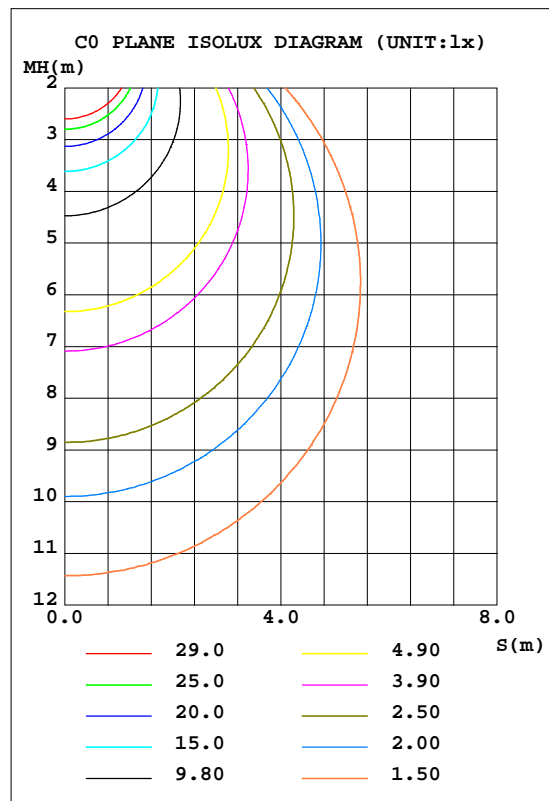
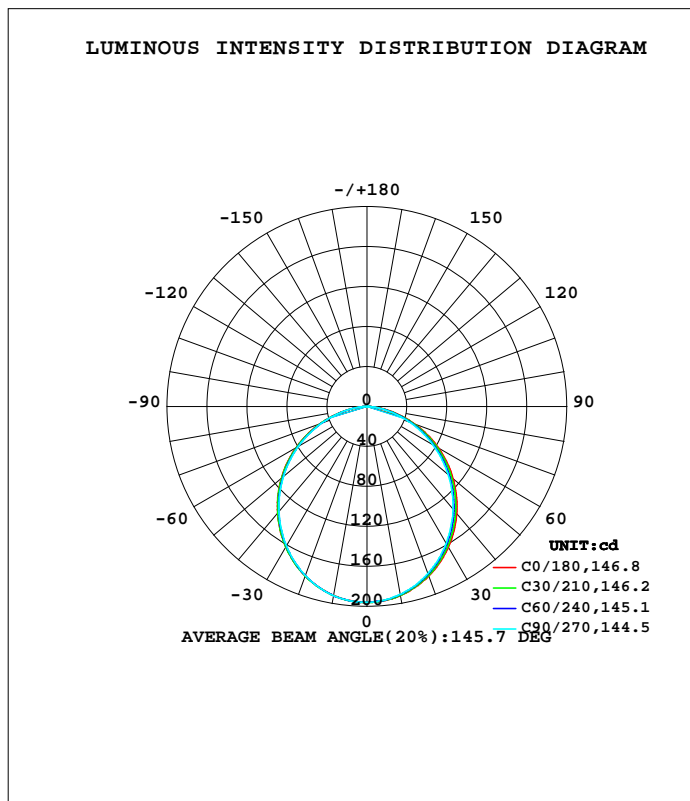


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.07V I:0.0733A P:8.5591W PF:0.9722 Freq:59.98Hz Lamp Flux:533.391x1 lm		
NAME: ASD-UCL-18D8CC-3000K	TYPE:	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ASD-UCL-18D8CC-3000K	Imax(cd)	196.3	S/MH(C0/180)	1.24
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	533.39	h UP, DN(C0-180)	0.3,49.4
NOMINAL FLUX(lm)	533.391	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.2,50.1
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=1.0664]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	192.0	191.5	191.0	191.4	192.0	192.1	192.1	192.1	0- 10	18.51	18.51	3.47,3.47
20	180.5	179.3	178.1	179.1	180.4	180.3	180.2	180.8	10- 20	52.67	71.18	13.3,13.3
30	162.9	160.6	158.6	160.4	162.4	161.7	161.2	162.0	20- 30	78.90	150.1	28.1,28.1
40	139.8	137.0	134.0	136.6	139.2	137.8	137.1	138.3	30- 40	93.76	243.8	45.7,45.7
50	112.7	109.5	106.1	109.0	111.9	110.2	109.1	110.9	40- 50	95.73	339.6	63.7,63.7
60	82.49	79.35	75.96	78.72	81.61	79.80	78.86	80.67	50- 60	84.98	424.5	79.6,79.6
70	50.53	47.94	44.95	47.18	49.61	48.02	47.40	48.98	60- 70	63.23	487.8	91.4,91.4
80	20.33	18.67	16.25	18.02	19.53	18.45	18.22	19.38	70- 80	34.71	522.5	98,98
90	0.5170	0.4235	0.1435	0.4184	0.3368	0.3837	0.1758	0.4305	80- 90	8.294	530.8	99.5,99.5
100	0.2756	0.2503	0.2520	0.2597	0.1975	0.1913	0.1837	0.2017	90-100	0.2301	531.0	99.6,99.6
110	0.4393	0.4053	0.4177	0.4075	0.3396	0.2937	0.3136	0.3056	100-110	0.3114	531.3	99.6,99.6
120	0.5788	0.5272	0.5350	0.5198	0.4459	0.3806	0.3942	0.3964	110-120	0.4134	531.7	99.7,99.7
130	0.6407	0.5907	0.6282	0.5799	0.4874	0.4423	0.4828	0.4565	120-130	0.4519	532.2	99.8,99.8
140	0.6231	0.6101	0.6198	0.6095	0.4688	0.4734	0.5134	0.4847	130-140	0.4197	532.6	99.9,99.9
150	0.5816	0.6548	0.6375	0.6386	0.4266	0.4158	0.5706	0.4351	140-150	0.3442	533.0	99.9,99.9
160	0.5520	0.5734	0.6510	0.5425	0.3853	0.4000	0.4322	0.4273	150-160	0.2453	533.2	100,100
170	0.5231	0.5418	0.5235	0.4922	0.4059	0.4232	0.4625	0.4483	160-170	0.1377	533.3	100,100
180	0.4935	0.4984	0.4632	0.5045	0.4924	0.4991	0.4597	0.5002	170-180	0.0459	533.4	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=1.0664]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.07V I:0.0733A P:8.5591W PF:0.9722 Freq:59.98Hz Lamp Flux:533.391x1 lm										
NAME: ASD-UCL-18D8CC-3000K					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	9.1	10.6	9.4	10.8	11.0	8.8	10.3	9.0	10.5	10.7
3H	10.6	12.0	10.9	12.2	12.5	10.1	11.5	10.4	11.8	12.0
4H	11.2	12.5	11.5	12.7	13.0	10.6	12.0	11.0	12.2	12.5
6H	11.6	12.8	11.9	13.1	13.4	10.9	12.2	11.3	12.5	12.8
8H	11.7	12.9	12.0	13.2	13.5	11.0	12.2	11.4	12.5	12.8
12H	11.7	12.9	12.1	13.2	13.5	11.0	12.2	11.4	12.5	12.8
4H 2H	9.6	11.0	10.0	11.2	11.5	9.4	10.7	9.7	11.0	11.2
3H	11.3	12.5	11.7	12.8	13.1	10.9	12.1	11.3	12.4	12.7
4H	12.0	13.1	12.4	13.4	13.7	11.5	12.6	11.9	12.9	13.3
6H	12.5	13.5	12.9	13.8	14.2	12.0	12.9	12.4	13.3	13.6
8H	12.7	13.6	13.1	13.9	14.3	12.1	12.9	12.5	13.3	13.7
12H	12.8	13.6	13.2	14.0	14.4	12.1	12.9	12.5	13.3	13.7
8H 4H	12.2	13.1	12.6	13.5	13.9	11.8	12.7	12.2	13.0	13.4
6H	12.9	13.6	13.3	14.0	14.4	12.3	13.1	12.8	13.5	13.9
8H	13.1	13.8	13.6	14.2	14.6	12.5	13.2	13.0	13.6	14.0
12H	13.3	13.8	13.8	14.3	14.8	12.6	13.2	13.1	13.6	14.1
12H 4H	12.2	13.0	12.6	13.4	13.8	11.8	12.6	12.2	13.0	13.4
6H	12.9	13.5	13.4	14.0	14.4	12.4	13.0	12.9	13.5	13.9
8H	13.2	13.7	13.7	14.2	14.7	12.6	13.1	13.1	13.6	14.1
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				

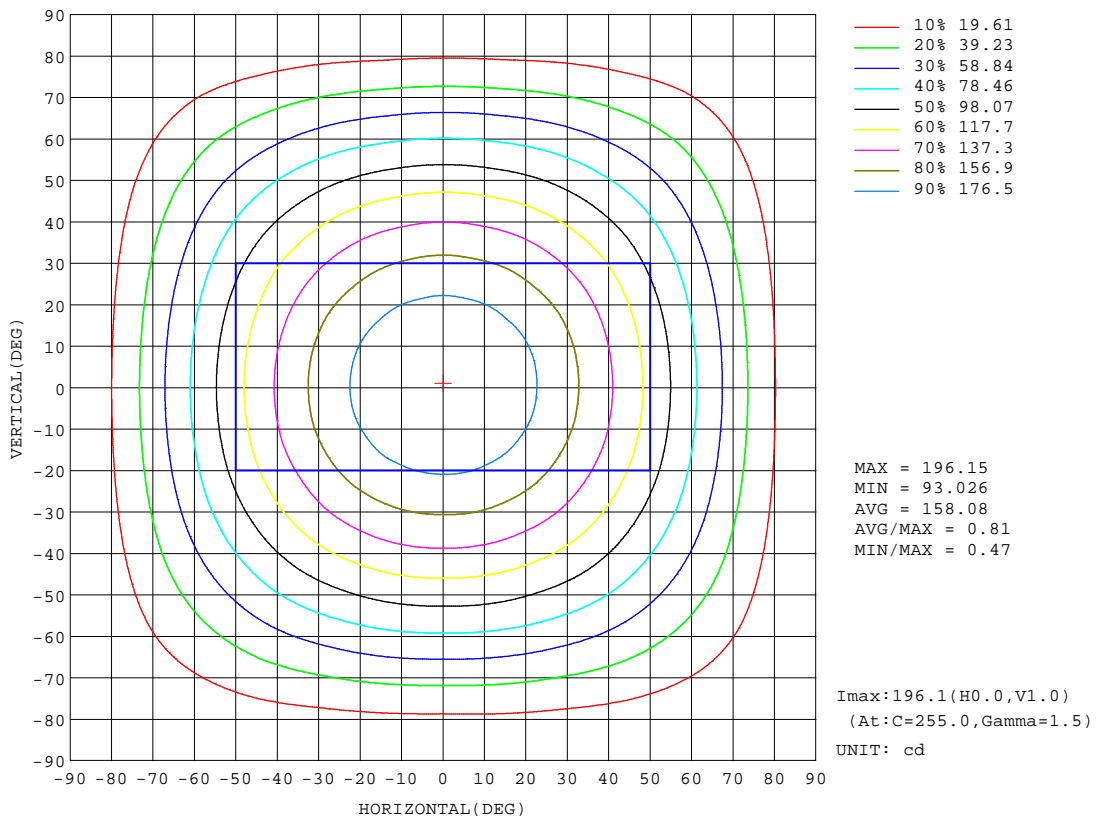
CIE Pub.117, 533.4 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.2)

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=1.0664]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.07V I:0.0733A P:8.5591W PF:0.9722 Freq:59.98Hz Lamp Flux:533.391x1 lm		
NAME: ASD-UCL-18D8CC-3000K	TYPE:	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



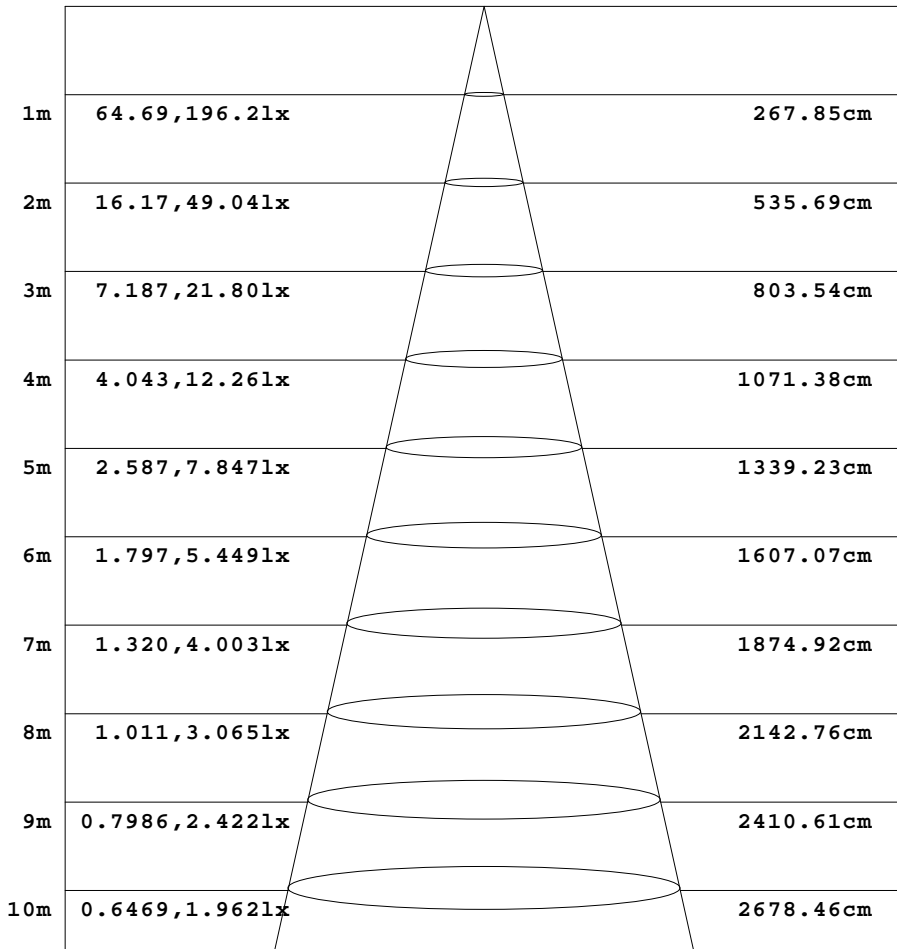
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 March 2021

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=1.0664]  
 Remarks:

**AAI Figure**

Test:U:120.07V I:0.0733A P:8.5591W PF:0.9722 Freq:59.98Hz Lamp Flux:533.391x1 lm		
NAME: ASD-UCL-18D8CC-3000K	TYPE:	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:371.2 lm



Height                      Eavg, Emax                      Angle:106.50deg                      Diameter

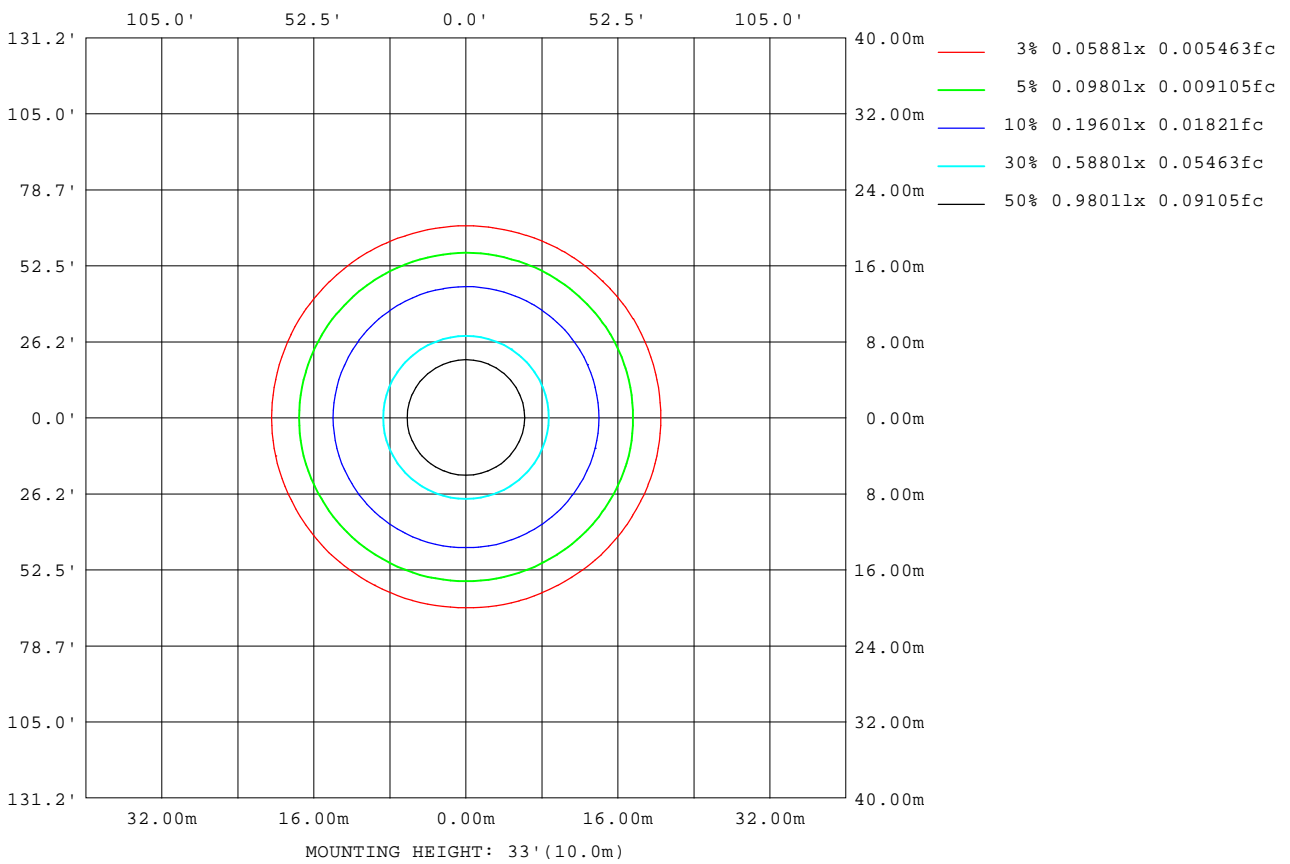
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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=1.0664]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:120.07V I:0.0733A P:8.5591W PF:0.9722 Freq:59.98Hz Lamp Flux:533.391x1 lm		
NAME: ASD-UCL-18D8CC-3000K	TYPE:	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: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=1.0664]  
 Remarks:

LED Avg.L Report

Test:U:120.07V I:0.0733A P:8.5591W PF:0.9722 Freq:59.98Hz Lamp Flux:533.391x1 lm		
NAME: ASD-UCL-18D8CC-3000K	TYPE:	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

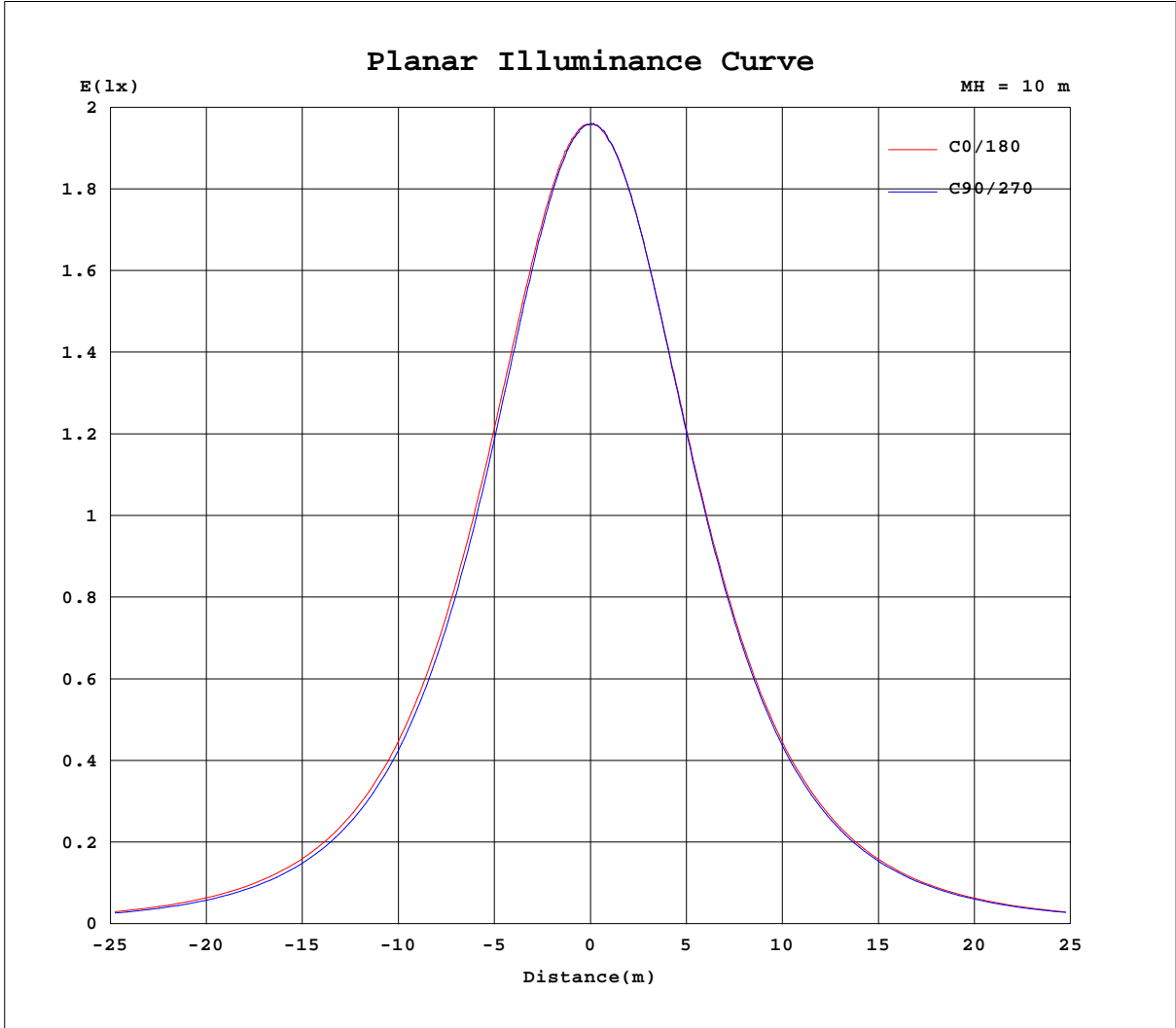
AvgL	cd/m2
L_0~180(65)av	313
L_0~180(75)av	265
L_0~180(85)av	183
L_90~270(65)av	292
L_90~270(75)av	240
L_90~270(85)av	129
L_45(65)av	302
L_45(75)av	253
L_45(85)av	155

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=1.0664]  
 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=1.0664]  
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.0733A P:8.5591W PF:0.9722 Freq:59.98Hz Lamp Flux:533.391x1 lm		
NAME: ASD-UCL-18D8CC-3000K	TYPE:	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	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196	196
5	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195
10	192	192	192	191	191	191	191	191	191	191	192	192	192	192	192	192	192	192	192
15	187	187	187	186	186	186	186	186	186	186	186	186	187	187	187	187	187	187	187
20	181	181	180	179	179	179	178	178	179	179	179	180	180	180	181	180	180	180	180
25	173	172	171	171	170	170	169	169	170	171	171	172	172	172	172	172	172	171	171
30	163	163	162	161	159	159	159	159	159	160	161	162	162	162	162	162	161	161	161
35	152	152	150	149	148	148	147	147	148	149	150	151	151	151	151	151	150	150	150
40	140	139	138	137	135	135	134	134	135	137	137	139	139	139	139	138	137	137	137
45	127	126	125	124	122	121	120	121	122	123	124	126	126	126	126	125	124	123	124
50	113	112	111	110	108	107	106	107	107	109	110	112	112	112	111	110	110	109	109
55	97.9	97.7	95.9	94.7	92.8	92.3	91.3	91.9	92.6	94.1	95.2	96.5	97.1	96.8	96.7	95.3	94.7	94.2	94.3
60	82.5	82.2	80.5	79.3	77.5	77.0	76.0	76.5	77.1	78.7	79.7	81.1	81.6	81.3	81.0	79.8	79.3	78.5	78.9
65	66.7	66.4	64.8	63.7	61.9	61.4	60.5	61.0	61.5	63.0	63.8	65.2	65.6	65.4	65.1	63.9	63.5	62.9	63.1
70	50.5	50.4	48.9	47.9	46.4	45.8	44.9	45.5	45.9	47.2	47.9	49.2	49.6	49.2	49.0	48.0	47.8	47.1	47.4
75	34.8	34.7	33.5	32.7	31.2	30.8	30.0	30.4	30.7	31.9	32.4	33.5	33.8	33.5	33.5	32.6	32.4	31.8	32.1
80	20.3	20.5	19.4	18.7	17.4	17.1	16.2	16.7	16.8	18.0	18.4	19.4	19.5	19.1	19.3	18.4	18.4	17.8	18.2
85	8.32	8.35	7.28	6.64	5.84	5.56	5.10	5.30	5.49	6.25	6.81	7.51	7.59	7.44	7.36	6.65	6.38	5.93	6.17
90	0.52	0.46	0.52	0.42	0.32	0.14	0.14	0.12	0.29	0.42	0.46	0.41	0.34	0.50	0.40	0.38	0.29	0.20	0.18
95	0.21	0.20	0.20	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.20	0.20	0.13	0.14	0.16	0.16	0.14	0.14	0.16
100	0.28	0.27	0.26	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.27	0.27	0.20	0.19	0.19	0.19	0.18	0.19	0.18
105	0.36	0.34	0.34	0.33	0.33	0.33	0.34	0.33	0.34	0.34	0.34	0.34	0.27	0.26	0.25	0.24	0.24	0.25	0.25
110	0.44	0.42	0.41	0.41	0.41	0.41	0.42	0.41	0.41	0.41	0.41	0.42	0.34	0.32	0.30	0.29	0.29	0.30	0.31
115	0.51	0.49	0.48	0.47	0.47	0.47	0.48	0.47	0.47	0.47	0.48	0.48	0.40	0.37	0.35	0.34	0.33	0.34	0.36
120	0.58	0.55	0.54	0.53	0.53	0.53	0.54	0.52	0.53	0.52	0.53	0.54	0.45	0.42	0.39	0.38	0.37	0.39	0.39
125	0.63	0.59	0.58	0.56	0.57	0.58	0.59	0.57	0.56	0.55	0.57	0.58	0.49	0.45	0.43	0.42	0.40	0.42	0.44
130	0.64	0.62	0.60	0.59	0.59	0.61	0.63	0.60	0.59	0.58	0.60	0.60	0.49	0.47	0.45	0.44	0.43	0.45	0.48
135	0.64	0.62	0.61	0.60	0.60	0.63	0.63	0.61	0.60	0.60	0.61	0.60	0.49	0.47	0.45	0.45	0.46	0.47	0.50
140	0.62	0.60	0.63	0.61	0.61	0.61	0.62	0.60	0.60	0.61	0.62	0.59	0.47	0.45	0.44	0.47	0.46	0.49	0.51
145	0.60	0.60	0.63	0.64	0.62	0.63	0.63	0.60	0.62	0.63	0.62	0.59	0.45	0.45	0.44	0.46	0.50	0.51	0.53
150	0.58	0.59	0.61	0.65	0.66	0.65	0.64	0.62	0.64	0.64	0.59	0.58	0.43	0.43	0.42	0.42	0.49	0.55	0.57
155	0.57	0.59	0.58	0.62	0.66	0.70	0.69	0.67	0.63	0.61	0.57	0.57	0.40	0.41	0.43	0.40	0.41	0.47	0.50
160	0.55	0.57	0.56	0.57	0.62	0.65	0.65	0.63	0.59	0.54	0.53	0.55	0.39	0.39	0.40	0.40	0.41	0.44	0.43
165	0.52	0.54	0.55	0.55	0.55	0.57	0.57	0.55	0.53	0.50	0.50	0.50	0.37	0.37	0.38	0.41	0.44	0.45	0.44
170	0.52	0.53	0.55	0.54	0.53	0.55	0.52	0.52	0.51	0.49	0.49	0.49	0.41	0.39	0.40	0.42	0.45	0.46	0.46
175	0.50	0.53	0.53	0.52	0.53	0.50	0.50	0.51	0.51	0.50	0.47	0.46	0.43	0.42	0.42	0.45	0.46	0.47	0.45
180	0.49	0.49	0.50	0.50	0.49	0.46	0.46	0.46	0.48	0.50	0.49	0.48	0.49	0.49	0.50	0.50	0.49	0.47	0.46

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=1.0664]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.0733A P:8.5591W PF:0.9722 Freq:59.98Hz Lamp Flux:533.391x1 lm		
NAME: ASD-UCL-18D8CC-3000K	TYPE:	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	196	196	196	196	196														
5	195	195	195	195	195														
10	192	192	192	192	192														
15	187	187	187	188	187														
20	180	180	181	181	181														
25	171	172	172	173	173														
30	161	162	162	163	163														
35	149	151	151	152	152														
40	137	138	138	139	140														
45	123	125	125	126	127														
50	109	110	111	112	113														
55	94.3	95.4	96.1	97.4	97.8														
60	78.8	80.0	80.7	82.1	82.4														
65	63.2	64.3	64.8	66.3	66.6														
70	47.4	48.5	49.0	50.3	50.5														
75	32.1	33.1	33.5	34.7	34.8														
80	18.1	19.2	19.4	20.4	20.4														
85	6.28	7.01	7.48	8.31	8.33														
90	0.24	0.34	0.43	0.50	0.56														
95	0.18	0.18	0.18	0.18	0.14														
100	0.21	0.20	0.20	0.20	0.20														
105	0.25	0.25	0.26	0.25	0.26														
110	0.31	0.31	0.31	0.31	0.33														
115	0.35	0.35	0.35	0.36	0.39														
120	0.39	0.38	0.40	0.42	0.44														
125	0.42	0.41	0.43	0.44	0.47														
130	0.46	0.45	0.46	0.47	0.49														
135	0.50	0.47	0.46	0.47	0.49														
140	0.51	0.47	0.48	0.46	0.47														
145	0.53	0.51	0.48	0.46	0.47														
150	0.57	0.51	0.44	0.45	0.46														
155	0.49	0.43	0.43	0.45	0.44														
160	0.46	0.43	0.43	0.43	0.43														
165	0.46	0.45	0.44	0.43	0.41														
170	0.49	0.45	0.45	0.45	0.44														
175	0.43	0.46	0.47	0.48	0.47														
180	0.46	0.48	0.50	0.49	0.48														

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=1.0664]
Test Date:10 March 2021	Remarks: