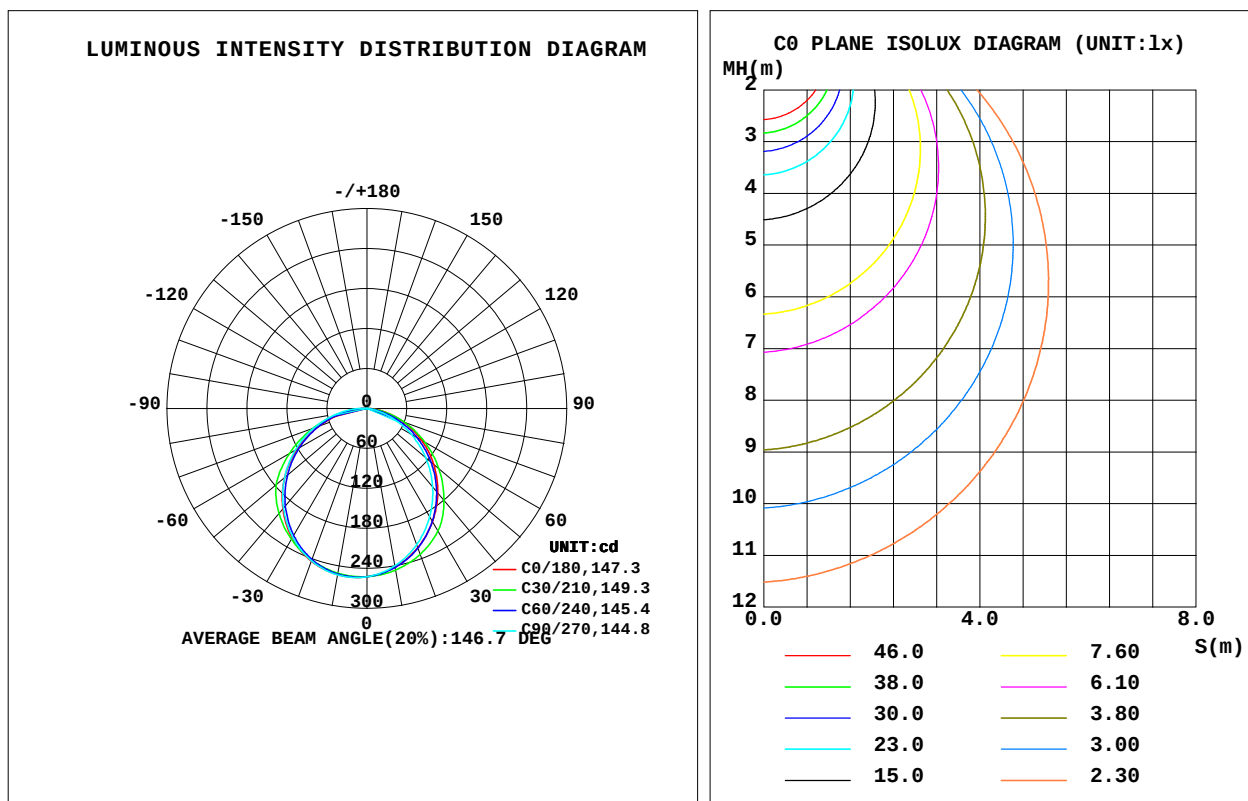


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.1329A P:11.435W PF:0.7173 Freq:59.98Hz Lamp Flux:747.546x1 lm		
NAME: ASD-UCS-24D12CC-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.37 lm/W			
MODEL	ASD-UCS-24D12CC-WH	I _{max} (cd)	269.1	S/MH(C0/180)	1.32
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	747.55	h UP, DN(C0-180)	0.4,40.4
NOMINAL FLUX(lm)	747.546	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.7,58.5
LAMPS INSIDE	1	h up(%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	98.9	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 G0-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	241.8	243.6	239.9	234.4	253.3	252.6	253.6	264.5	0- 10	23.90	23.90	3.2, 3.2
20	222.6	227.2	217.8	210.3	243.9	244.1	243.4	269.1	10- 20	68.65	92.55	12.4, 12.4
30	196.5	204.4	188.1	181.1	224.5	227.8	223.0	265.5	20- 30	104.6	197.2	26.4, 26.4
40	165.5	176.3	153.5	146.1	196.5	204.8	195.4	254.3	30- 40	127.3	324.4	43.4, 43.4
50	131.0	143.1	115.4	104.7	161.5	175.3	161.5	235.5	40- 50	132.6	457.1	61.1, 61.1
60	94.17	100.6	76.49	57.12	120.3	139.1	123.8	197.4	50- 60	119.6	576.6	77.1, 77.1
70	57.52	56.51	37.62	9.584	75.49	89.95	83.83	151.0	60- 70	89.96	666.6	89.2, 89.2
80	23.51	18.10	6.353	0.6710	32.07	42.08	44.26	102.5	70- 80	52.36	719.0	96.2, 96.2
90	0.4580	0.5722	0.5172	0.6974	0.6841	3.434	10.02	55.49	80- 90	20.21	739.2	98.9, 98.9
100	0.4560	0.6272	0.7686	0.9621	0.2525	0.2708	0.1909	10.27	90-100	4.054	743.2	99.4, 99.4
110	0.7026	0.8347	0.9042	1.142	0.4266	0.4603	0.3848	0.2777	100-110	0.6818	743.9	99.5, 99.5
120	0.9011	1.049	1.094	1.280	0.5787	0.6310	0.6080	0.5106	110-120	0.7272	744.6	99.6, 99.6
130	0.9366	1.126	1.217	1.400	0.6626	0.7636	0.7719	0.7235	120-130	0.7976	745.4	99.7, 99.7
140	0.8635	1.203	1.221	1.521	0.6870	0.8373	0.8774	0.8075	130-140	0.7526	746.2	99.8, 99.8
150	0.8046	1.188	1.261	1.510	0.6870	0.8184	0.9071	0.7573	140-150	0.6279	746.8	99.9, 99.9
160	0.7122	0.9612	1.144	1.298	0.6376	0.7329	0.7105	0.6446	150-160	0.4355	747.2	100, 100
170	0.6404	0.8244	0.8460	1.155	0.6019	0.6923	0.6662	0.7031	160-170	0.2282	747.5	100, 100
180	0.6576	0.8517	0.8661	1.081	0.6606	0.8535	0.8673	1.072	170-180	0.0757	747.5	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: 07 October 2020

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=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.1329A P:11.435W PF:0.7173 Freq:59.98Hz Lamp Flux:747.546x1 lm											
NAME: ASD-UCS-24D12CC-WH					TYPE:			WEIGHT:			
SPEC.:4000K					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	2H	10.2	11.7	10.5	11.9	12.1	8.6	10.1	8.9	10.3	10.6
	3H	11.7	13.1	12.0	13.3	13.6	9.6	11.0	9.9	11.2	11.5
	4H	12.2	13.6	12.6	13.8	14.1	9.8	11.2	10.2	11.5	11.7
	6H	12.6	13.9	13.0	14.2	14.5	9.9	11.1	10.2	11.4	11.7
	8H	12.7	14.0	13.1	14.3	14.6	9.8	11.1	10.2	11.4	11.7
	12H	12.8	14.0	13.2	14.3	14.6	9.8	11.0	10.2	11.3	11.6
4H	2H	10.6	11.9	10.9	12.2	12.5	9.3	10.7	9.7	10.9	11.2
	3H	12.2	13.4	12.6	13.7	14.0	10.5	11.7	10.9	12.0	12.3
	4H	12.9	14.0	13.3	14.3	14.7	10.8	11.9	11.2	12.3	12.6
	6H	13.5	14.4	13.9	14.8	15.2	11.0	11.9	11.4	12.3	12.7
	8H	13.7	14.5	14.1	14.9	15.3	10.9	11.8	11.4	12.2	12.6
	12H	13.8	14.6	14.2	15.0	15.4	10.9	11.7	11.3	12.1	12.6
8H	4H	13.0	13.9	13.5	14.3	14.7	11.1	12.0	11.6	12.4	12.8
	6H	13.7	14.4	14.1	14.8	15.3	11.3	12.1	11.8	12.5	13.0
	8H	13.9	14.6	14.4	15.0	15.5	11.3	12.0	11.8	12.5	12.9
	12H	14.1	14.7	14.6	15.2	15.7	11.3	11.9	11.8	12.4	12.9
12H	4H	13.0	13.8	13.4	14.2	14.6	11.2	12.0	11.6	12.4	12.8
	6H	13.7	14.3	14.2	14.8	15.3	11.4	12.0	11.9	12.5	13.0
	8H	14.0	14.5	14.4	15.0	15.5	11.4	12.0	11.9	12.4	13.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.3 / - 0.4					
1.5H	+ 0.2 / - 0.3					+ 0.3 / - 0.6					
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.8					

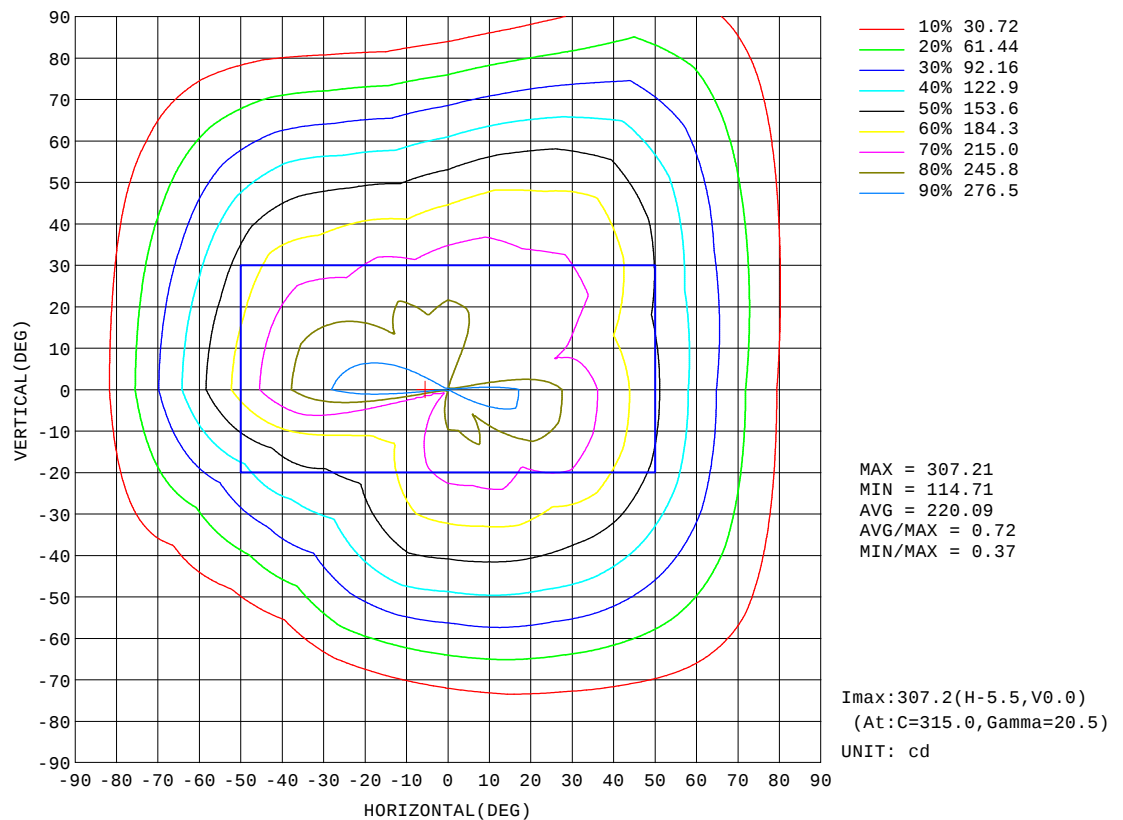
CIE Pub.117, 747.5 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.0)

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:120.00V I:0.1329A P:11.435W PF:0.7173 Freq:59.98Hz Lamp Flux:747.546x1 lm		
NAME: ASD-UCS-24D12CC-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



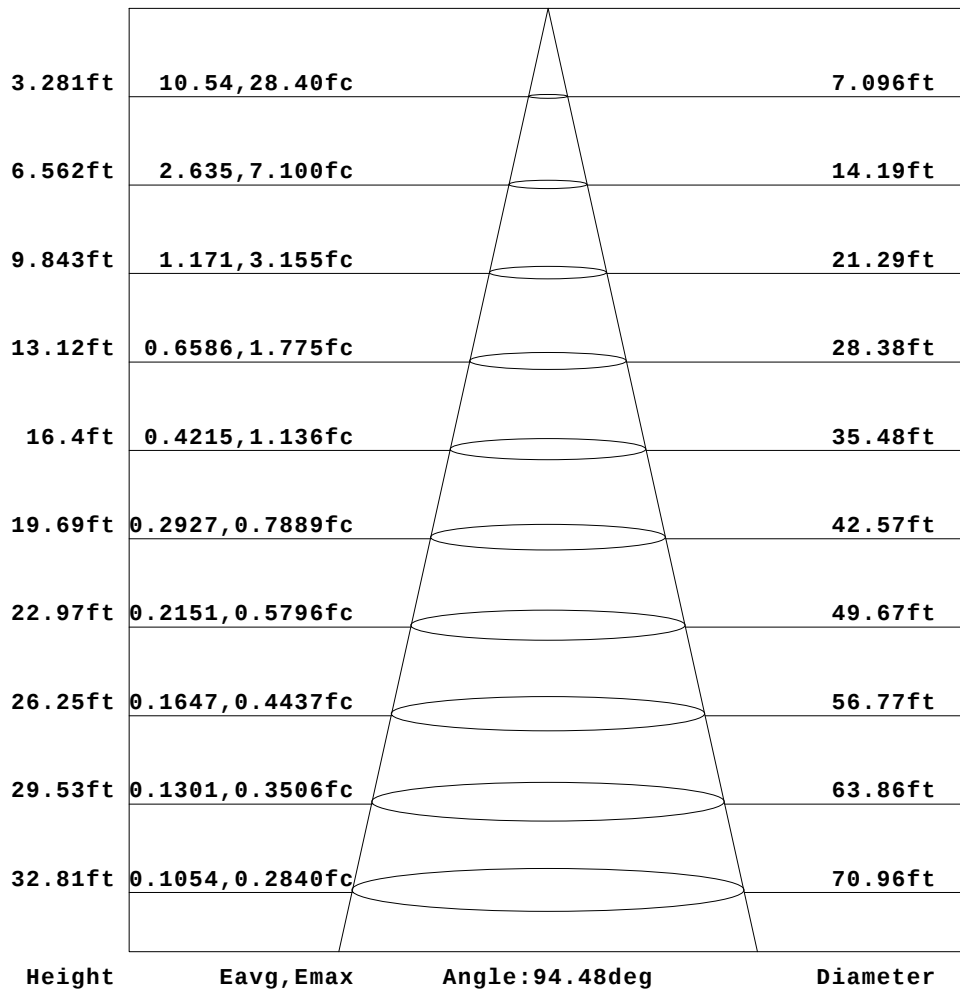
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 07 October 2020

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System: EVERFINE G0-SPEX500_V1 SYSTEM V2.0.402
Humidity: 65.0%
Test Distance: 3.010m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.00V I:0.1329A P:11.435W PF:0.7173 Freq:59.98Hz Lamp Flux:747.546x1 lm		
NAME: ASD-UCS-24D12CC-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:424.4 lm



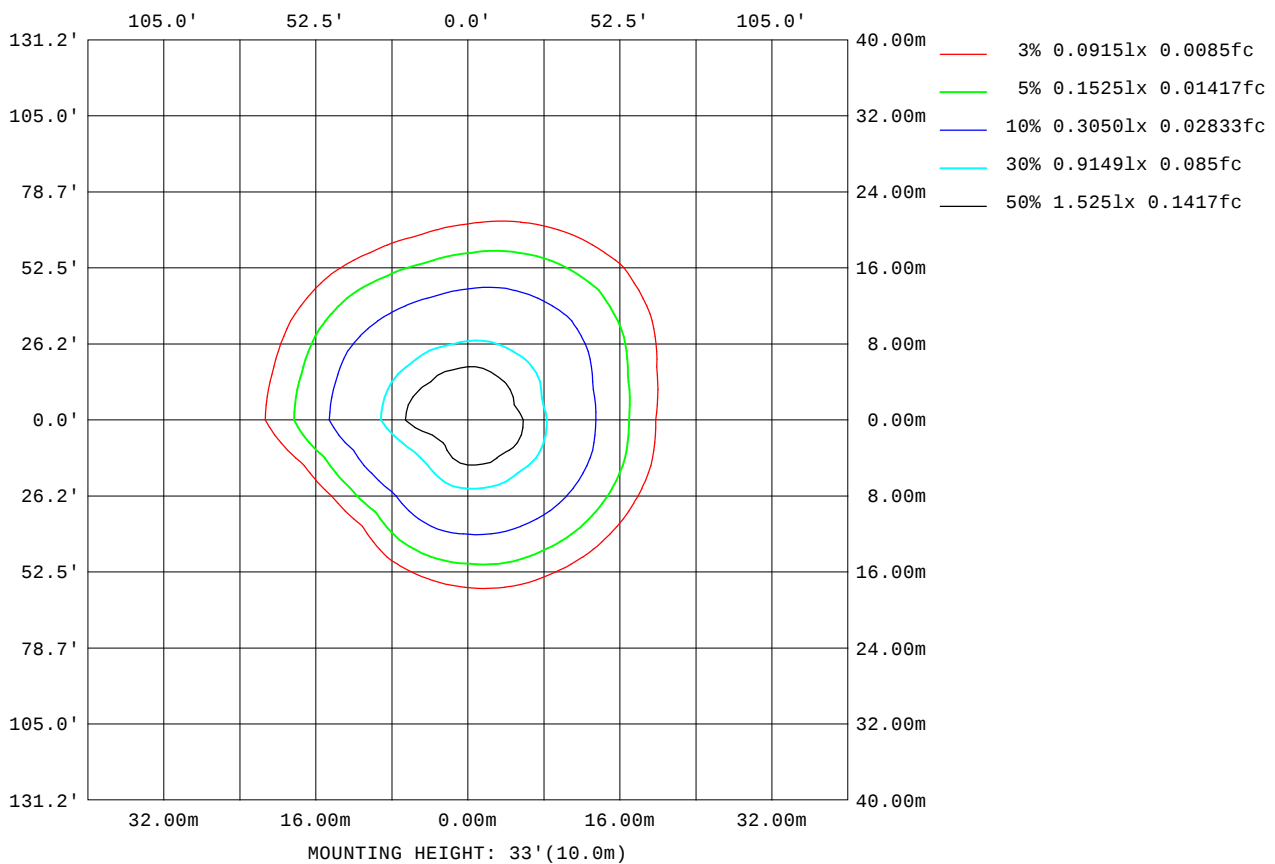
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 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:120.00V I:0.1329A P:11.435W PF:0.7173 Freq:59.98Hz Lamp Flux:747.546x1 lm		
NAME: ASD-UCS-24D12CC-WH	TYPE:	WEIGHT:
SPEC.:4000K	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 G0-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.010m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.00V I:0.1329A P:11.435W PF:0.7173 Freq:59.98Hz Lamp Flux:747.546x1 lm		
NAME: ASD-UCS-24D12CC-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

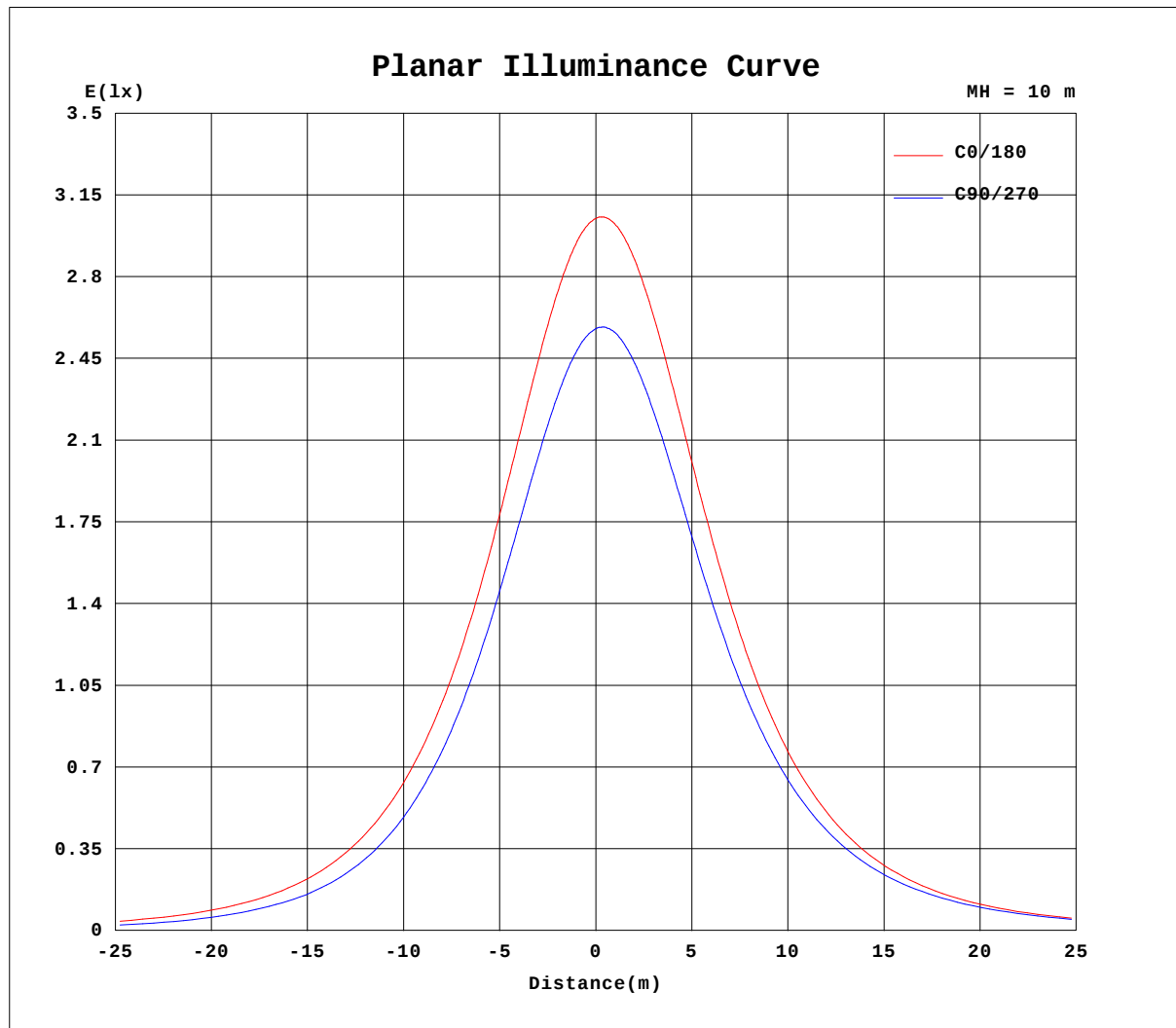
AvgL	cd/m2
L_0~180(65)av	411
L_0~180(75)av	358
L_0~180(85)av	273
L_90~270(65)av	381
L_90~270(75)av	326
L_90~270(85)av	306
L_45(65)av	472
L_45(75)av	443
L_45(85)av	595

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 G0-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 G0-SPEX500_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 3.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.1329A P:11.435W PF:0.7173 Freq:59.98Hz Lamp Flux:747.546x1 lm		
NAME: ASD-UCS-24D12CC-WH	TYPE:	WEIGHT:
SPEC.: 4000K	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	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252	252
5	249	251	250	249	249	249	248	247	246	244	245	250	254	252	253	254	254	254	255
10	242	248	246	244	242	242	240	239	237	234	237	246	253	250	251	253	252	251	254
15	233	242	241	236	234	233	230	230	227	223	228	242	250	247	247	249	248	247	250
20	223	233	233	227	223	222	218	218	215	210	217	238	244	242	242	244	241	239	243
25	210	221	224	216	211	209	204	206	202	196	205	232	235	236	235	237	232	230	234
30	196	206	213	204	196	194	188	191	187	181	192	226	225	228	227	228	220	218	223
35	181	191	198	191	180	178	171	176	171	164	177	217	212	218	217	217	206	204	210
40	166	174	180	176	163	161	153	159	154	146	161	199	197	203	206	205	191	188	195
45	149	157	161	160	145	142	135	139	135	126	143	176	180	185	193	191	174	171	179
50	131	138	141	143	126	123	115	118	115	105	121	151	161	166	178	175	156	154	161
55	113	119	120	123	106	104	95.6	95.7	93.7	81.4	94.3	124	142	145	157	158	137	135	143
60	94.2	99.7	99.7	101	86.3	84.1	76.5	73.3	71.2	57.1	66.3	96.8	120	123	134	139	117	115	124
65	75.5	80.1	79.2	78.3	67.0	64.2	56.6	51.5	46.9	31.5	39.8	69.2	98.1	99.9	110	115	96.7	95.3	104
70	57.5	60.6	58.9	56.5	47.5	44.9	37.6	31.0	23.7	9.58	16.7	42.9	75.5	76.3	85.5	90.0	76.0	75.8	83.8
75	39.7	41.9	39.3	36.1	29.3	26.9	20.2	13.3	5.94	0.75	0.99	20.0	53.0	53.9	61.2	65.7	55.7	55.8	64.1
80	23.5	24.8	21.7	18.1	13.3	11.4	6.35	1.77	0.68	0.67	0.62	1.94	32.1	32.5	38.2	42.1	36.2	36.7	44.3
85	9.81	10.3	7.04	3.78	2.16	1.52	0.42	0.54	0.65	0.61	0.51	0.49	14.0	13.7	17.7	20.6	18.8	19.3	26.2
90	0.46	0.61	0.56	0.57	0.49	0.45	0.52	0.62	0.66	0.70	0.57	0.41	0.68	0.32	1.62	3.43	3.97	4.58	10.0
95	0.35	0.36	0.42	0.49	0.46	0.48	0.63	0.68	0.74	0.83	0.69	0.47	0.18	0.20	0.21	0.24	0.33	0.42	0.49
100	0.46	0.46	0.50	0.63	0.59	0.60	0.77	0.77	0.87	0.96	0.78	0.57	0.25	0.27	0.28	0.27	0.23	0.23	0.19
105	0.58	0.58	0.62	0.70	0.64	0.67	0.87	0.88	1.00	1.06	0.88	0.69	0.34	0.36	0.37	0.36	0.30	0.31	0.28
110	0.70	0.71	0.77	0.83	0.77	0.75	0.90	1.00	1.10	1.14	0.98	0.79	0.43	0.46	0.47	0.46	0.40	0.42	0.38
115	0.81	0.83	0.87	0.95	0.88	0.88	1.00	1.10	1.16	1.21	1.07	0.89	0.51	0.54	0.55	0.55	0.50	0.53	0.50
120	0.90	0.93	0.95	1.05	0.99	0.98	1.09	1.18	1.21	1.28	1.17	0.98	0.58	0.60	0.63	0.63	0.59	0.63	0.61
125	0.94	0.97	1.02	1.11	1.01	1.08	1.19	1.21	1.26	1.34	1.24	1.06	0.63	0.65	0.68	0.70	0.65	0.70	0.69
130	0.94	0.98	1.06	1.13	1.05	1.12	1.22	1.22	1.30	1.40	1.31	1.14	0.66	0.68	0.72	0.76	0.73	0.79	0.77
135	0.91	0.96	1.08	1.16	1.08	1.16	1.22	1.25	1.34	1.46	1.37	1.20	0.68	0.70	0.74	0.81	0.78	0.85	0.84
140	0.86	0.93	1.09	1.20	1.14	1.19	1.22	1.28	1.41	1.52	1.39	1.23	0.69	0.70	0.75	0.84	0.82	0.89	0.88
145	0.84	0.90	1.06	1.21	1.17	1.24	1.26	1.33	1.46	1.53	1.39	1.24	0.69	0.70	0.74	0.84	0.84	0.91	0.91
150	0.80	0.86	1.01	1.19	1.16	1.24	1.26	1.34	1.45	1.51	1.36	1.22	0.69	0.69	0.73	0.82	0.82	0.92	0.91
155	0.77	0.83	0.93	1.11	1.13	1.23	1.25	1.32	1.42	1.43	1.32	1.20	0.67	0.67	0.71	0.77	0.77	0.85	0.85
160	0.71	0.80	0.84	0.96	1.00	1.10	1.14	1.22	1.31	1.30	1.24	1.16	0.64	0.64	0.67	0.73	0.71	0.74	0.71
165	0.64	0.73	0.79	0.84	0.86	0.92	0.98	1.09	1.20	1.21	1.15	1.06	0.59	0.60	0.62	0.72	0.67	0.70	0.64
170	0.64	0.71	0.80	0.82	0.77	0.82	0.85	0.98	1.11	1.16	1.11	1.02	0.60	0.63	0.65	0.69	0.66	0.68	0.67
175	0.62	0.68	0.77	0.83	0.80	0.85	0.84	0.95	1.08	1.10	1.03	0.97	0.61	0.64	0.67	0.74	0.71	0.72	0.71
180	0.66	0.70	0.75	0.85	0.80	0.85	0.87	0.90	1.00	1.08	1.09	0.97	0.66	0.70	0.75	0.85	0.80	0.86	0.87

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 G0-SPEX500_V1 SYSTEM V2.0.402
Humidity: 65.0%
Test Distance: 3.010m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.1329A P:11.435W PF:0.7173 Freq:59.98Hz Lamp Flux:747.546x1 lm		
NAME: ASD-UCS-24D12CC-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2
UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	252	252	252	252	252														
5	256	257	259	258	254														
10	257	260	265	261	255														
15	255	261	268	264	255														
20	251	259	269	264	254														
25	245	255	268	263	252														
30	237	250	266	261	249														
35	227	242	261	257	237														
40	215	232	254	250	221														
45	201	221	246	236	204														
50	186	208	236	218	185														
55	168	193	219	198	166														
60	147	176	197	178	145														
65	126	153	175	156	124														
70	104	129	151	134	103														
75	82.4	104	127	111	81.8														
80	60.6	80.5	103	88.4	60.8														
85	39.6	57.2	78.7	65.7	40.9														
90	20.6	35.3	55.5	44.4	22.8														
95	4.99	15.9	33.9	23.9	8.03														
100	0.16	0.51	10.27	4.21	0.30														
105	0.26	0.23	0.92	0.33	0.40														
110	0.36	0.33	0.28	0.34	0.52														
115	0.48	0.46	0.39	0.46	0.63														
120	0.59	0.58	0.51	0.59	0.74														
125	0.67	0.68	0.63	0.67	0.80														
130	0.77	0.77	0.72	0.74	0.82														
135	0.83	0.83	0.77	0.77	0.82														
140	0.87	0.87	0.81	0.76	0.81														
145	0.89	0.89	0.81	0.74	0.78														
150	0.90	0.88	0.76	0.72	0.74														
155	0.81	0.76	0.69	0.70	0.71														
160	0.69	0.66	0.64	0.65	0.66														
165	0.65	0.63	0.65	0.62	0.64														
170	0.66	0.67	0.70	0.75	0.75														
175	0.73	0.78	0.88	0.92	0.87														
180	0.90	1.01	1.07	1.11	0.97														

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 G0-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.010m [K=1.0000]
Remarks: