3860	0.4342	0.4095	150-160	0.2538	487.9	100,100
170	0.4917	0.5302	0.5060	0.4888	0.4227	0.3964	0.4084	0.4234	160-170	0.1334	488.0	100,100
180	0.4929	0.5246	0.5140	0.5164	0.4947	0.5256	0.5131	0.5133	170-180	0.0449	488.1	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:07 October 2020

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:120.02V I:0.0930A P:8.9234W PF:0.7999 Freq:59.98Hz Lamp Flux:488.089x1 lm										
NAME: ASD-UCS-18D8CC-XX 4000K					TYPE:			WEIGHT:		
SPEC.:8W					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	8.6	10.1	8.8	10.3	10.5	8.0	9.5	8.3	9.7	9.9
3H	10.0	11.4	10.3	11.7	11.9	9.2	10.6	9.6	10.9	11.1
4H	10.6	11.9	10.9	12.2	12.4	9.6	11.0	10.0	11.2	11.5
6H	11.0	12.2	11.3	12.5	12.8	9.8	11.1	10.2	11.3	11.6
8H	11.1	12.3	11.5	12.6	12.9	9.8	11.0	10.2	11.3	11.6
12H	11.2	12.3	11.5	12.6	12.9	9.8	10.9	10.1	11.2	11.5
4H 2H	9.1	10.4	9.4	10.6	10.9	8.6	9.9	9.0	10.2	10.5
3H	10.7	11.8	11.1	12.1	12.5	10.0	11.2	10.4	11.5	11.8
4H	11.4	12.4	11.8	12.7	13.1	10.5	11.6	10.9	11.9	12.2
6H	11.9	12.8	12.3	13.2	13.5	10.8	11.7	11.2	12.1	12.4
8H	12.1	12.9	12.5	13.3	13.7	10.8	11.7	11.2	12.0	12.4
12H	12.2	12.9	12.6	13.3	13.8	10.8	11.6	11.2	12.0	12.4
4H 4H	11.5	12.4	11.9	12.8	13.2	10.7	11.6	11.2	12.0	12.4
6H	12.2	12.9	12.6	13.3	13.7	11.1	11.8	11.6	12.2	12.7
8H	12.4	13.0	12.9	13.5	13.9	11.2	11.8	11.6	12.2	12.7
12H	12.6	13.1	13.0	13.6	14.0	11.2	11.7	11.6	12.2	12.6
8H 4H	11.5	12.3	11.9	12.7	13.1	10.8	11.5	11.2	11.9	12.4
6H	12.2	12.8	12.6	13.2	13.7	11.1	11.8	11.6	12.2	12.7
8H	12.4	13.0	12.9	13.4	13.9	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 / - 0.3				
1.2H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4				

12H 4H
CIE Pub.117, 488.1 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.5)
6H

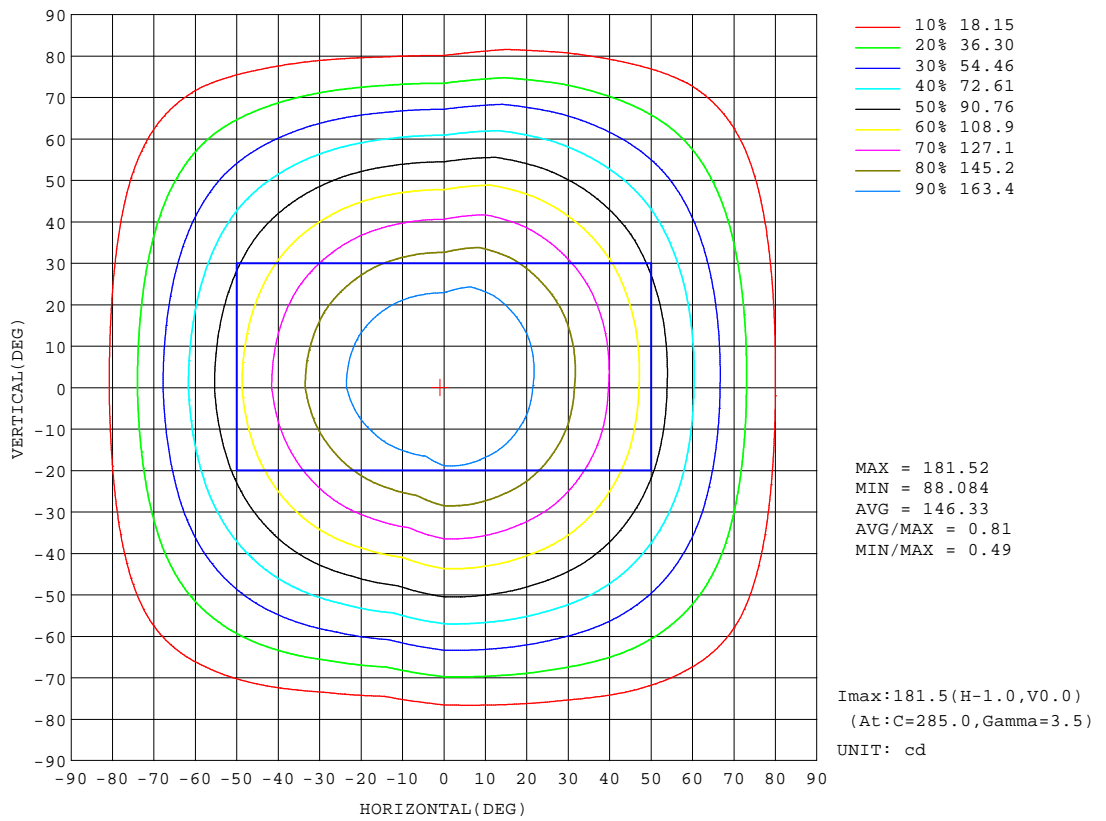
8H

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:07 October 2020

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:120.02V I:0.0930A P:8.9234W PF:0.7999 Freq:59.98Hz Lamp Flux:488.089x1 lm		
NAME: ASD-UCS-18D8CC-XX 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



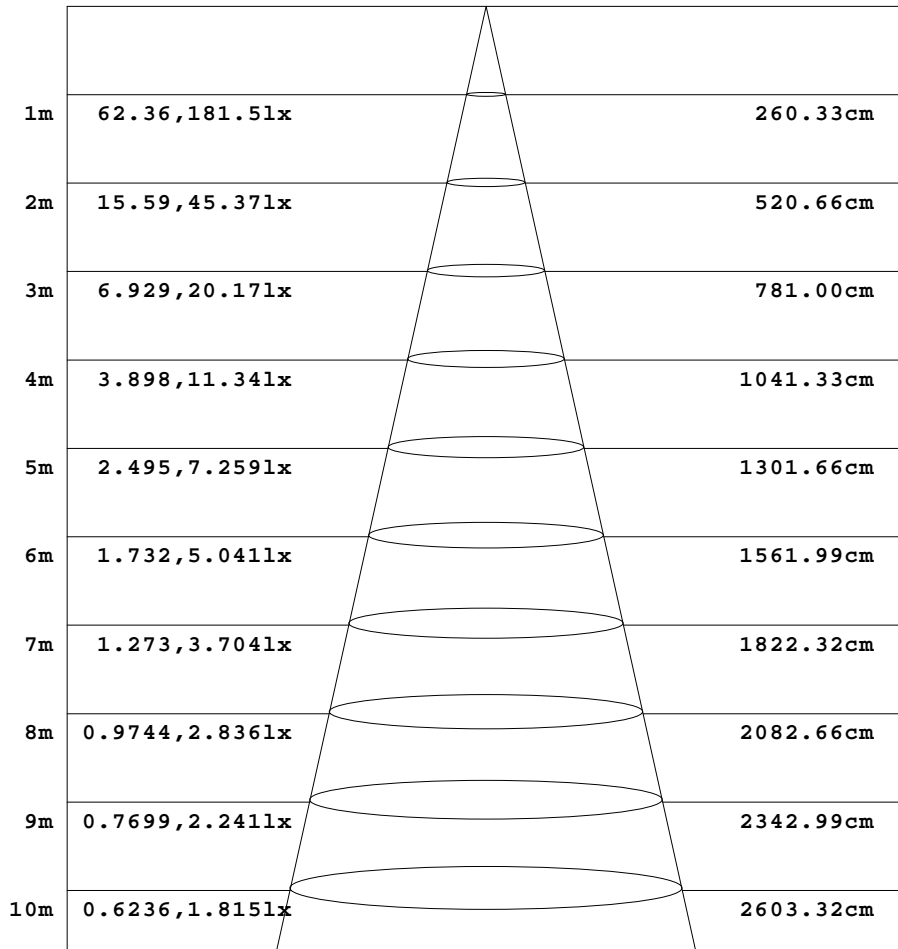
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:07 October 2020

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:120.02V I:0.0930A P:8.9234W PF:0.7999 Freq:59.98Hz Lamp Flux:488.089x1 lm		
NAME: ASD-UCS-18D8CC-XX 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:332.8 lm



Height Eavg, Emax Angle:104.93deg Diameter

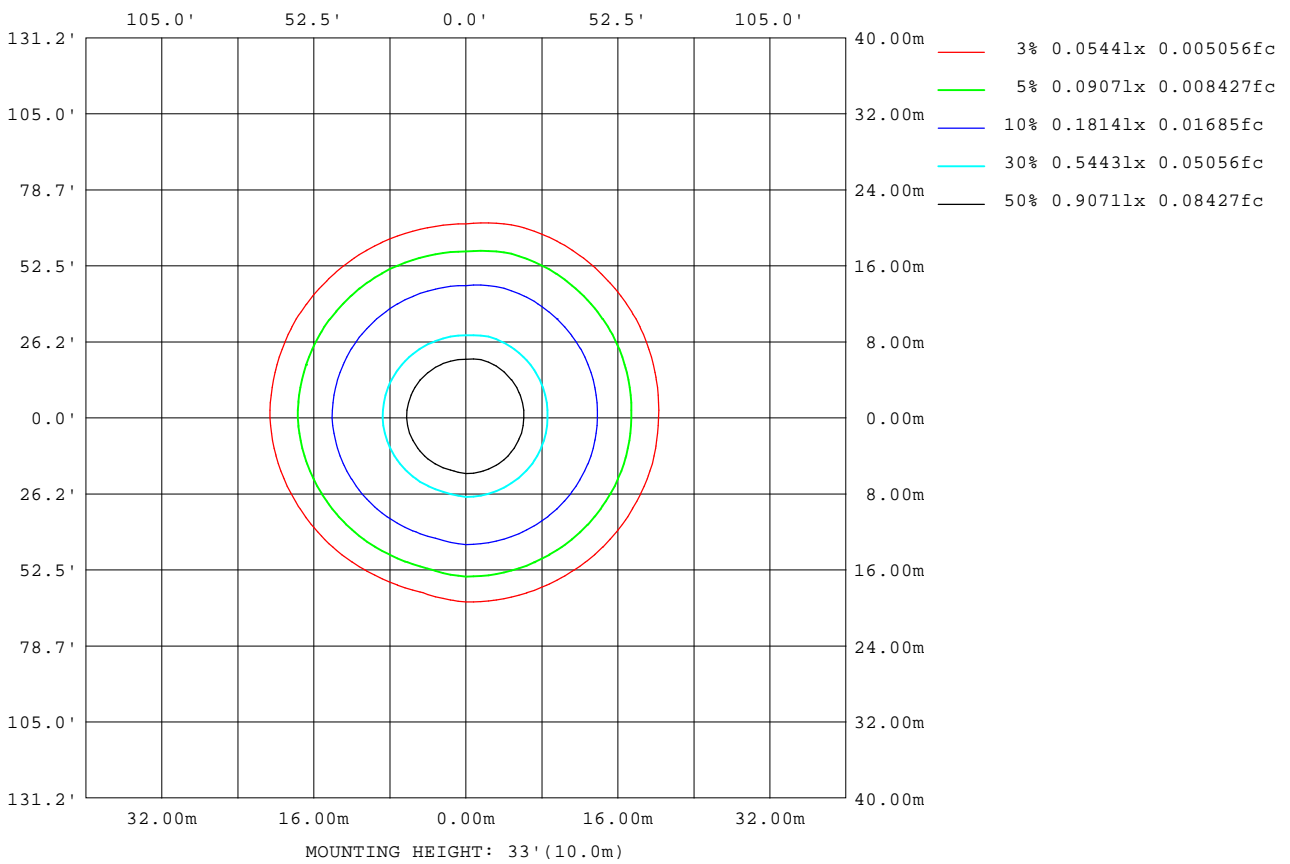
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:07 October 2020

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:120.02V I:0.0930A P:8.9234W PF:0.7999 Freq:59.98Hz Lamp Flux:488.089x1 lm		
NAME: ASD-UCS-18D8CC-XX 4000K	TYPE:	WEIGHT:
SPEC.:	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: 07 October 2020

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:120.02V I:0.0930A P:8.9234W PF:0.7999 Freq:59.98Hz Lamp Flux:488.089x1 lm		
NAME: ASD-UCS-18D8CC-XX 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

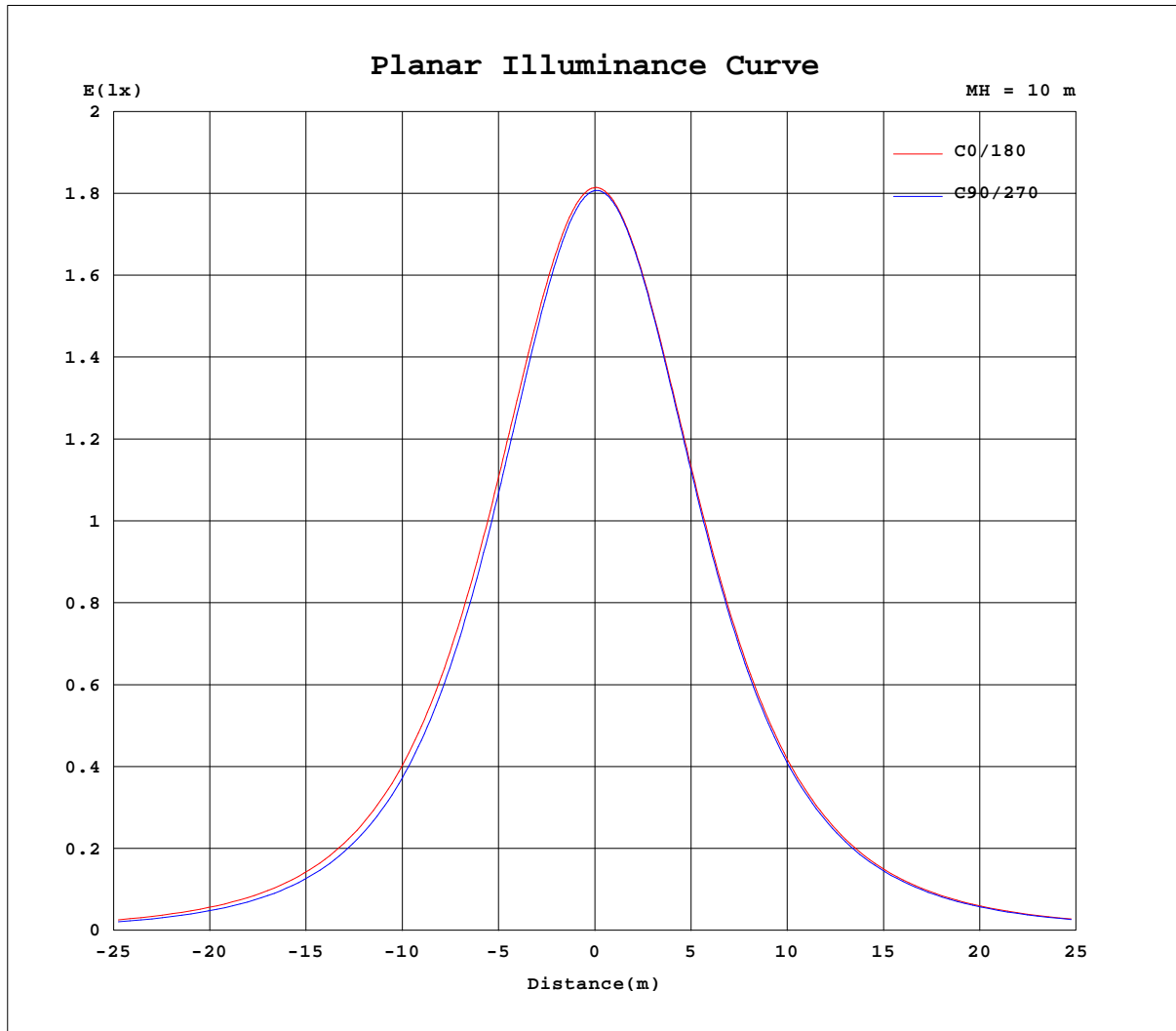
AvgL	cd/m2
L_0~180(65)av	288
L_0~180(75)av	248
L_0~180(85)av	186
L_90~270(65)av	261
L_90~270(75)av	209
L_90~270(85)av	87
L_45(65)av	274
L_45(75)av	228
L_45(85)av	127

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:07 October 2020

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: 07 October 2020

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:120.02V I:0.0930A P:8.9234W PF:0.7999 Freq:59.98Hz Lamp Flux:488.089x1 lm		
NAME: ASD-UCS-18D8CC-XX 4000K	TYPE:	WEIGHT:
SPEC.:	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	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181	181
5	180	180	179	179	179	179	179	178	179	179	179	180	181	181	181	181	181	181	181
10	177	176	176	176	176	175	175	174	174	175	176	177	178	178	179	179	179	178	178
15	172	171	171	170	170	170	169	167	168	169	171	172	174	174	175	174	174	174	174
20	165	165	164	163	163	162	162	159	160	162	164	166	168	168	169	168	168	168	168
25	157	157	155	155	154	153	153	149	151	153	156	158	161	161	161	161	161	160	160
30	148	147	146	145	143	143	142	139	140	143	146	149	152	152	152	152	151	151	151
35	137	137	135	134	132	132	131	127	129	132	135	139	142	142	142	142	141	140	140
40	126	125	123	122	120	119	119	114	116	120	123	127	131	131	131	130	130	129	129
45	114	113	111	109	108	106	106	101	103	107	111	115	118	119	119	118	117	116	116
50	101	100	97.9	96.3	94.2	93.1	92.2	87.7	89.7	93.6	97.5	102	105	106	106	105	104	103	103
55	87.4	86.5	84.3	82.5	80.4	79.2	78.4	73.8	75.8	79.7	83.6	88.1	91.7	91.9	92.0	91.0	90.3	89.4	89.3
60	73.4	72.5	70.2	68.4	66.2	65.1	64.2	59.5	61.5	65.4	69.3	73.8	77.4	77.6	77.8	76.7	76.2	75.2	75.1
65	59.1	58.1	55.8	54.1	51.9	50.7	49.9	45.3	47.2	50.9	54.7	59.1	62.6	62.9	63.0	62.1	61.5	60.7	60.6
70	44.7	43.8	41.6	39.8	37.7	36.6	35.7	31.3	33.1	36.6	40.2	44.4	47.9	48.1	48.3	47.4	46.9	46.1	46.1
75	30.9	29.9	27.8	26.1	24.1	23.0	22.2	18.2	19.7	23.0	26.3	30.2	33.4	33.6	33.8	33.0	32.6	31.8	31.9
80	18.1	17.4	15.3	13.7	11.8	10.9	10.0	6.82	8.16	10.9	13.7	17.2	20.1	20.2	20.4	19.5	19.2	18.3	18.5
85	7.55	6.68	4.80	3.35	2.09	1.57	1.24	0.16	0.30	1.28	3.28	6.25	8.68	8.73	8.46	7.37	6.93	6.20	6.34
90	0.13	0.12	0.11	0.10	0.09	0.08	0.08	0.10	0.10	0.11	0.11	0.12	0.09	0.05	0.04	0.03	0.02	0.02	0.02
95	0.18	0.17	0.17	0.15	0.15	0.14	0.14	0.16	0.16	0.16	0.17	0.17	0.10	0.10	0.09	0.08	0.07	0.07	0.06
100	0.25	0.24	0.23	0.22	0.22	0.21	0.21	0.24	0.24	0.23	0.23	0.23	0.16	0.16	0.15	0.14	0.13	0.13	0.12
105	0.33	0.31	0.31	0.30	0.29	0.29	0.29	0.32	0.32	0.31	0.31	0.30	0.24	0.23	0.22	0.20	0.20	0.19	0.19
110	0.42	0.40	0.39	0.38	0.37	0.37	0.37	0.40	0.40	0.39	0.38	0.38	0.32	0.30	0.28	0.27	0.26	0.25	0.25
115	0.50	0.48	0.47	0.46	0.44	0.44	0.44	0.47	0.47	0.47	0.46	0.46	0.39	0.36	0.35	0.34	0.33	0.32	0.32
120	0.57	0.54	0.54	0.51	0.51	0.50	0.50	0.54	0.53	0.52	0.53	0.52	0.44	0.43	0.41	0.39	0.38	0.38	0.39
125	0.62	0.59	0.59	0.57	0.56	0.56	0.56	0.59	0.58	0.58	0.58	0.57	0.49	0.47	0.45	0.45	0.43	0.43	0.43
130	0.64	0.62	0.63	0.61	0.60	0.60	0.60	0.63	0.63	0.62	0.62	0.59	0.51	0.49	0.48	0.49	0.48	0.48	0.48
135	0.64	0.63	0.65	0.65	0.63	0.64	0.64	0.67	0.66	0.67	0.64	0.61	0.52	0.50	0.49	0.50	0.50	0.51	0.52
140	0.63	0.63	0.66	0.69	0.68	0.67	0.67	0.70	0.71	0.69	0.64	0.60	0.52	0.49	0.49	0.50	0.53	0.54	0.54
145	0.62	0.61	0.65	0.70	0.72	0.73	0.72	0.74	0.73	0.69	0.63	0.60	0.51	0.48	0.47	0.49	0.52	0.54	0.57
150	0.60	0.60	0.62	0.68	0.72	0.75	0.75	0.75	0.72	0.65	0.60	0.58	0.49	0.46	0.44	0.46	0.50	0.54	0.57
155	0.57	0.58	0.60	0.63	0.69	0.74	0.74	0.71	0.64	0.60	0.57	0.56	0.46	0.44	0.44	0.41	0.44	0.49	0.53
160	0.54	0.57	0.56	0.57	0.61	0.65	0.64	0.61	0.58	0.54	0.53	0.53	0.44	0.42	0.40	0.39	0.40	0.42	0.43
165	0.49	0.52	0.53	0.53	0.55	0.57	0.55	0.54	0.52	0.50	0.49	0.48	0.40	0.39	0.38	0.39	0.39	0.40	0.39
170	0.49	0.51	0.54	0.53	0.51	0.51	0.51	0.51	0.50	0.49	0.49	0.48	0.42	0.41	0.40	0.40	0.40	0.40	0.41
175	0.48	0.50	0.53	0.53	0.51	0.52	0.52	0.50	0.51	0.49	0.47	0.46	0.43	0.43	0.42	0.44	0.44	0.43	0.43
180	0.49	0.49	0.50	0.52	0.51	0.50	0.51	0.50	0.50	0.52	0.50	0.50	0.49	0.49	0.50	0.53	0.51	0.50	0.51

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:07 October 2020

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:120.02V I:0.0930A P:8.9234W PF:0.7999 Freq:59.98Hz Lamp Flux:488.089x1 lm		
NAME: ASD-UCS-18D8CC-XX 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	181	181	181	181	181														
5	182	181	181	181	180														
10	180	180	179	178	177														
15	177	176	175	174	173														
20	171	171	170	169	167														
25	164	164	162	161	159														
30	155	155	154	152	150														
35	145	145	143	142	140														
40	134	134	132	131	129														
45	122	121	120	119	117														
50	109	109	107	106	104														
55	95.0	94.9	93.6	92.3	90.1														
60	80.9	80.8	79.4	78.3	76.0														
65	66.3	66.3	64.9	63.9	61.6														
70	51.7	51.5	50.3	49.3	47.2														
75	37.0	37.1	35.9	35.0	33.1														
80	23.1	23.4	22.4	21.7	20.0														
85	10.3	10.5	10.1	10.0	8.87														
90	0.26	0.27	0.22	0.18	0.09														
95	0.04	0.05	0.07	0.09	0.11														
100	0.10	0.11	0.12	0.14	0.17														
105	0.16	0.17	0.19	0.21	0.25														
110	0.23	0.24	0.26	0.28	0.32														
115	0.29	0.30	0.32	0.35	0.39														
120	0.35	0.36	0.39	0.42	0.46														
125	0.39	0.40	0.43	0.46	0.50														
130	0.45	0.44	0.47	0.49	0.52														
135	0.48	0.47	0.49	0.50	0.53														
140	0.51	0.51	0.50	0.50	0.52														
145	0.55	0.51	0.50	0.48	0.51														
150	0.54	0.50	0.47	0.47	0.49														
155	0.51	0.46	0.43	0.46	0.48														
160	0.43	0.41	0.41	0.43	0.46														
165	0.41	0.40	0.41	0.41	0.43														
170	0.41	0.41	0.42	0.45	0.46														
175	0.44	0.43	0.47	0.48	0.48														
180	0.50	0.50	0.51	0.50	0.50														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:07 October 2020

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: