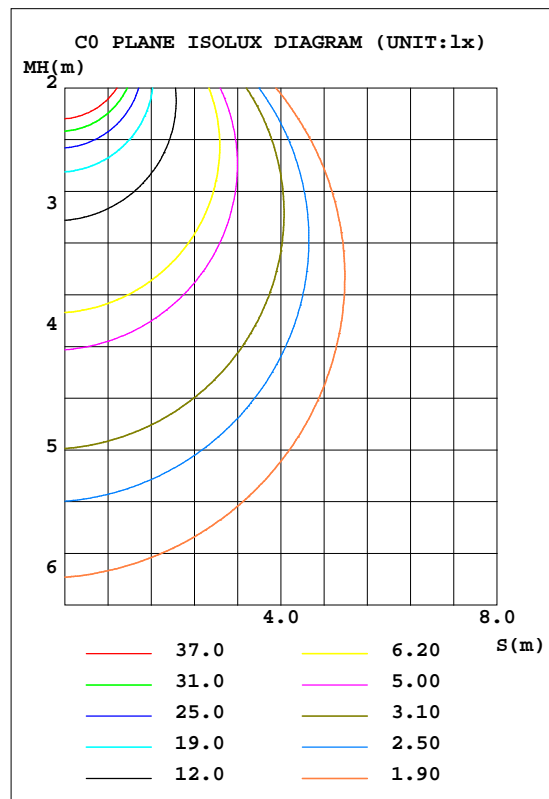
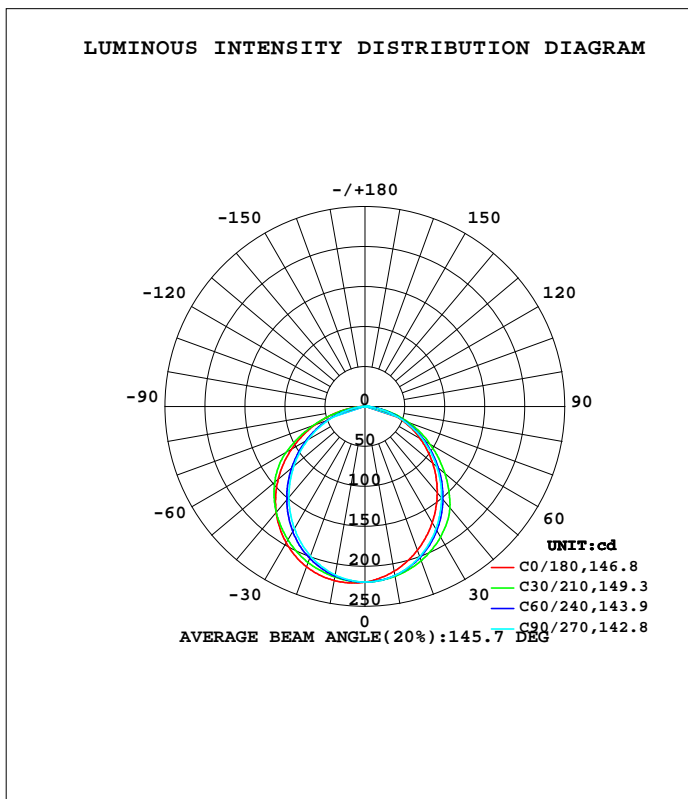


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:379.76x1 lm		
NAME: ASD-UCS-24D12CC-XX 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 55.11 lm/W
MODEL	ASD-UCS-24D12CC-XX	I _{max} (cd)	221.5	S/MH(C0/180)	1.32	
NOMINAL POWER(W)	12	LOR(%)	165.2	S/MH(C90/270)	1.20	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	627.24	h UP, DN(C0-180)	0.5,82.8	
NOMINAL FLUX(lm)	379.76	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.4,81.4	
LAMPS INSIDE	1	h up(%)	1.0	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	120	h down(%)	164.2	CIBSE SHR MAX	1.50	



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:09 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	209.3	215.3	214.8	218.1	221.0	216.0	213.9	214.8	0- 10	20.78	20.78	3.31,5.47
20	191.6	204.1	200.1	209.6	213.5	205.0	199.3	203.8	10- 20	59.60	80.37	12.8,21.2
30	168.1	185.9	177.4	195.2	197.1	187.5	176.6	187.1	20- 30	90.64	171.0	27.3,45
40	140.8	162.1	149.2	176.0	173.0	164.7	148.3	164.9	30- 40	109.6	280.6	44.7,73.9
50	110.7	131.4	117.5	151.6	141.8	136.7	116.3	131.1	40- 50	113.8	394.4	62.9,104
60	79.30	94.31	84.38	120.1	105.5	103.1	82.12	93.04	50- 60	102.0	496.4	79.1,131
70	48.29	56.90	50.24	74.25	65.91	61.58	47.14	55.10	60- 70	76.27	572.6	91.3,151
80	19.71	22.58	18.26	29.14	27.60	21.95	15.41	19.87	70- 80	41.62	614.3	97.9,162
90	0.2982	0.4492	0.1660	0.3932	0.3498	0.3609	0.1353	0.3929	80- 90	9.308	623.6	99.4,164
100	0.4020	0.3618	0.2692	0.3232	0.2130	0.2456	0.2552	0.3571	90-100	0.2989	623.9	99.5,164
110	0.6208	0.5807	0.4729	0.4748	0.3515	0.4235	0.4386	0.5867	100-110	0.4225	624.3	99.5,164
120	0.7930	0.7741	0.6596	0.6489	0.4759	0.5763	0.6207	0.7552	110-120	0.5834	624.9	99.6,165
130	0.8093	0.8705	0.7793	0.7766	0.5557	0.6922	0.7419	0.8423	120-130	0.6457	625.5	99.7,165
140	0.7429	0.9692	0.8625	0.8967	0.5948	0.7449	0.8022	0.8240	130-140	0.6094	626.1	99.8,165
150	0.6840	0.9862	0.9686	0.9345	0.6078	0.7199	0.8082	0.7050	140-150	0.5092	626.6	99.9,165
160	0.6011	0.8081	0.8973	0.8631	0.5686	0.6240	0.5930	0.5669	150-160	0.3538	627.0	100,165
170	0.5376	0.7104	0.6673	0.8174	0.5389	0.5859	0.5568	0.6261	160-170	0.1869	627.2	100,165
180	0.5763	0.7192	0.7367	0.8137	0.5730	0.7170	0.7376	0.8071	170-180	0.0624	627.2	100,165
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:09 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:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:379.76x1 lm										
NAME: ASD-UCS-24D12CC-XX 4000K					TYPE:			WEIGHT:		
SPEC.:					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	9.5	11.0	9.7	11.2	11.4	9.1	10.6	9.4	10.8	11.0
3H	10.9	12.3	11.2	12.6	12.8	10.4	11.8	10.7	12.1	12.3
4H	11.5	12.8	11.8	13.1	13.3	10.9	12.3	11.3	12.5	12.8
6H	11.9	13.1	12.2	13.4	13.7	11.2	12.5	11.6	12.8	13.1
8H	12.0	13.2	12.3	13.5	13.8	11.3	12.5	11.7	12.8	13.1
12H	12.1	13.2	12.4	13.5	13.8	11.3	12.5	11.7	12.8	13.1
4H 2H	10.0	11.3	10.3	11.6	11.9	9.7	11.1	10.1	11.3	11.6
3H	11.7	12.8	12.0	13.1	13.4	11.3	12.4	11.6	12.7	13.0
4H	12.4	13.4	12.7	13.8	14.1	11.9	12.9	12.3	13.3	13.6
6H	12.9	13.8	13.3	14.2	14.6	12.3	13.2	12.7	13.6	14.0
8H	13.1	14.0	13.5	14.3	14.7	12.4	13.3	12.8	13.7	14.1
12H	13.2	14.0	13.6	14.4	14.8	12.5	13.3	12.9	13.6	14.1
8H 4H	12.6	13.5	13.0	13.8	14.2	12.2	13.0	12.6	13.4	13.8
6H	13.3	14.0	13.7	14.4	14.8	12.7	13.4	13.2	13.9	14.3
	13.5	14.2	14.0	14.6	15.1	12.9	13.5	13.4	14.0	14.4
	13.7	14.3	14.2	14.7	15.2	13.0	13.5	13.5	14.0	14.5
	12.6	13.4	13.0	13.8	14.2	12.2	13.0	12.6	13.4	13.8
	13.3	13.9	13.8	14.4	14.8	12.8	13.4	13.2	13.8	14.3
	13.6	14.2	14.1	14.6	15.1	13.0	13.5	13.5	14.0	14.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.2H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

12H 4H
CIE Pub.117, 379.8 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.4)
6H

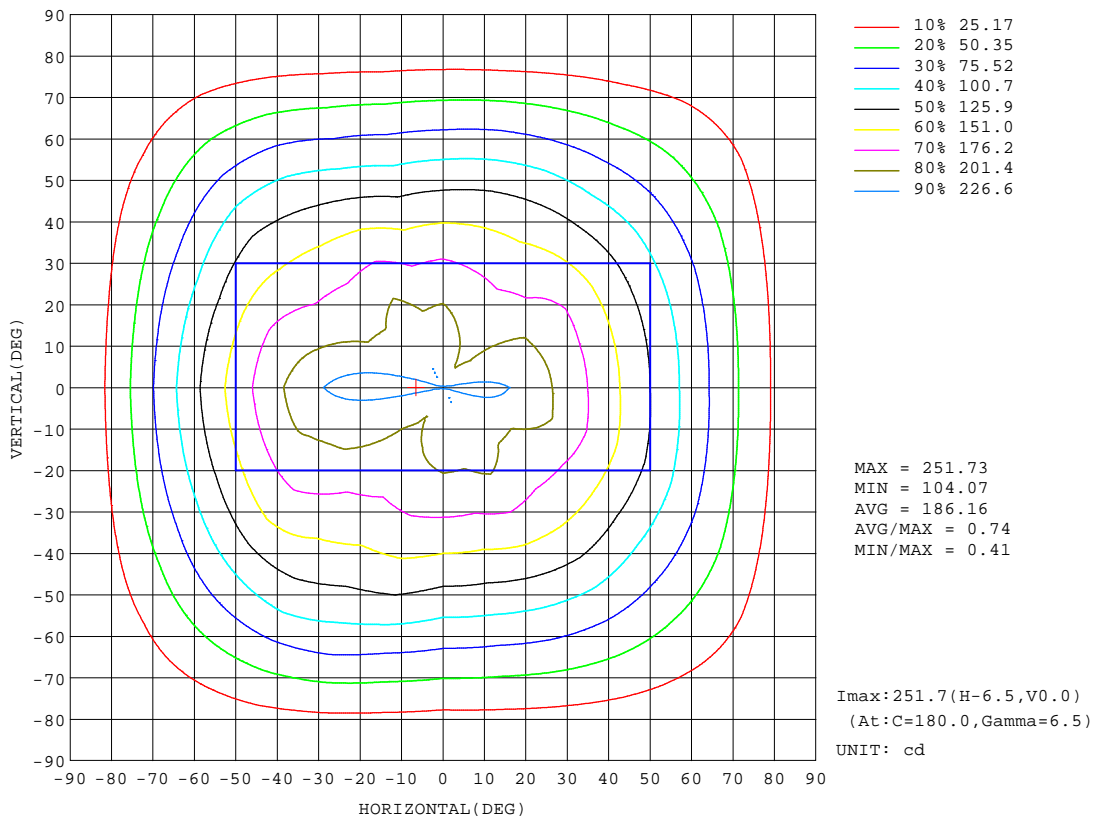
8H

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:09 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:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:379.76x1 lm		
NAME: ASD-UCS-24D12CC-XX 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



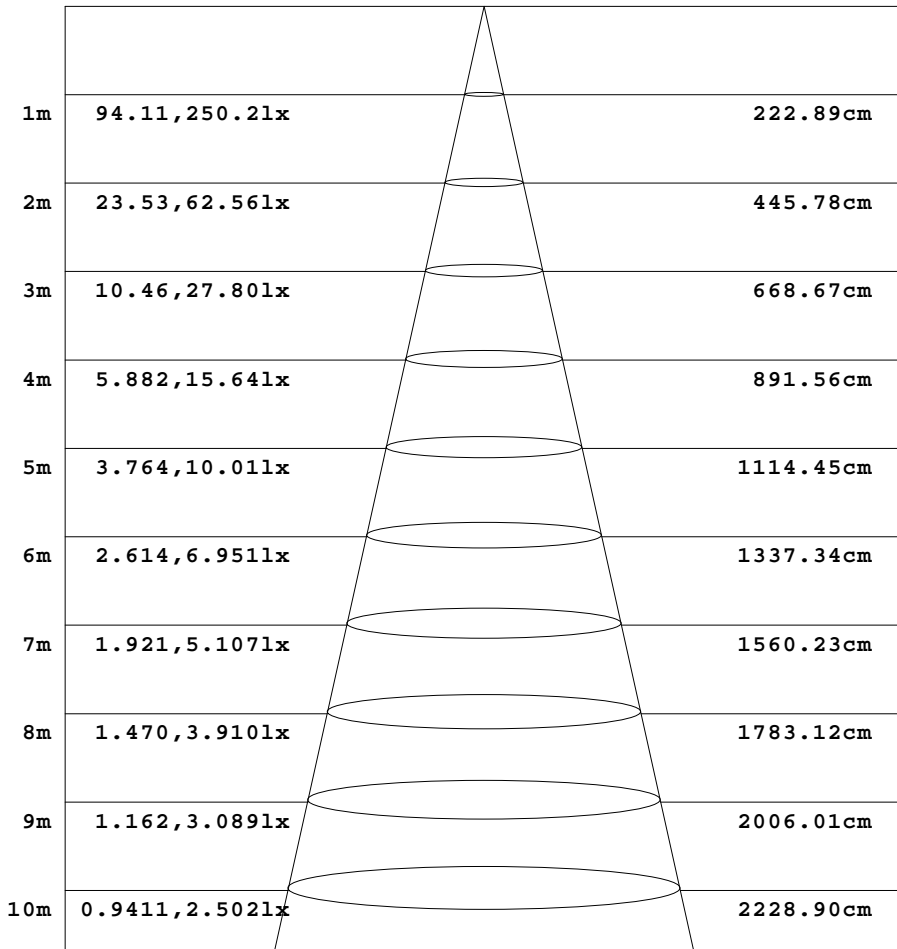
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:09 October 2020

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:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:379.76x1 lm		
NAME: ASD-UCS-24D12CC-XX 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:377.7 lm



Height Eavg, Emax Angle:96.20deg Diameter

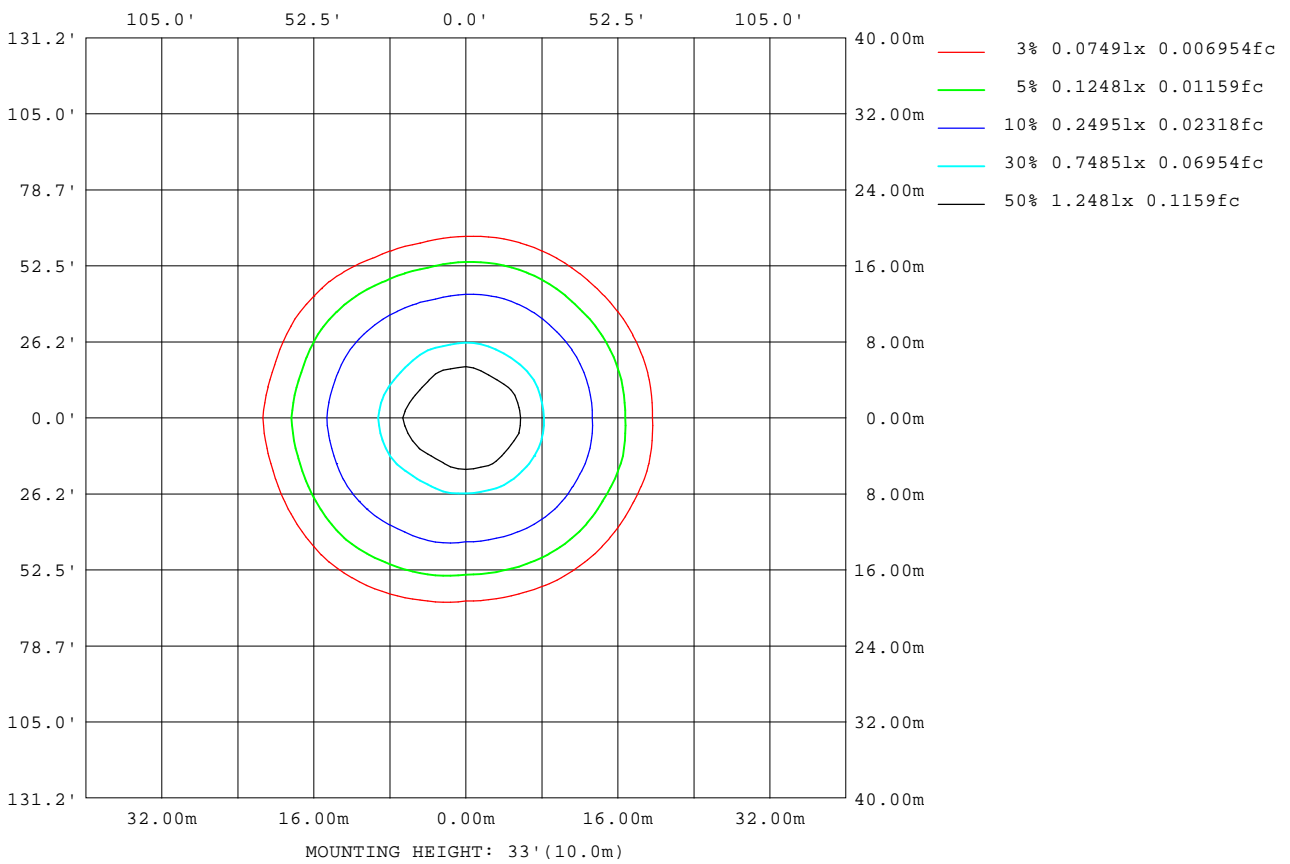
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:09 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:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:379.76x1 lm		
NAME: ASD-UCS-24D12CC-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: 09 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:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:379.76x1 lm		
NAME: ASD-UCS-24D12CC-XX 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

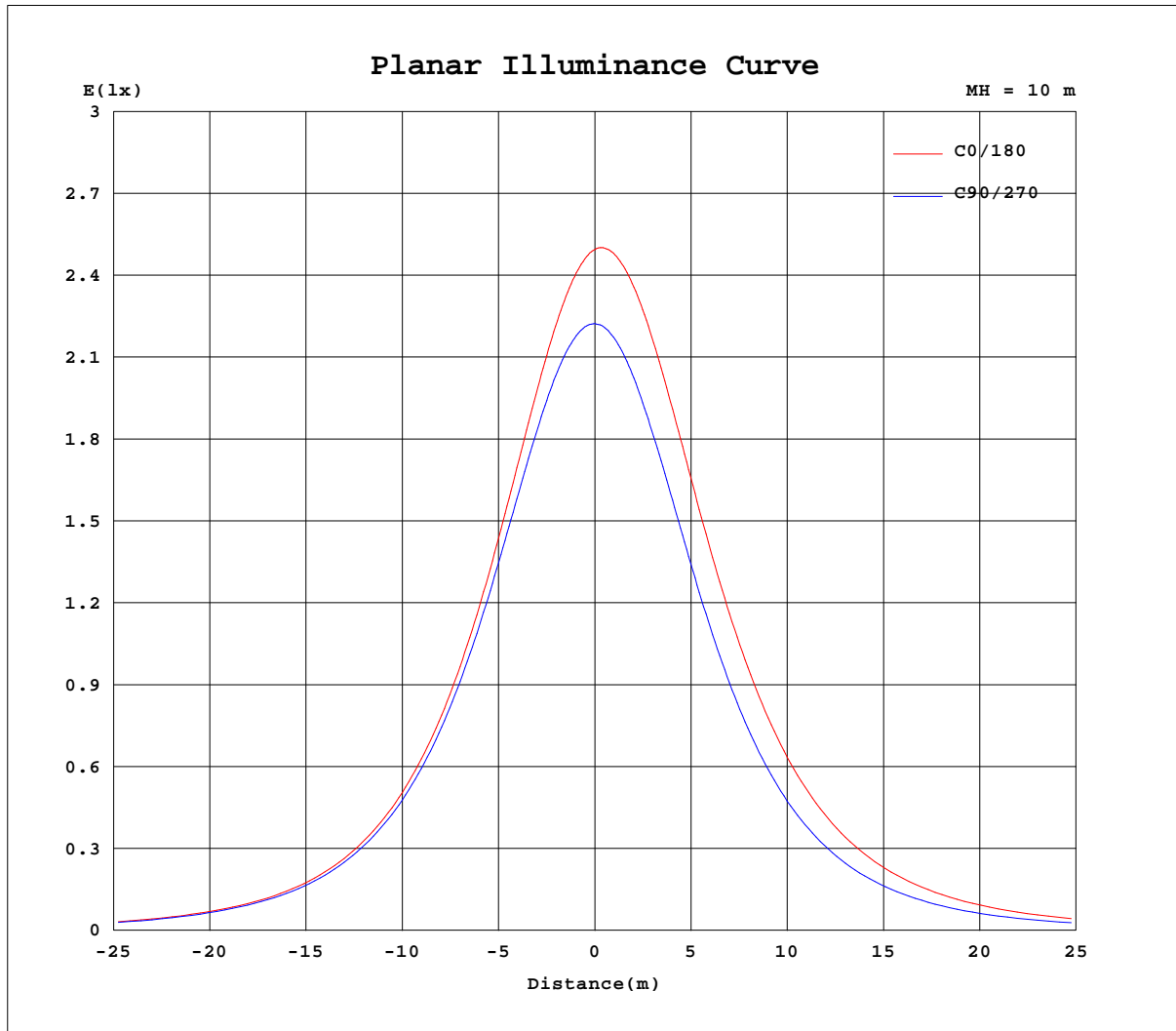
AvgL	cd/m2
L_0~180(65)av	355
L_0~180(75)av	307
L_0~180(85)av	227
L_90~270(65)av	312
L_90~270(75)av	247
L_90~270(85)av	93
L_45(65)av	391
L_45(75)av	324
L_45(85)av	174

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:09 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: 09 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:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:379.76x1 lm		
NAME: ASD-UCS-24D12CC-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	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
5	215	219	218	218	218	219	218	219	219	219	220	220	221	219	219	219	219	218	218
10	209	216	216	215	215	215	215	216	217	218	218	219	221	217	217	216	215	214	214
15	201	212	211	210	209	209	209	212	213	215	215	218	218	214	213	211	210	207	207
20	192	207	205	204	201	201	200	206	207	210	211	215	213	209	208	205	202	199	199
25	180	199	198	196	191	191	190	197	200	203	206	212	206	203	201	197	193	188	189
30	168	187	189	186	180	179	177	187	191	195	199	208	197	196	193	188	181	176	177
35	155	172	178	175	166	165	164	176	180	186	191	204	186	188	183	177	167	162	163
40	141	157	165	162	152	151	149	163	169	176	182	192	173	178	173	165	152	147	148
45	126	141	148	148	136	135	134	150	156	165	171	176	158	166	161	151	136	132	133
50	111	125	131	131	120	119	117	134	142	152	156	157	142	148	147	137	120	115	116
55	95.1	108	112	113	103	103	101	117	127	137	136	137	124	128	132	121	103	98.3	99.4
60	79.3	90.4	93.3	94.3	86.9	85.7	84.4	97.5	110	120	114	115	106	108	113	103	85.1	81.7	82.1
65	64.0	73.0	75.9	75.5	69.4	68.5	67.4	78.0	91.8	97.8	92.0	92.8	85.9	86.7	90.9	83.0	67.1	64.3	64.6
70	48.3	55.7	57.5	56.9	52.1	51.3	50.2	58.6	70.6	74.3	70.1	70.0	65.9	65.7	68.2	61.6	49.4	46.7	47.1
75	33.4	39.1	39.8	39.0	35.4	34.7	33.6	39.7	48.0	51.0	47.8	47.5	46.1	44.6	46.2	40.9	32.3	30.0	30.2
80	19.7	23.8	23.5	22.6	19.9	19.4	18.3	22.2	27.1	29.1	26.9	26.7	27.6	25.2	25.8	21.9	16.8	15.2	15.4
85	8.14	10.7	9.48	8.41	6.80	6.28	5.57	7.26	9.10	10.37	9.18	9.17	11.7	8.67	8.03	5.51	3.31	2.34	2.51
90	0.30	0.67	0.52	0.45	0.35	0.27	0.17	0.21	0.31	0.39	0.46	0.39	0.35	0.18	0.44	0.36	0.27	0.21	0.14
95	0.30	0.32	0.38	0.36	0.30	0.26	0.20	0.22	0.29	0.34	0.30	0.26	0.15	0.18	0.20	0.17	0.16	0.18	0.18
100	0.40	0.40	0.40	0.36	0.33	0.31	0.27	0.28	0.30	0.32	0.30	0.30	0.21	0.25	0.27	0.25	0.24	0.26	0.26
105	0.51	0.51	0.51	0.48	0.41	0.38	0.37	0.38	0.38	0.39	0.37	0.37	0.28	0.33	0.35	0.33	0.31	0.34	0.35
110	0.62	0.63	0.63	0.58	0.52	0.49	0.47	0.49	0.48	0.47	0.45	0.46	0.35	0.41	0.43	0.42	0.40	0.43	0.44
115	0.72	0.74	0.74	0.69	0.62	0.59	0.57	0.60	0.58	0.56	0.54	0.54	0.42	0.48	0.51	0.50	0.48	0.52	0.53
120	0.79	0.83	0.83	0.77	0.70	0.69	0.66	0.69	0.67	0.65	0.62	0.61	0.48	0.54	0.58	0.58	0.55	0.60	0.62
125	0.82	0.87	0.88	0.83	0.75	0.75	0.73	0.75	0.74	0.72	0.67	0.67	0.53	0.59	0.64	0.64	0.61	0.65	0.67
130	0.81	0.88	0.93	0.87	0.79	0.80	0.78	0.80	0.80	0.78	0.73	0.71	0.56	0.62	0.68	0.69	0.66	0.72	0.74
135	0.78	0.86	0.96	0.92	0.83	0.84	0.83	0.85	0.85	0.84	0.77	0.75	0.58	0.64	0.70	0.73	0.70	0.76	0.79
140	0.74	0.83	0.97	0.97	0.88	0.89	0.86	0.89	0.91	0.90	0.80	0.76	0.59	0.65	0.72	0.74	0.73	0.79	0.80
145	0.72	0.80	0.93	0.99	0.93	0.95	0.93	0.96	0.97	0.93	0.81	0.77	0.60	0.65	0.71	0.74	0.74	0.80	0.82
150	0.68	0.76	0.89	0.99	0.94	0.99	0.97	0.98	1.00	0.93	0.82	0.78	0.61	0.65	0.70	0.72	0.72	0.80	0.81
155	0.65	0.74	0.82	0.91	0.93	1.00	0.98	0.99	0.99	0.91	0.81	0.78	0.59	0.63	0.69	0.67	0.66	0.73	0.74
160	0.60	0.71	0.75	0.81	0.83	0.89	0.90	0.92	0.94	0.86	0.79	0.77	0.57	0.61	0.64	0.62	0.60	0.62	0.59
165	0.54	0.64	0.70	0.72	0.72	0.75	0.77	0.83	0.86	0.83	0.76	0.72	0.52	0.57	0.60	0.60	0.56	0.56	0.51
170	0.54	0.62	0.72	0.71	0.65	0.69	0.67	0.75	0.82	0.82	0.76	0.72	0.54	0.58	0.61	0.59	0.54	0.53	0.56
175	0.54	0.61	0.69	0.71	0.68	0.72	0.67	0.74	0.81	0.81	0.74	0.70	0.54	0.58	0.61	0.63	0.58	0.58	0.61
180	0.58	0.63	0.68	0.72	0.65	0.72	0.74	0.71	0.77	0.81	0.75	0.72	0.57	0.63	0.69	0.72	0.66	0.72	0.74

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:09 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:120.04V I:0.1339A P:11.381W PF:0.7082 Freq:59.98Hz Lamp Flux:379.76x1 lm		
NAME: ASD-UCS-24D12CC-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	220	220	220	220	220														
5	218	218	218	218	218														
10	214	215	215	215	216														
15	209	209	210	211	213														
20	201	203	204	206	209														
25	192	194	196	199	202														
30	181	185	187	189	190														
35	169	174	177	176	175														
40	156	161	165	159	159														
45	142	148	150	143	143														
50	126	132	131	126	126														
55	108	114	112	108	109														
60	89.5	94.0	93.0	90.3	91.5														
65	70.4	74.2	74.1	72.4	74.4														
70	51.4	54.6	55.1	54.8	57.0														
75	32.8	35.8	37.0	37.9	40.2														
80	16.1	18.5	19.9	22.4	24.7														
85	2.51	4.23	6.10	8.55	11.4														
90	0.23	0.31	0.39	0.41	0.83														
95	0.21	0.23	0.25	0.25	0.26														
100	0.30	0.33	0.36	0.35	0.36														
105	0.40	0.44	0.47	0.46	0.47														
110	0.50	0.55	0.59	0.56	0.58														
115	0.59	0.65	0.68	0.66	0.68														
120	0.68	0.73	0.76	0.75	0.75														
125	0.72	0.78	0.81	0.76	0.77														
130	0.80	0.83	0.84	0.77	0.77														
135	0.83	0.85	0.83	0.75	0.74														
140	0.84	0.86	0.82	0.71	0.71														
145	0.84	0.85	0.79	0.67	0.68														
150	0.82	0.80	0.70	0.63	0.64														
155	0.72	0.69	0.62	0.60	0.61														
160	0.60	0.59	0.57	0.55	0.58														
165	0.57	0.57	0.58	0.54	0.56														
170	0.58	0.61	0.63	0.61	0.63														
175	0.64	0.65	0.68	0.68	0.68														
180	0.71	0.78	0.81	0.74	0.72														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:09 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: