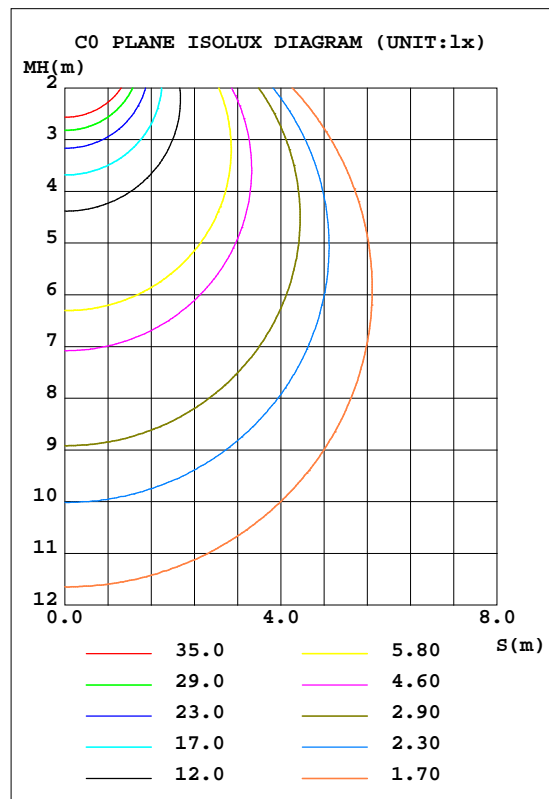
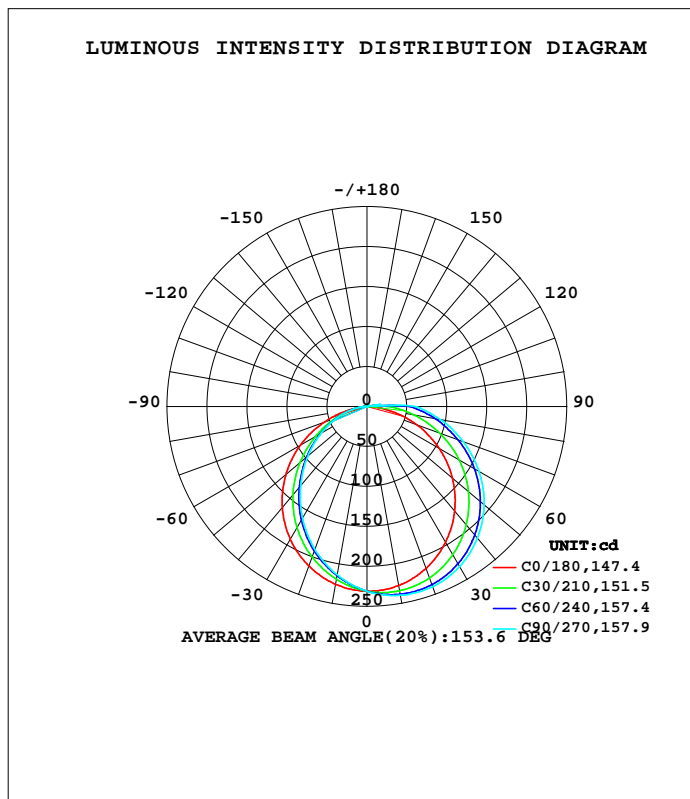


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.92V I:0.0920A P:10.621W PF:0.9631 Freq:59.98Hz Lamp Flux:715.45x1 lm		
NAME: ASD-UCB-18D8CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODIFIED-UCB-18D8CC-WH-5000K		Imax(cd)	241.0	S/MH(C0/180)	1.24
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.06
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	715.45	h UP, DN(C0-180)	1.6,60.5
NOMINAL FLUX(lm)	715.45	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.3,37.5
LAMPS INSIDE	1	h up(%)	2.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	98.0	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 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	227.3	236.6	239.6	235.4	225.9	216.7	214.0	218.0	0- 10	21.84	21.84	3.05,3.05
20	215.5	233.6	239.8	231.2	212.2	195.2	190.6	197.7	10- 20	62.53	84.37	11.8,11.8
30	196.4	221.9	231.5	218.3	192.0	167.6	161.3	171.3	20- 30	94.76	179.1	25,25
40	170.7	203.0	214.9	198.3	164.8	135.7	129.0	140.0	30- 40	114.5	293.6	41,41
50	139.6	177.5	191.3	171.7	132.4	101.5	96.46	105.7	40- 50	119.6	413.2	57.7,57.7
60	104.0	146.5	161.8	139.3	95.80	68.80	65.61	71.88	50- 60	110.3	523.5	73.2,73.2
70	65.82	111.2	127.8	103.0	56.29	38.38	37.95	40.07	60- 70	88.66	612.1	85.6,85.6
80	26.76	75.43	92.82	64.62	18.86	14.26	15.32	14.71	70- 80	59.23	671.4	93.8,93.8
90	0.6904	42.16	60.24	32.46	0.2916	0.9393	1.661	0.9578	80- 90	30.13	701.5	98,98
100	0.4705	5.142	16.12	2.046	0.4463	0.7216	0.8010	0.6450	90-100	8.219	709.7	99.2,99.2
110	0.8049	2.070	0.8851	0.8804	0.6652	0.9192	1.040	0.8309	100-110	1.545	711.3	99.4,99.4
120	1.000	1.140	1.191	0.9629	0.7777	0.8778	1.061	0.8397	110-120	1.095	712.3	99.6,99.6
130	1.033	1.808	0.9183	1.381	0.7551	0.8521	0.9198	0.7995	120-130	0.9209	713.3	99.7,99.7
140	0.9134	1.766	1.834	1.444	0.7136	0.8095	0.8232	0.7396	130-140	0.8795	714.1	99.8,99.8
150	0.8205	0.8516	2.461	0.7892	0.6501	0.7223	0.7921	0.6989	140-150	0.7078	714.9	99.9,99.9
160	0.6542	0.8294	0.6493	0.8113	0.5839	0.5499	0.6526	0.5713	150-160	0.3531	715.2	100,100
170	0.5566	0.7860	0.9718	0.7304	0.5181	0.4569	0.5255	0.5119	160-170	0.1877	715.4	100,100
180	0.5439	0.5510	0.5312	0.5466	0.5399	0.5501	0.5331	0.5494	170-180	0.0560	715.5	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 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:119.92V I:0.0920A P:10.621W PF:0.9631 Freq:59.98Hz Lamp Flux:715.45x1 lm										
NAME: ASD-UCB-18D8CC-WH-5000K					TYPE:0			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	10.6	12.2	10.9	12.4	12.7	12.3	13.8	12.6	14.0	14.3
3H	12.2	13.7	12.6	13.9	14.2	14.6	16.0	14.9	16.3	16.6
4H	12.9	14.2	13.2	14.5	14.8	15.8	17.2	16.2	17.5	17.8
6H	13.3	14.6	13.7	14.9	15.2	17.1	18.4	17.4	18.7	19.0
8H	13.4	14.7	13.8	15.0	15.3	17.7	19.0	18.1	19.3	19.6
12H	13.5	14.7	13.9	15.0	15.4	18.4	19.6	18.8	20.0	20.3
4H 2H	11.7	13.1	12.1	13.4	13.7	12.9	14.3	13.3	14.6	14.9
3H	13.6	14.8	14.0	15.1	15.5	15.5	16.7	15.9	17.0	17.4
4H	14.4	15.5	14.8	15.9	16.2	16.9	18.0	17.3	18.3	18.7
6H	15.0	16.0	15.5	16.4	16.8	18.4	19.3	18.8	19.7	20.1
8H	15.2	16.1	15.7	16.5	17.0	19.1	20.1	19.6	20.5	20.9
12H	15.4	16.2	15.8	16.6	17.1	20.0	20.9	20.5	21.3	21.7
8H 4H	15.2	16.1	15.7	16.5	17.0	17.3	18.2	17.7	18.6	19.0
6H	16.2	16.9	16.6	17.4	17.9	19.0	19.8	19.5	20.2	20.7
8H	16.6	17.2	17.0	17.7	18.2	20.0	20.7	20.5	21.1	21.6
12H	16.8	17.4	17.3	17.9	18.4	21.1	21.7	21.6	22.2	22.7
12H 4H	15.4	16.3	15.9	16.7	17.2	17.3	18.1	17.7	18.6	19.0
6H	16.6	17.3	17.1	17.7	18.2	19.1	19.8	19.6	20.3	20.8
8H	17.1	17.7	17.6	18.2	18.7	20.2	20.8	20.7	21.3	21.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.5					+ 0.2 / - 0.4				

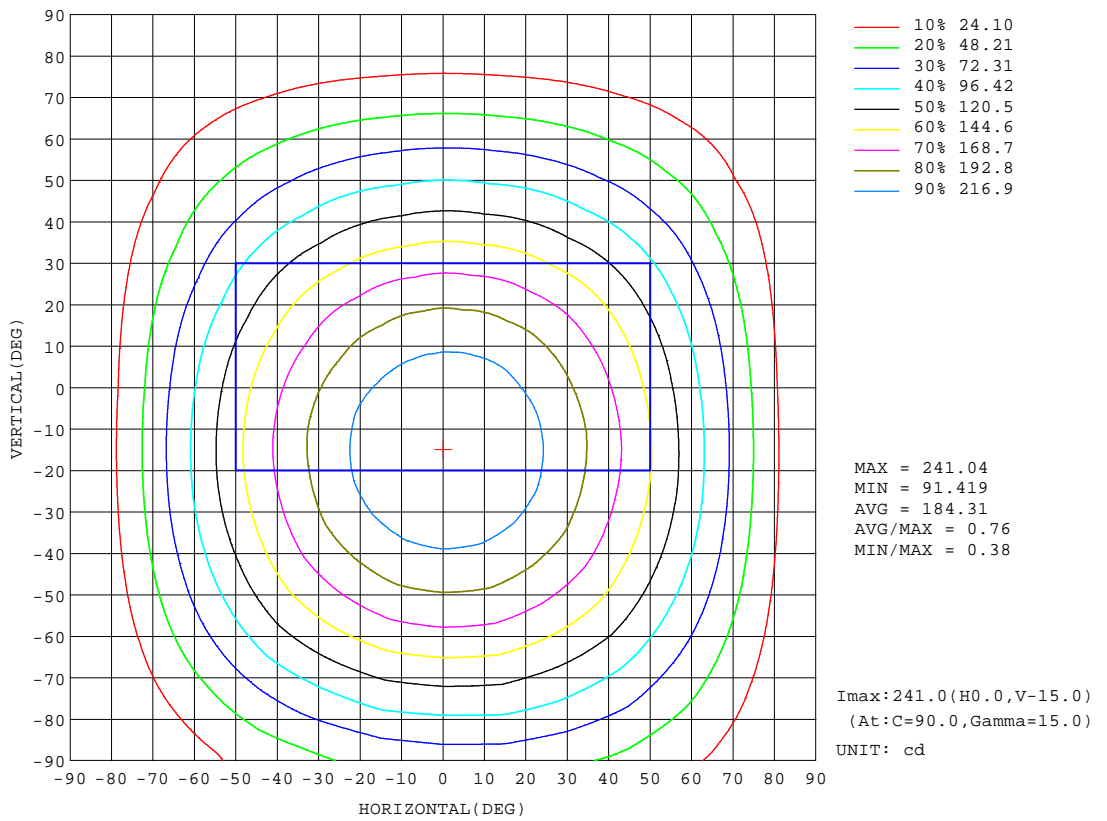
CIE Pub.117, 715.5 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.2)

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:119.92V I:0.0920A P:10.621W PF:0.9631 Freq:59.98Hz Lamp Flux:715.45x1 lm		
NAME: ASD-UCB-18D8CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



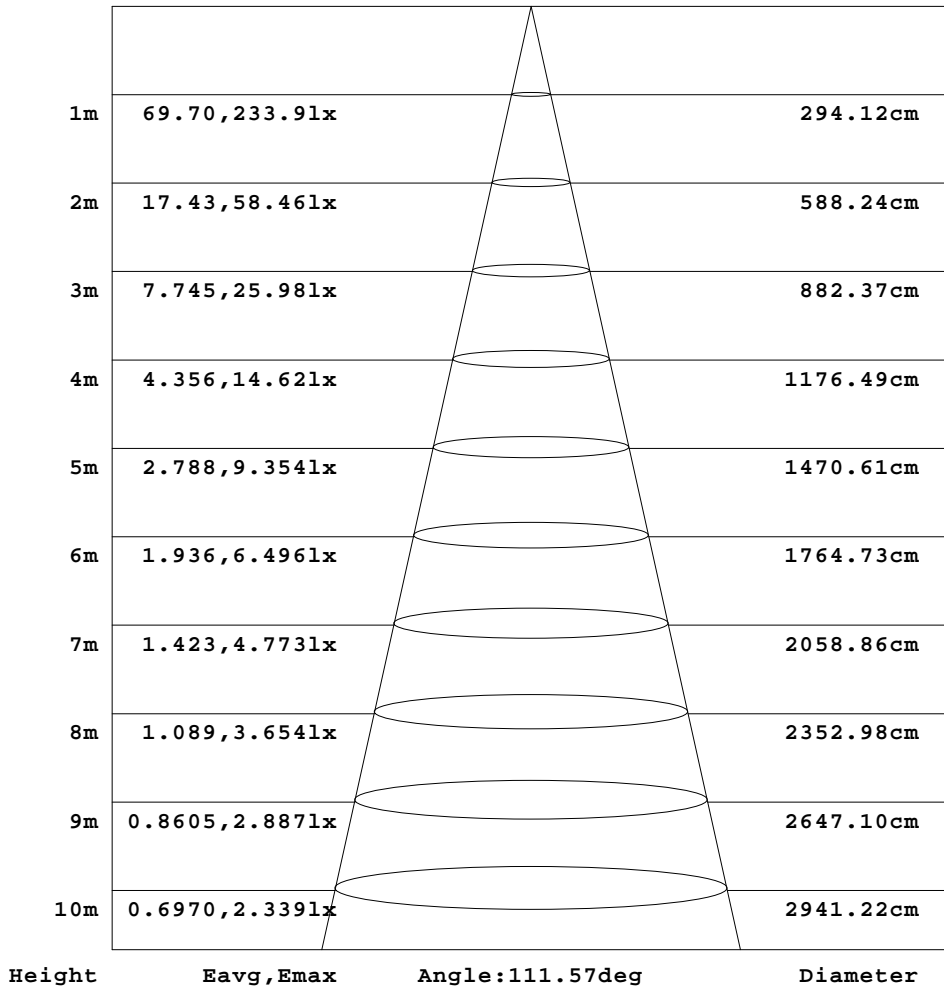
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:21 April 2021

g Range: 0 - 180DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:3.010m [K=1.0000]  
 Remarks:

**AAI Figure**

Test:U:119.92V I:0.0920A P:10.621W PF:0.9631 Freq:59.98Hz Lamp Flux:715.45x1 lm		
NAME: ASD-UCB-18D8CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:481.3 lm



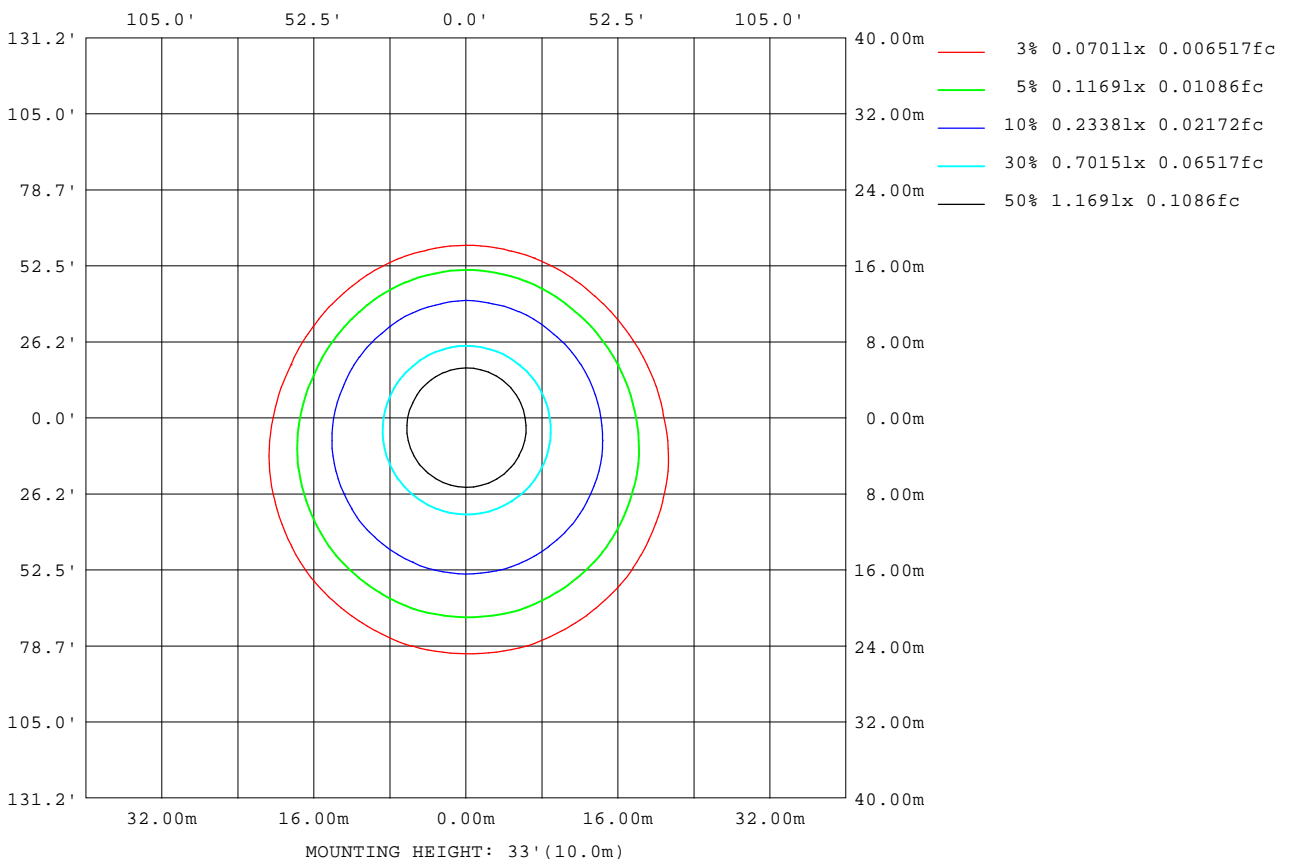
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 GO-SPEX500\_V1 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:3.010m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:119.92V I:0.0920A P:10.621W PF:0.9631 Freq:59.98Hz Lamp Flux:715.45x1 lm		
NAME: ASD-UCB-18D8CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:8W	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 GO-SPEX500\_V1 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:3.010m [K=1.0000]  
 Remarks:

LED Avg.L Report

Test:U:119.92V I:0.0920A P:10.621W PF:0.9631 Freq:59.98Hz Lamp Flux:715.45x1 lm		
NAME: ASD-UCB-18D8CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

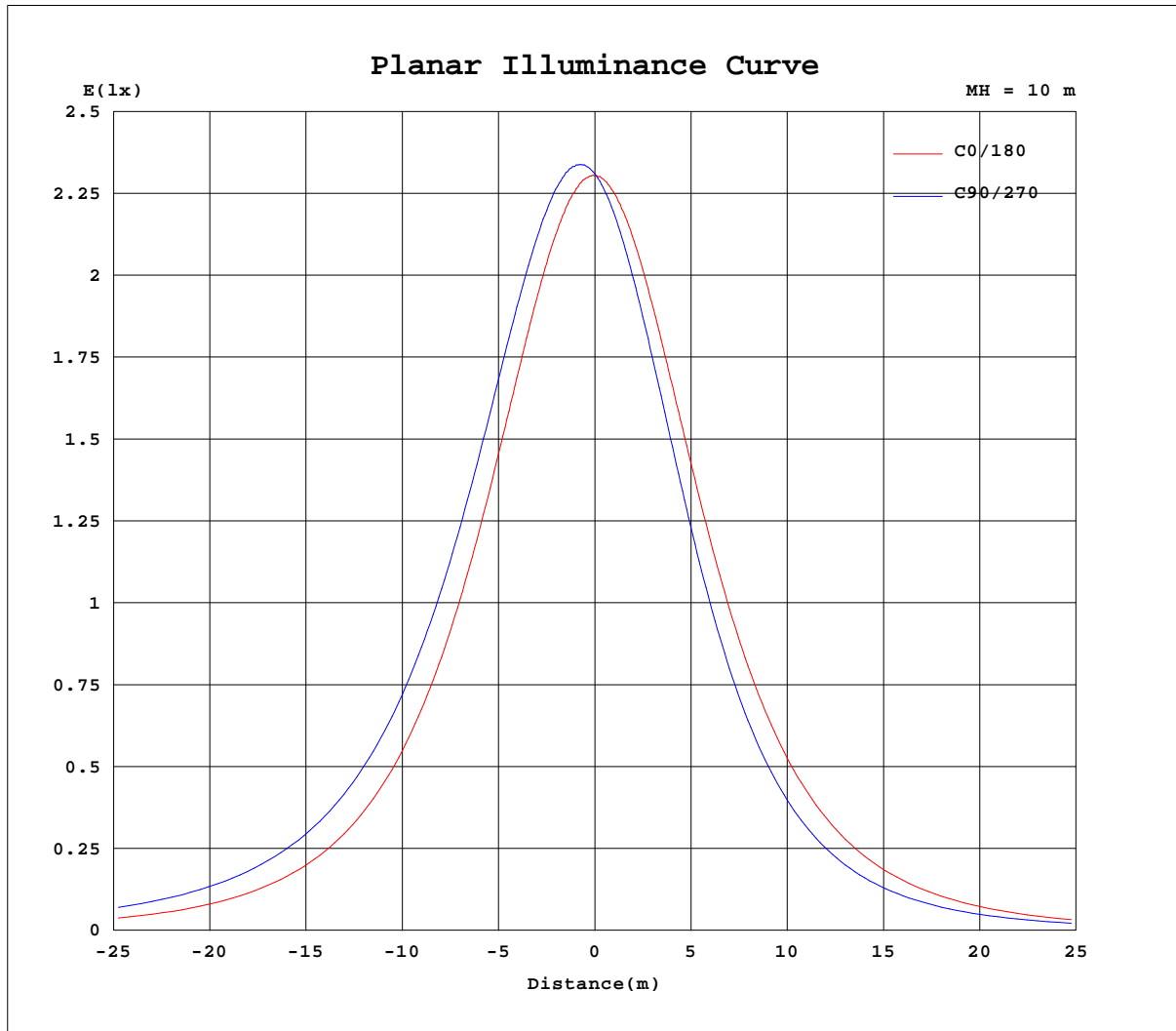
AvgL	cd/m2
L_0~180(65)av	381
L_0~180(75)av	319
L_0~180(85)av	178
L_90~270(65)av	465
L_90~270(75)av	527
L_90~270(85)av	947
L_45(65)av	425
L_45(75)av	440
L_45(85)av	664

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 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: 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:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.92V I:0.0920A P:10.621W PF:0.9631 Freq:59.98Hz Lamp Flux:715.45x1 lm		
NAME: ASD-UCB-18D8CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:8W	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	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231
5	230	232	234	235	236	236	236	236	235	234	233	231	229	228	226	225	224	224	223
10	227	231	234	237	238	240	240	239	237	235	232	229	226	222	219	217	215	214	214
15	222	228	232	236	239	241	241	240	237	234	230	225	220	215	211	207	205	203	203
20	216	222	228	234	237	240	240	239	235	231	225	219	212	206	200	195	193	190	191
25	207	215	222	229	233	237	237	235	231	226	218	211	203	194	189	182	179	176	177
30	196	206	214	222	227	231	231	230	225	218	210	201	192	182	175	168	164	161	161
35	184	195	205	213	219	224	224	222	216	209	199	190	179	168	160	152	148	145	145
40	171	183	193	203	210	215	215	212	206	198	187	177	165	153	144	136	132	129	129
45	156	169	180	191	198	204	204	201	194	186	173	162	149	136	127	119	115	112	113
50	140	154	166	177	185	191	191	189	181	172	158	146	132	119	110	101	98.6	95.8	96.5
55	122	137	150	163	171	177	177	174	166	156	142	129	114	100	91.7	84.9	82.4	80.7	80.7
60	104	120	133	146	155	162	162	159	150	139	124	111	95.8	81.9	73.9	68.8	66.8	65.5	65.6
65	84.7	101	115	129	138	146	145	142	132	122	106	91.7	76.2	63.2	56.7	53.0	51.8	51.0	51.2
70	65.8	82.0	96.3	111	121	128	128	125	114	103	86.1	71.7	56.3	44.8	40.6	38.4	38.0	37.6	38.0
75	45.9	62.1	77.6	92.6	103	111	111	107	95.9	83.7	67.4	51.5	36.6	28.0	26.1	25.2	25.6	25.5	25.9
80	26.8	42.2	58.6	75.4	86.2	93.9	92.8	89.7	79.0	64.6	47.3	31.8	18.9	14.1	14.2	14.3	14.9	14.8	15.3
85	10.2	24.4	41.6	57.2	68.8	76.0	75.8	71.6	60.2	46.9	29.3	14.0	5.33	4.64	5.20	5.59	6.21	6.40	6.68
90	0.69	11.9	26.9	42.2	52.9	60.1	60.2	55.8	45.3	32.5	17.1	3.91	0.29	0.40	0.67	0.94	1.34	1.53	1.66
95	0.32	1.74	9.85	10.2	11.9	17.3	13.1	12.7	9.90	9.09	3.51	0.50	0.33	0.42	0.47	0.55	0.60	0.63	0.62
100	0.47	0.76	1.93	5.14	12.7	14.5	16.1	13.4	5.81	2.05	1.10	0.43	0.45	0.59	0.64	0.72	0.75	0.80	0.80
105	0.62	0.69	1.41	2.22	2.67	2.69	0.68	1.15	1.23	1.16	0.76	0.76	0.54	0.67	0.79	0.86	0.91	0.97	0.97
110	0.80	1.02	1.08	2.07	2.33	2.39	0.89	1.13	1.01	0.88	0.79	0.96	0.67	0.75	0.83	0.92	1.01	1.05	1.04
115	0.93	1.40	1.04	1.47	2.17	2.56	1.50	1.42	0.72	0.64	1.11	1.03	0.74	0.80	0.88	0.93	1.02	1.07	1.07
120	1.00	1.49	1.18	1.14	1.45	1.95	1.19	0.98	0.56	0.96	1.41	1.11	0.78	0.85	0.91	0.88	0.99	1.05	1.06
125	1.06	1.49	1.21	1.48	1.24	1.24	0.61	0.74	0.88	1.36	1.15	1.10	0.78	0.82	0.86	0.86	0.89	0.99	1.02
130	1.03	1.31	1.32	1.81	1.66	1.41	0.92	1.21	1.45	1.38	1.33	1.02	0.76	0.77	0.82	0.85	0.89	0.93	0.92
135	0.98	1.16	1.34	2.00	1.97	1.88	1.53	1.71	1.81	1.25	1.16	0.93	0.74	0.74	0.78	0.84	0.84	0.87	0.88
140	0.91	1.03	1.19	1.77	2.59	2.17	1.83	2.18	1.96	1.44	0.99	0.85	0.71	0.70	0.76	0.81	0.82	0.82	0.82
145	0.87	0.93	1.03	1.78	2.31	2.70	2.61	2.36	1.83	0.88	0.87	0.84	0.68	0.68	0.71	0.76	0.80	0.81	0.83
150	0.82	0.84	0.89	0.85	1.11	2.33	2.46	2.26	0.69	0.79	0.73	0.81	0.65	0.64	0.65	0.72	0.72	0.77	0.79
155	0.74	0.78	0.85	0.82	0.81	0.78	0.67	0.69	0.68	0.85	0.82	0.73	0.61	0.61	0.60	0.63	0.69	0.71	0.74
160	0.65	0.78	0.93	0.83	0.93	0.71	0.65	0.79	0.85	0.81	0.77	0.65	0.58	0.59	0.57	0.55	0.57	0.63	0.65
165	0.57	0.72	0.80	0.88	0.76	0.81	0.78	0.76	0.89	0.79	0.69	0.50	0.53	0.53	0.51	0.52	0.51	0.53	0.54
170	0.56	0.66	0.78	0.79	0.86	0.95	0.97	0.83	0.79	0.73	0.66	0.50	0.52	0.50	0.47	0.46	0.49	0.51	0.53
175	0.53	0.56	0.58	0.65	0.64	0.76	0.76	0.74	0.70	0.56	0.50	0.49	0.50	0.48	0.46	0.47	0.48	0.49	0.49
180	0.54	0.53	0.54	0.55	0.53	0.53	0.53	0.52	0.53	0.55	0.54	0.54	0.54	0.53	0.54	0.55	0.53	0.53	0.53

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.92V I:0.0920A P:10.621W PF:0.9631 Freq:59.98Hz Lamp Flux:715.45x1 lm		
NAME: ASD-UCB-18D8CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2 UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	231	231	231	231	231														
5	223	225	226	227	229														
10	214	216	218	221	224														
15	203	206	209	213	218														
20	191	194	198	203	209														
25	177	181	185	192	199														
30	162	167	171	179	187														
35	146	151	156	165	174														
40	130	135	140	150	159														
45	113	118	123	133	143														
50	96.8	101	106	116	126														
55	81.4	84.5	88.2	97.6	108														
60	66.1	68.4	71.9	79.3	89.8														
65	51.5	53.1	55.5	61.2	71.4														
70	37.9	38.9	40.1	43.9	52.0														
75	25.7	26.1	26.3	28.2	33.3														
80	15.1	15.3	14.7	15.2	17.1														
85	6.51	6.50	6.07	5.74	5.55														
90	1.51	1.40	0.96	0.65	0.54														
95	0.59	0.53	0.46	0.37	0.43														
100	0.76	0.69	0.65	0.53	0.55														
105	0.92	0.83	0.77	0.66	0.66														
110	1.01	0.92	0.83	0.73	0.75														
115	1.03	0.95	0.86	0.79	0.82														
120	1.00	0.91	0.84	0.83	0.89														
125	0.90	0.83	0.82	0.82	0.88														
130	0.89	0.83	0.80	0.76	0.85														
135	0.83	0.80	0.79	0.75	0.82														
140	0.78	0.79	0.74	0.72	0.79														
145	0.80	0.75	0.73	0.68	0.76														
150	0.74	0.72	0.70	0.65	0.74														
155	0.71	0.68	0.62	0.62	0.70														
160	0.62	0.58	0.57	0.59	0.68														
165	0.54	0.54	0.54	0.55	0.62														
170	0.51	0.49	0.51	0.56	0.61														
175	0.47	0.48	0.50	0.54	0.59														
180	0.52	0.53	0.55	0.54	0.54														

C Range: 0 - 360DEG	g Range: 0 - 180DEG
C Interval: 15.0DEG	g Interval: 0.5DEG
Test Speed: MEDIUM	Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:3.010m [K=1.0000]
Test Date:21 April 2021	Remarks: