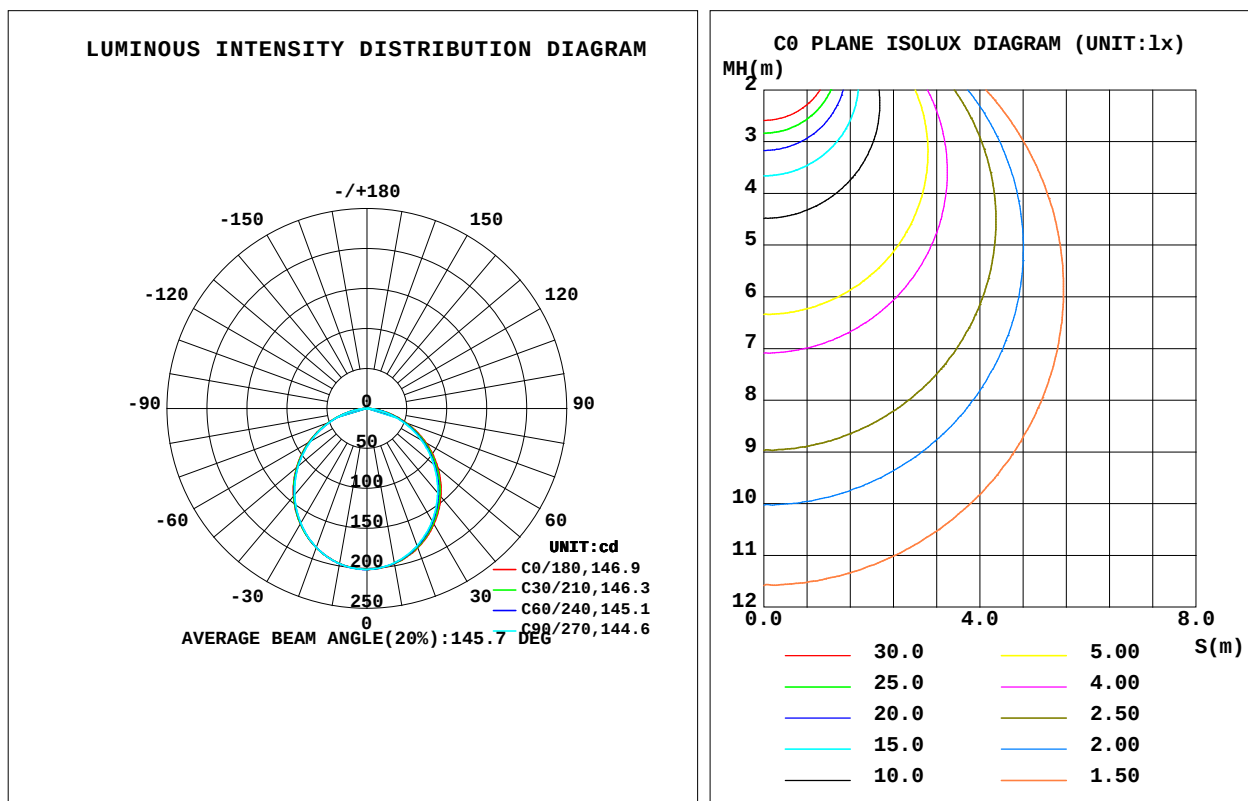


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.08V I:0.0730A P:8.5168W PF:0.9714 Freq:59.98Hz Lamp Flux:548.197x1 lm		
NAME: ASD-UCL-18D8CC-4000K	TYPE:	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 64.37 lm/W			
MODEL	ASD-UCL-18D8CC-4000K	I _{max} (cd)	201.5	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)	548.20	h UP, DN(C0-180)	0.3,49.4
NOMINAL FLUX(lm)	548.197	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 G0-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	197.0	196.9	196.2	196.4	197.1	197.3	197.3	197.3	0- 10	19.00	19.00	3.47, 3.47
20	185.5	184.4	182.7	183.9	185.3	185.0	184.9	185.3	10- 20	54.09	73.09	13.3, 13.3
30	167.3	165.0	162.8	164.7	166.7	166.0	165.6	166.3	20- 30	81.05	154.1	28.1, 28.1
40	143.7	140.6	137.7	140.1	142.9	141.7	140.9	142.2	30- 40	96.34	250.5	45.7, 45.7
50	116.1	112.5	109.1	111.9	114.9	113.3	112.4	114.0	40- 50	98.39	348.9	63.6, 63.6
60	84.94	81.61	78.14	80.84	83.91	82.10	81.21	82.91	50- 60	87.37	436.2	79.6, 79.6
70	52.05	49.34	46.20	48.43	50.95	49.39	48.94	50.45	60- 70	65.04	501.3	91.4, 91.4
80	20.99	19.28	16.65	18.44	20.02	18.99	18.86	20.01	70- 80	35.71	537.0	98, 98
90	0.5372	0.4363	0.1506	0.4223	0.3448	0.3926	0.1835	0.4397	80- 90	8.537	545.5	99.5, 99.5
100	0.2842	0.2628	0.2593	0.2678	0.2017	0.1959	0.1864	0.2087	90-100	0.2360	545.8	99.6, 99.6
110	0.4524	0.4169	0.4274	0.4173	0.3481	0.3050	0.3204	0.3115	100-110	0.3200	546.1	99.6, 99.6
120	0.5957	0.5431	0.5550	0.5391	0.4573	0.3940	0.4073	0.4050	110-120	0.4251	546.5	99.7, 99.7
130	0.6578	0.6104	0.6479	0.5972	0.5052	0.4553	0.4947	0.4642	120-130	0.4647	547.0	99.8, 99.8
140	0.6343	0.6298	0.6360	0.6303	0.4848	0.4856	0.5296	0.4908	130-140	0.4316	547.4	99.9, 99.9
150	0.5969	0.6693	0.6578	0.6531	0.4430	0.4240	0.5880	0.4425	140-150	0.3537	547.8	99.9, 99.9
160	0.5644	0.5866	0.6731	0.5597	0.3970	0.4155	0.4444	0.4328	150-160	0.2520	548.0	100, 100
170	0.5331	0.5572	0.5426	0.5054	0.4185	0.4415	0.4788	0.4522	160-170	0.1414	548.2	100, 100
180	0.5105	0.5163	0.4742	0.5180	0.5098	0.5153	0.4749	0.5152	170-180	0.0471	548.2	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 G0-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.010m [K=1.0664]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.08V I:0.0730A P:8.5168W PF:0.9714 Freq:59.98Hz Lamp Flux:548.197x1 lm											
NAME: ASD-UCL-18D8CC-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	9.2	10.7	9.5	10.9	11.1	8.9	10.4	9.1	10.6	10.8	
	3H	10.7	12.1	11.0	12.3	12.6	10.2	11.6	10.5	11.9	12.1
	4H	11.3	12.6	11.6	12.8	13.1	10.7	12.0	11.1	12.3	12.6
	6H	11.7	12.9	12.0	13.2	13.5	11.0	12.3	11.4	12.6	12.8
	8H	11.8	13.0	12.1	13.3	13.6	11.1	12.3	11.5	12.6	12.9
	12H	11.8	13.0	12.2	13.3	13.6	11.1	12.3	11.5	12.6	12.9
4H	2H	9.7	11.1	10.1	11.3	11.6	9.5	10.8	9.8	11.1	11.3
	3H	11.4	12.6	11.8	12.9	13.2	11.0	12.2	11.4	12.5	12.8
	4H	12.1	13.2	12.5	13.5	13.8	11.6	12.7	12.0	13.0	13.4
	6H	12.6	13.6	13.0	13.9	14.3	12.1	13.0	12.5	13.3	13.7
	8H	12.8	13.7	13.2	14.0	14.4	12.2	13.0	12.6	13.4	13.8
	12H	12.9	13.7	13.3	14.1	14.5	12.2	13.0	12.6	13.4	13.8
8H	4H	12.3	13.2	12.7	13.6	14.0	11.9	12.8	12.3	13.1	13.5
	6H	13.0	13.7	13.4	14.1	14.5	12.4	13.2	12.9	13.6	14.0
	8H	13.2	13.9	13.7	14.3	14.8	12.6	13.2	13.1	13.7	14.1
	12H	13.4	13.9	13.9	14.4	14.9	12.7	13.2	13.2	13.7	14.2
12H	4H	12.3	13.1	12.8	13.5	13.9	11.9	12.7	12.3	13.1	13.5
	6H	13.0	13.6	13.5	14.1	14.5	12.5	13.1	13.0	13.6	14.0
	8H	13.3	13.8	13.8	14.3	14.8	12.7	13.2	13.2	13.7	14.2
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					

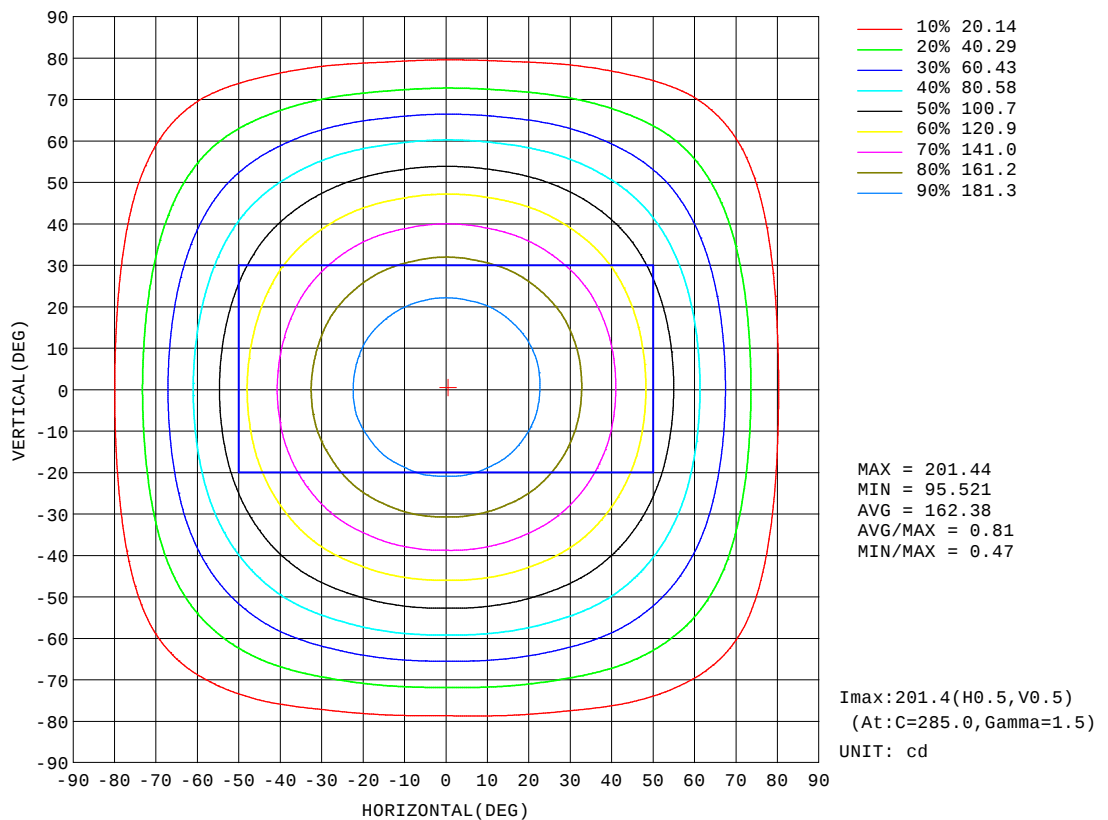
CIE Pub.117, 548.2 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -2.1$)

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=1.0664]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.08V I:0.0730A P:8.5168W PF:0.9714 Freq:59.98Hz Lamp Flux:548.197x1 lm		
NAME: ASD-UCL-18D8CC-4000K	TYPE:	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



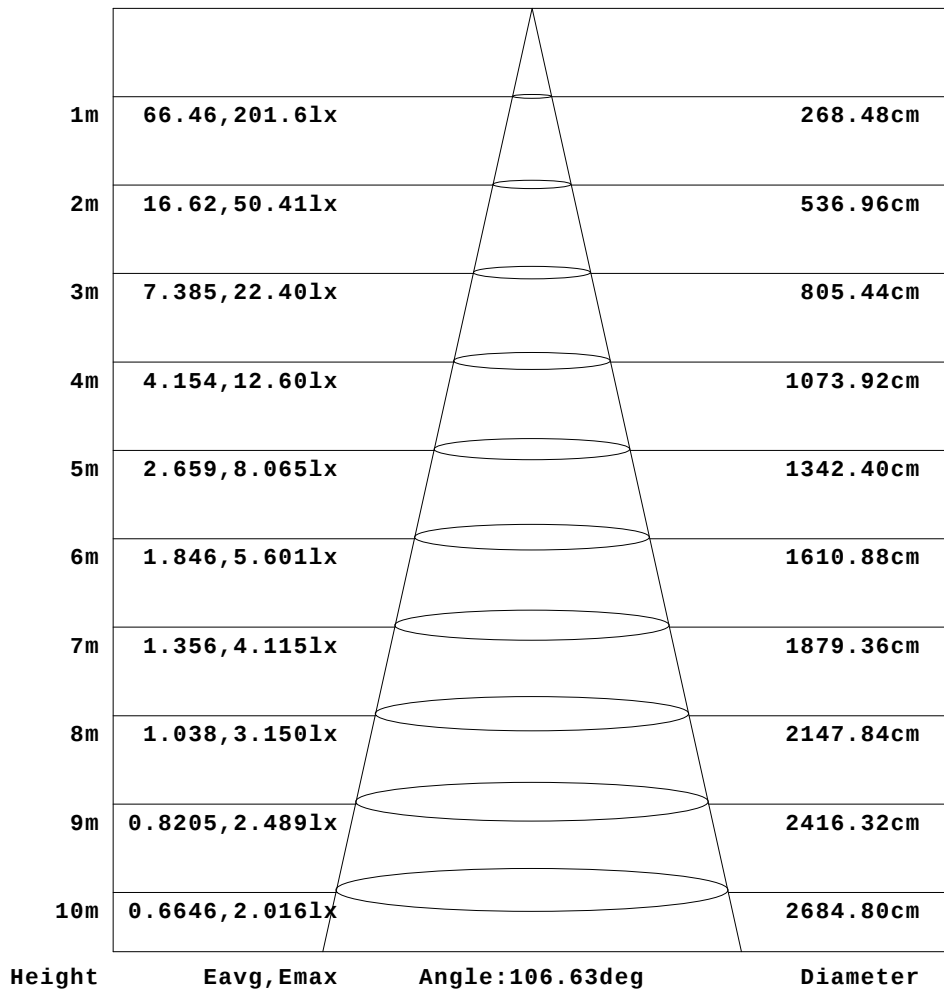
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:10 March 2021

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE G0-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.010m [K=1.0664]
Remarks:

AAI Figure

Test:U:120.08V I:0.0730A P:8.5168W PF:0.9714 Freq:59.98Hz Lamp Flux:548.197x1 lm		
NAME: ASD-UCL-18D8CC-4000K	TYPE:	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:381.3 lm



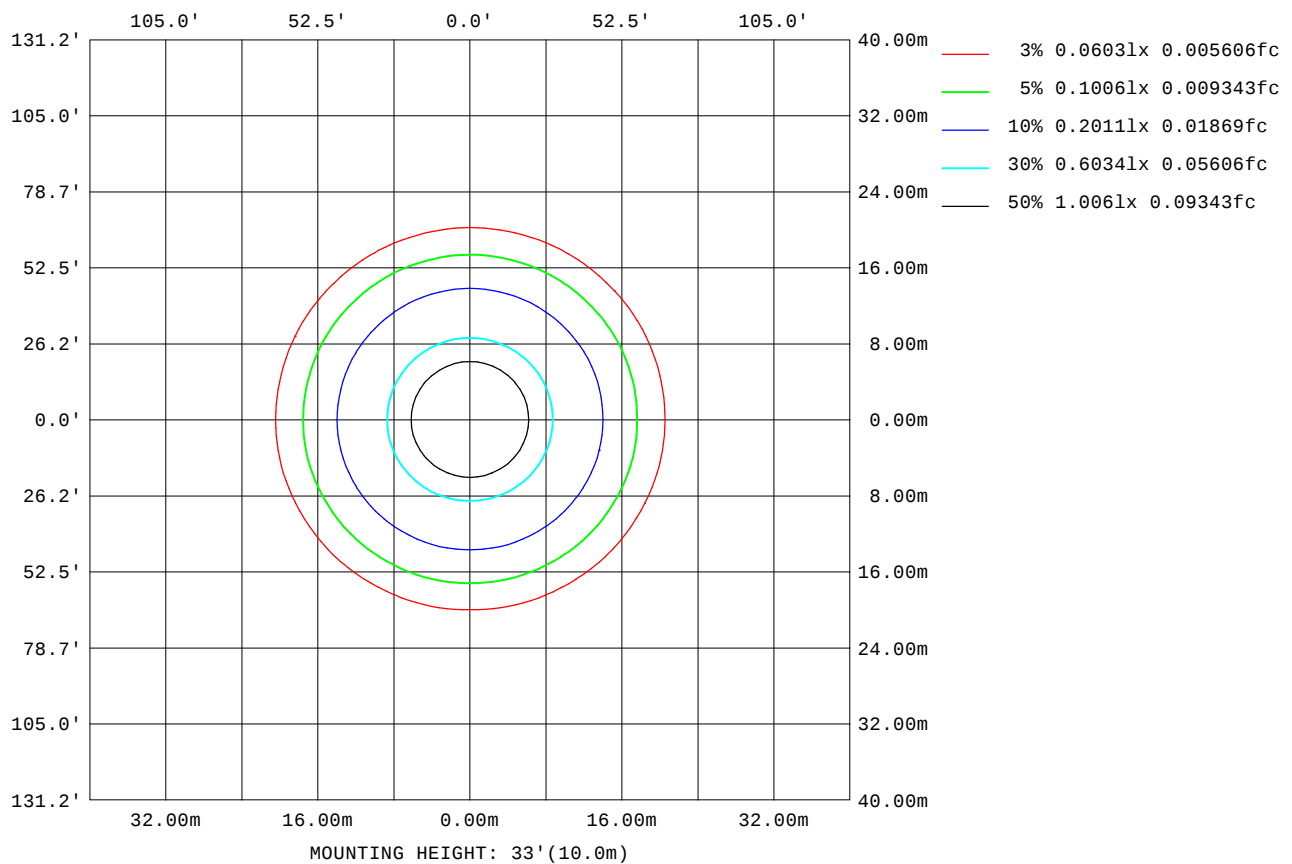
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date: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:120.08V I:0.0730A P:8.5168W PF:0.9714 Freq:59.98Hz Lamp Flux:548.197x1 lm		
NAME: ASD-UCL-18D8CC-4000K	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 G0-SPEX500_V1 SYSTEM V2.0.402
Humidity: 65.0%
Test Distance: 3.010m [K=1.0664]
Remarks:

LED Avg.L Report

Test:U:120.08V I:0.0730A P:8.5168W PF:0.9714 Freq:59.98Hz Lamp Flux:548.197x1 lm		
NAME: ASD-UCL-18D8CC-4000K	TYPE:	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

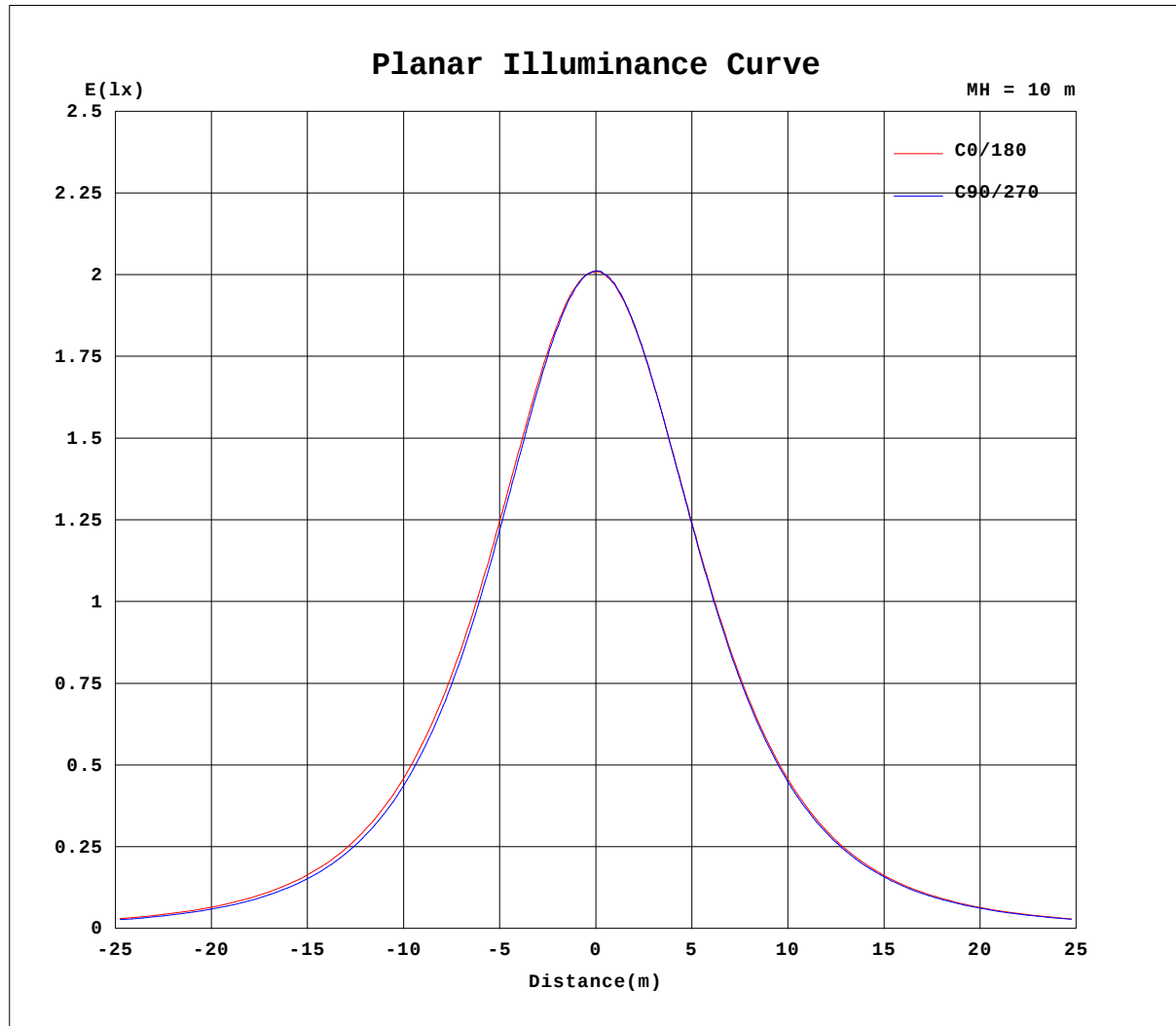
AvgL	cd/m2
L_0~180(65)av	322
L_0~180(75)av	273
L_0~180(85)av	188
L_90~270(65)av	301
L_90~270(75)av	248
L_90~270(85)av	134
L_45(65)av	311
L_45(75)av	260
L_45(85)av	160

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 G0-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 G0-SPEX500_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 3.010m [K=1.0664]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.08V I:0.0730A P:8.5168W PF:0.9714 Freq:59.98Hz Lamp Flux:548.197x1 lm		
NAME: ASD-UCL-18D8CC-4000K	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	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201	201
5	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
10	197	197	197	197	197	196	196	196	197	196	197	197	197	197	197	197	197	197	197
15	192	192	192	191	191	191	190	191	191	191	191	192	192	192	192	192	192	192	192
20	185	186	185	184	184	183	183	183	184	184	184	185	185	186	185	185	185	185	185
25	177	177	176	175	175	174	174	174	175	175	176	176	177	177	177	176	176	176	176
30	167	167	166	165	164	163	163	163	164	165	165	166	167	167	167	166	166	165	166
35	156	156	154	153	152	151	151	151	152	153	154	155	156	155	155	154	154	154	154
40	144	143	142	141	139	138	138	138	139	140	141	142	143	143	143	142	141	141	141
45	130	130	128	127	125	124	124	124	125	126	128	129	130	129	129	128	127	127	127
50	116	115	114	113	111	110	109	110	110	112	113	114	115	115	114	113	113	112	112
55	101	100	98.6	97.3	95.5	94.6	93.8	94.5	95.2	96.5	97.6	99.2	99.9	99.6	99.2	97.9	97.6	96.8	97.0
60	84.9	84.5	82.8	81.6	79.8	79.0	78.1	78.8	79.2	80.8	81.8	83.3	83.9	83.5	83.3	82.1	81.7	80.8	81.2
65	68.6	68.4	66.6	65.5	63.7	63.0	62.1	62.7	63.2	64.7	65.5	67.0	67.4	67.1	66.9	65.8	65.5	64.6	65.0
70	52.0	51.9	50.4	49.3	47.7	47.1	46.2	46.7	47.1	48.4	49.2	50.5	51.0	50.5	50.4	49.4	49.2	48.4	48.9
75	35.9	35.9	34.5	33.7	32.1	31.6	30.7	31.2	31.5	32.8	33.3	34.4	34.7	34.4	34.4	33.5	33.4	32.7	33.3
80	21.0	21.2	19.9	19.3	17.9	17.5	16.7	17.1	17.2	18.4	18.8	19.9	20.0	19.7	19.9	19.0	19.0	18.3	18.9
85	8.59	8.64	7.50	6.88	6.07	5.72	5.21	5.40	5.57	6.38	7.01	7.68	7.77	7.64	7.56	6.89	6.62	6.17	6.44
90	0.54	0.47	0.53	0.44	0.32	0.15	0.15	0.13	0.29	0.42	0.47	0.41	0.34	0.51	0.40	0.39	0.30	0.20	0.18
95	0.22	0.20	0.20	0.19	0.19	0.18	0.18	0.19	0.19	0.20	0.21	0.21	0.13	0.14	0.16	0.16	0.14	0.14	0.16
100	0.28	0.27	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.27	0.28	0.20	0.20	0.20	0.20	0.19	0.20	0.19
105	0.37	0.35	0.35	0.34	0.34	0.34	0.35	0.34	0.34	0.35	0.35	0.35	0.27	0.27	0.25	0.25	0.25	0.25	0.26
110	0.45	0.43	0.43	0.42	0.42	0.42	0.43	0.43	0.42	0.42	0.43	0.44	0.35	0.33	0.31	0.30	0.31	0.31	0.32
115	0.52	0.50	0.50	0.49	0.48	0.48	0.49	0.48	0.48	0.49	0.49	0.50	0.41	0.38	0.36	0.35	0.34	0.35	0.36
120	0.60	0.57	0.56	0.54	0.54	0.54	0.56	0.54	0.54	0.54	0.55	0.56	0.46	0.43	0.41	0.39	0.38	0.40	0.41
125	0.64	0.62	0.60	0.57	0.58	0.59	0.61	0.59	0.58	0.57	0.58	0.60	0.50	0.47	0.44	0.43	0.41	0.43	0.45
130	0.66	0.64	0.62	0.61	0.61	0.63	0.65	0.62	0.60	0.60	0.61	0.62	0.51	0.48	0.46	0.46	0.45	0.47	0.49
135	0.66	0.64	0.63	0.62	0.62	0.64	0.65	0.63	0.62	0.61	0.63	0.62	0.51	0.48	0.47	0.47	0.48	0.49	0.51
140	0.63	0.62	0.64	0.63	0.63	0.63	0.64	0.61	0.62	0.63	0.64	0.61	0.48	0.47	0.46	0.49	0.47	0.50	0.53
145	0.62	0.62	0.65	0.65	0.63	0.65	0.66	0.62	0.63	0.65	0.63	0.61	0.46	0.46	0.45	0.48	0.52	0.52	0.55
150	0.60	0.61	0.63	0.67	0.67	0.67	0.66	0.64	0.66	0.65	0.61	0.60	0.44	0.44	0.43	0.42	0.51	0.57	0.59
155	0.58	0.60	0.60	0.64	0.68	0.72	0.72	0.69	0.65	0.63	0.58	0.59	0.42	0.42	0.44	0.42	0.42	0.49	0.51
160	0.56	0.59	0.57	0.59	0.63	0.67	0.67	0.65	0.61	0.56	0.55	0.56	0.40	0.40	0.41	0.42	0.43	0.45	0.44
165	0.53	0.55	0.56	0.56	0.56	0.58	0.59	0.57	0.55	0.52	0.52	0.52	0.39	0.38	0.39	0.43	0.45	0.47	0.45
170	0.53	0.55	0.56	0.56	0.55	0.55	0.54	0.54	0.53	0.51	0.51	0.50	0.42	0.40	0.41	0.44	0.46	0.48	0.48
175	0.52	0.53	0.54	0.54	0.53	0.52	0.51	0.53	0.53	0.51	0.49	0.48	0.45	0.44	0.44	0.46	0.47	0.48	0.46
180	0.51	0.51	0.51	0.52	0.51	0.48	0.47	0.47	0.49	0.52	0.51	0.49	0.51	0.51	0.51	0.52	0.51	0.48	0.47

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 G0-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.010m [K=1.0664]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.08V I:0.0730A P:8.5168W PF:0.9714 Freq:59.98Hz Lamp Flux:548.197x1 lm		
NAME: ASD-UCL-18D8CC-4000K	TYPE:	WEIGHT:
SPEC.:8W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2
UNIT: cd

C(DEC) g (DEC)	285	300	315	330	345														
0	201	201	201	201	201														
5	201	201	200	200	200														
10	197	198	197	198	197														
15	192	193	192	193	192														
20	185	186	185	186	186														
25	176	177	177	178	177														
30	166	167	166	167	167														
35	154	155	155	156	156														
40	141	142	142	144	144														
45	127	128	129	130	130														
50	112	114	114	116	116														
55	97.1	98.2	98.8	100	101														
60	81.3	82.3	82.9	84.4	84.8														
65	65.1	66.2	66.7	68.2	68.5														
70	48.9	50.0	50.5	51.8	52.0														
75	33.3	34.2	34.5	35.7	35.9														
80	18.8	19.8	20.0	21.1	21.0														
85	6.54	7.29	7.75	8.60	8.60														
90	0.26	0.35	0.44	0.50	0.56														
95	0.19	0.19	0.18	0.18	0.15														
100	0.21	0.21	0.21	0.20	0.20														
105	0.25	0.26	0.26	0.26	0.27														
110	0.31	0.32	0.31	0.32	0.34														
115	0.35	0.36	0.36	0.37	0.39														
120	0.40	0.40	0.41	0.42	0.45														
125	0.43	0.43	0.44	0.46	0.48														
130	0.48	0.46	0.46	0.48	0.50														
135	0.51	0.49	0.47	0.48	0.50														
140	0.52	0.49	0.49	0.47	0.49														
145	0.54	0.53	0.48	0.47	0.48														
150	0.59	0.52	0.44	0.45	0.46														
155	0.50	0.45	0.43	0.46	0.45														
160	0.47	0.44	0.43	0.44	0.44														
165	0.47	0.46	0.44	0.43	0.42														
170	0.49	0.46	0.45	0.46	0.45														
175	0.44	0.46	0.48	0.49	0.47														
180	0.47	0.50	0.52	0.51	0.49														

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 G0-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.010m [K=1.0664]
Remarks: