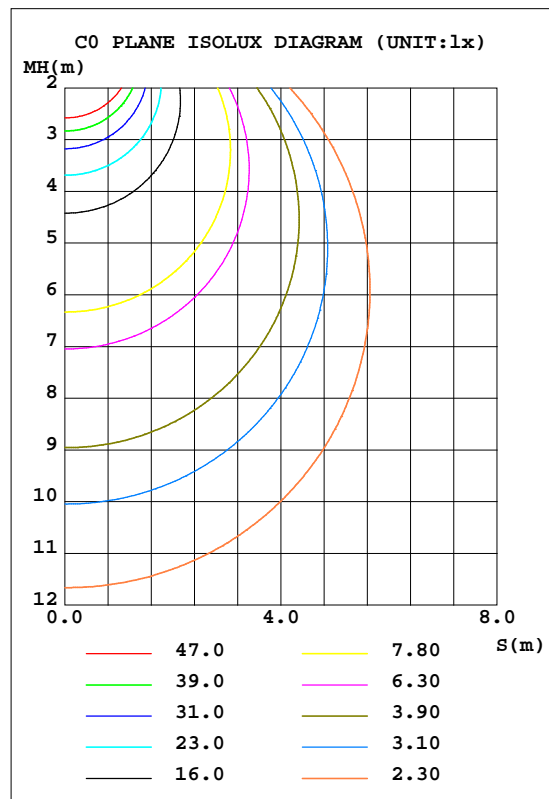
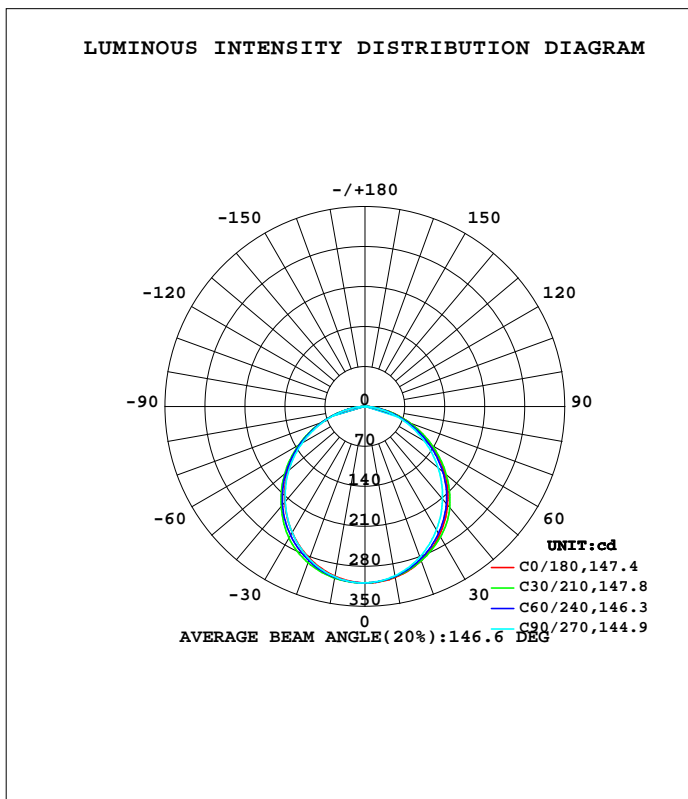


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:0.1112A P:12.680W PF:0.9497 Freq:59.98Hz Lamp Flux:854.273x1 lm		
NAME: ASD-UCL-24D12CC-3000K	TYPE:	WEIGHT:
SPEC.:12W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ASD-UCL-24D12CC-3000K	Imax(cd)	309.1	S/MH(C0/180)	1.23
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.23
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	854.27	h UP, DN(C0-180)	0.3,49.3
NOMINAL FLUX(lm)	854.273	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.2,50.2
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=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	303.9	302.5	301.0	300.9	301.7	304.7	303.1	303.8	0- 10	29.19	29.19	3.42,3.42
20	287.5	285.9	280.7	281.2	283.2	289.5	284.6	286.8	10- 20	83.30	112.5	13.2,13.2
30	260.6	260.9	249.9	251.4	255.0	264.6	255.3	258.8	20- 30	125.4	237.9	27.8,27.8
40	225.0	228.1	211.6	213.9	218.5	229.5	217.5	222.1	30- 40	149.9	387.8	45.4,45.4
50	182.4	186.0	167.5	170.9	176.4	183.5	174.2	178.8	40- 50	153.8	541.6	63.4,63.4
60	134.2	135.3	119.5	123.3	128.7	132.7	126.1	130.3	50- 60	136.9	678.4	79.4,79.4
70	82.88	81.91	71.10	73.73	78.09	80.47	76.15	79.67	60- 70	102.0	780.4	91.4,91.4
80	33.91	31.70	25.75	27.63	30.41	31.14	29.81	32.19	70- 80	56.29	836.7	97.9,97.9
90	0.7566	0.6165	0.2360	0.5832	0.3802	0.5630	0.2888	0.5855	80- 90	13.60	850.3	99.5,99.5
100	0.4353	0.4266	0.4023	0.4282	0.3327	0.3299	0.2927	0.3194	90-100	0.3531	850.6	99.6,99.6
110	0.6696	0.6606	0.6530	0.6479	0.5406	0.4931	0.4801	0.4680	100-110	0.4991	851.1	99.6,99.6
120	0.8641	0.8431	0.8188	0.8098	0.7031	0.6294	0.5984	0.5961	110-120	0.6464	851.8	99.7,99.7
130	0.9483	0.9293	0.9427	0.8761	0.7388	0.7163	0.7046	0.6683	120-130	0.6919	852.5	99.8,99.8
140	0.9178	0.9711	0.9582	0.9226	0.6972	0.7643	0.7996	0.7000	130-140	0.6357	853.1	99.9,99.9
150	0.8619	1.027	0.9824	0.9574	0.6272	0.6560	0.8764	0.6362	140-150	0.5214	853.6	99.9,99.9
160	0.8236	0.8866	0.9820	0.8046	0.5676	0.6385	0.6643	0.6137	150-160	0.3694	854.0	100,100
170	0.7826	0.8476	0.7790	0.7255	0.6353	0.6807	0.7136	0.6477	160-170	0.2062	854.2	100,100
180	0.7522	0.7864	0.7139	0.7261	0.7498	0.7847	0.7154	0.7282	170-180	0.0690	854.3	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=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.05V I:0.1112A P:12.680W PF:0.9497 Freq:59.98Hz Lamp Flux:854.273x1 lm										
NAME: ASD-UCL-24D12CC-3000K					TYPE:			WEIGHT:		
SPEC.:12W					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	10.9	12.4	11.2	12.6	12.8	10.4	11.9	10.7	12.1	12.3
3H	12.4	13.8	12.7	14.0	14.3	11.8	13.2	12.1	13.4	13.7
4H	13.0	14.3	13.3	14.6	14.8	12.3	13.6	12.6	13.9	14.1
6H	13.4	14.7	13.8	14.9	15.2	12.6	13.8	12.9	14.1	14.4
8H	13.5	14.7	13.9	15.0	15.3	12.7	13.9	13.0	14.1	14.5
12H	13.6	14.8	14.0	15.1	15.4	12.7	13.8	13.0	14.1	14.4
4H 2H	11.4	12.7	11.7	13.0	13.3	11.1	12.4	11.4	12.6	12.9
3H	13.1	14.3	13.5	14.6	14.9	12.6	13.8	13.0	14.1	14.4
4H	13.8	14.9	14.2	15.2	15.6	13.2	14.3	13.6	14.6	14.9
6H	14.4	15.3	14.8	15.7	16.0	13.6	14.6	14.0	14.9	15.3
8H	14.6	15.4	15.0	15.8	16.2	13.7	14.6	14.2	15.0	15.4
12H	14.7	15.5	15.1	15.9	16.3	13.8	14.6	14.2	15.0	15.4
8H 4H	14.0	14.9	14.5	15.3	15.7	13.5	14.3	13.9	14.7	15.1
6H	14.7	15.4	15.2	15.8	16.3	14.0	14.7	14.5	15.2	15.6
8H	15.0	15.6	15.4	16.0	16.5	14.2	14.8	14.7	15.3	15.7
12H	15.1	15.7	15.6	16.2	16.6	14.3	14.8	14.8	15.3	15.8
12H 4H	14.0	14.8	14.5	15.2	15.6	13.5	14.3	13.9	14.7	15.1
6H	14.7	15.4	15.2	15.8	16.3	14.1	14.7	14.5	15.1	15.6
8H	15.0	15.6	15.5	16.0	16.5	14.3	14.8	14.8	15.3	15.8
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 / - 0.4				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

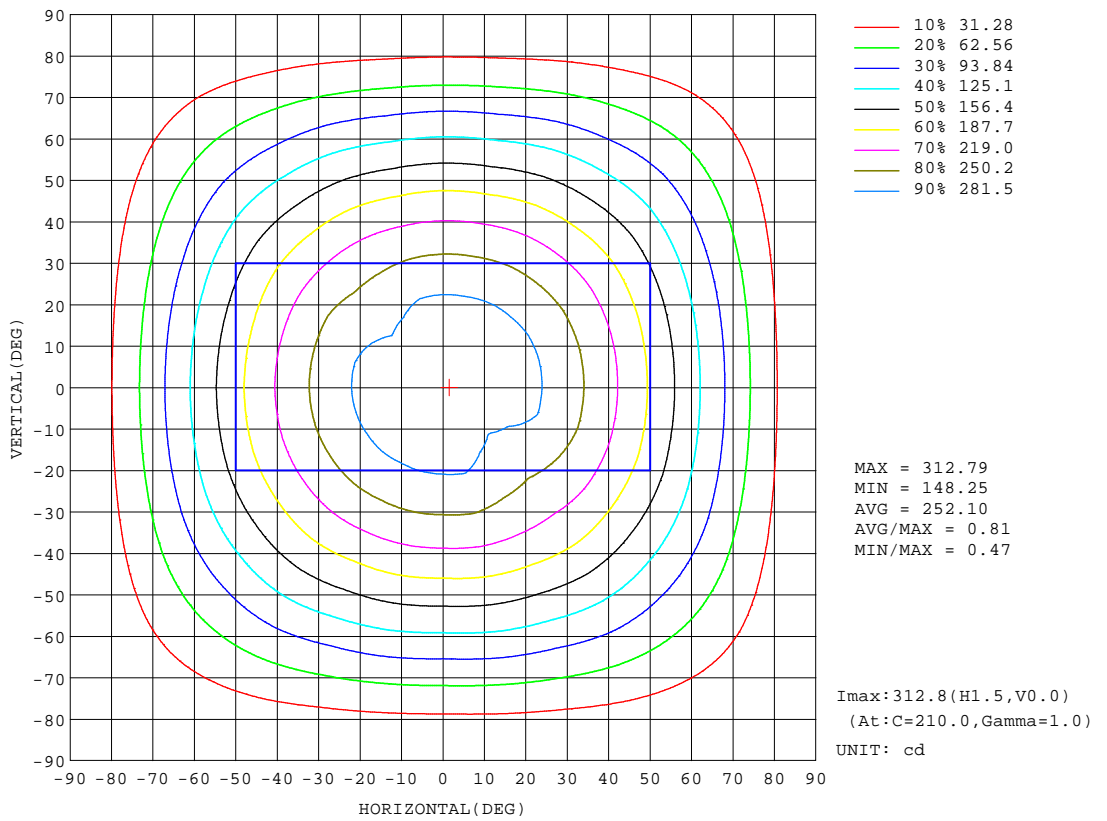
CIE Pub.117, 854.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.5)

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=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.05V I:0.1112A P:12.680W PF:0.9497 Freq:59.98Hz Lamp Flux:854.273x1 lm		
NAME: ASD-UCL-24D12CC-3000K	TYPE:	WEIGHT:
SPEC.:12W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



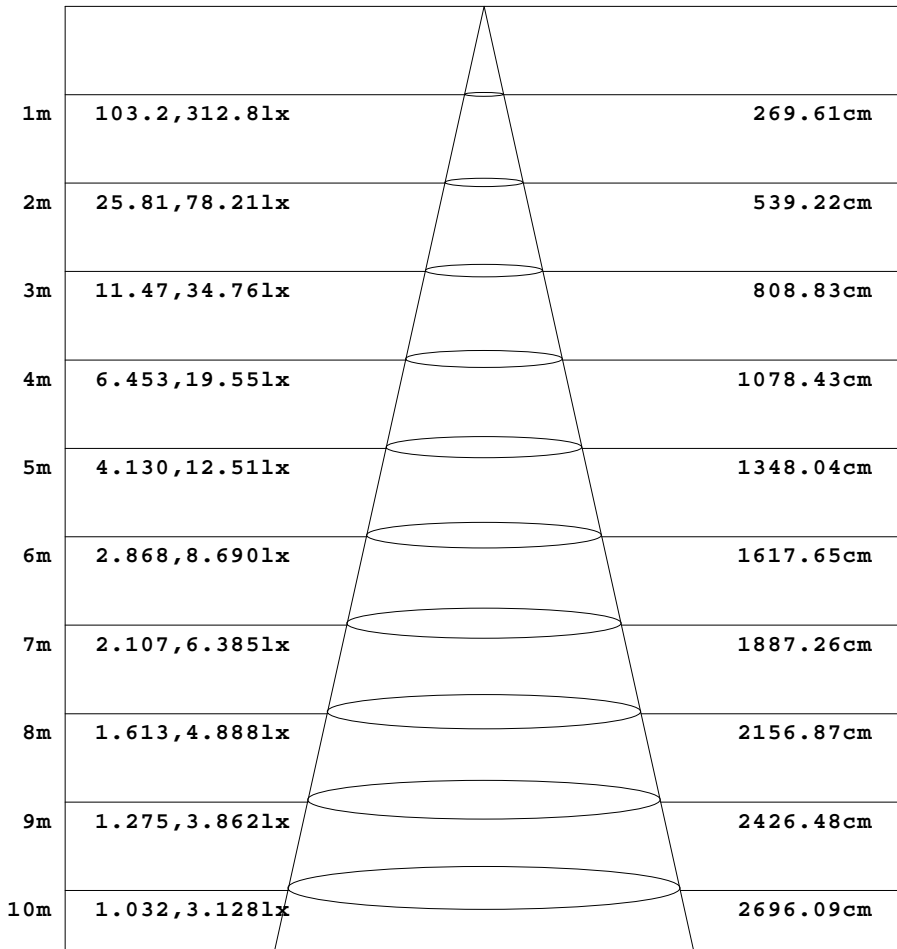
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:10 March 2021

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=1.0000]  
 Remarks:

AAI Figure

Test:U:120.05V I:0.1112A P:12.680W PF:0.9497 Freq:59.98Hz Lamp Flux:854.273x1 lm		
NAME: ASD-UCL-24D12CC-3000K	TYPE:	WEIGHT:
SPEC.:12W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:592.4 lm



Height                      Eavg, Emax                      Angle:106.86deg                      Diameter

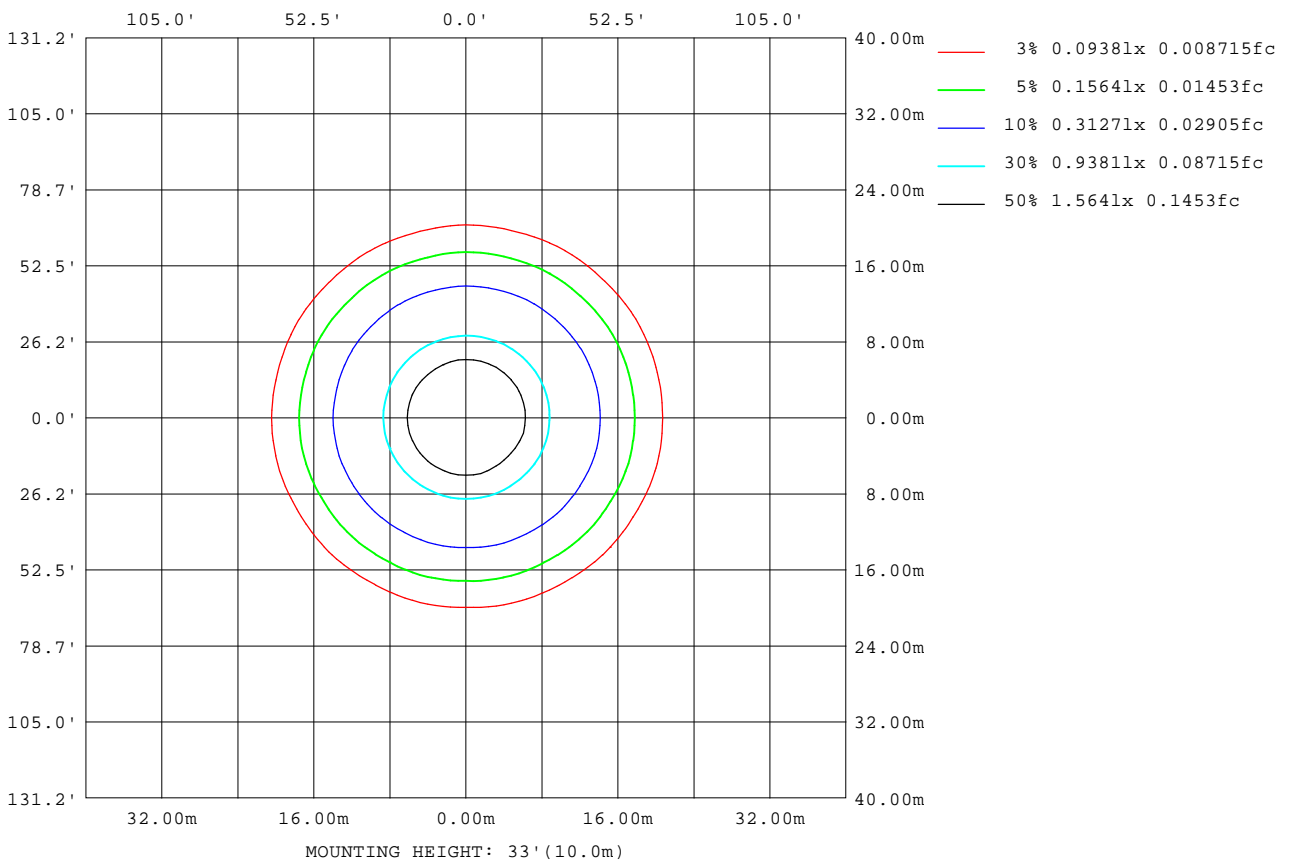
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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=1.0000]  
 Remarks:

ISOLUX DIAGRAM

Test:U:120.05V I:0.1112A P:12.680W PF:0.9497 Freq:59.98Hz Lamp Flux:854.273x1 lm		
NAME: ASD-UCL-24D12CC-3000K	TYPE:	WEIGHT:
SPEC.:12W	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=1.0000]  
 Remarks:

LED Avg.L Report

Test:U:120.05V I:0.1112A P:12.680W PF:0.9497 Freq:59.98Hz Lamp Flux:854.273x1 lm		
NAME: ASD-UCL-24D12CC-3000K	TYPE:	WEIGHT:
SPEC.:12W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

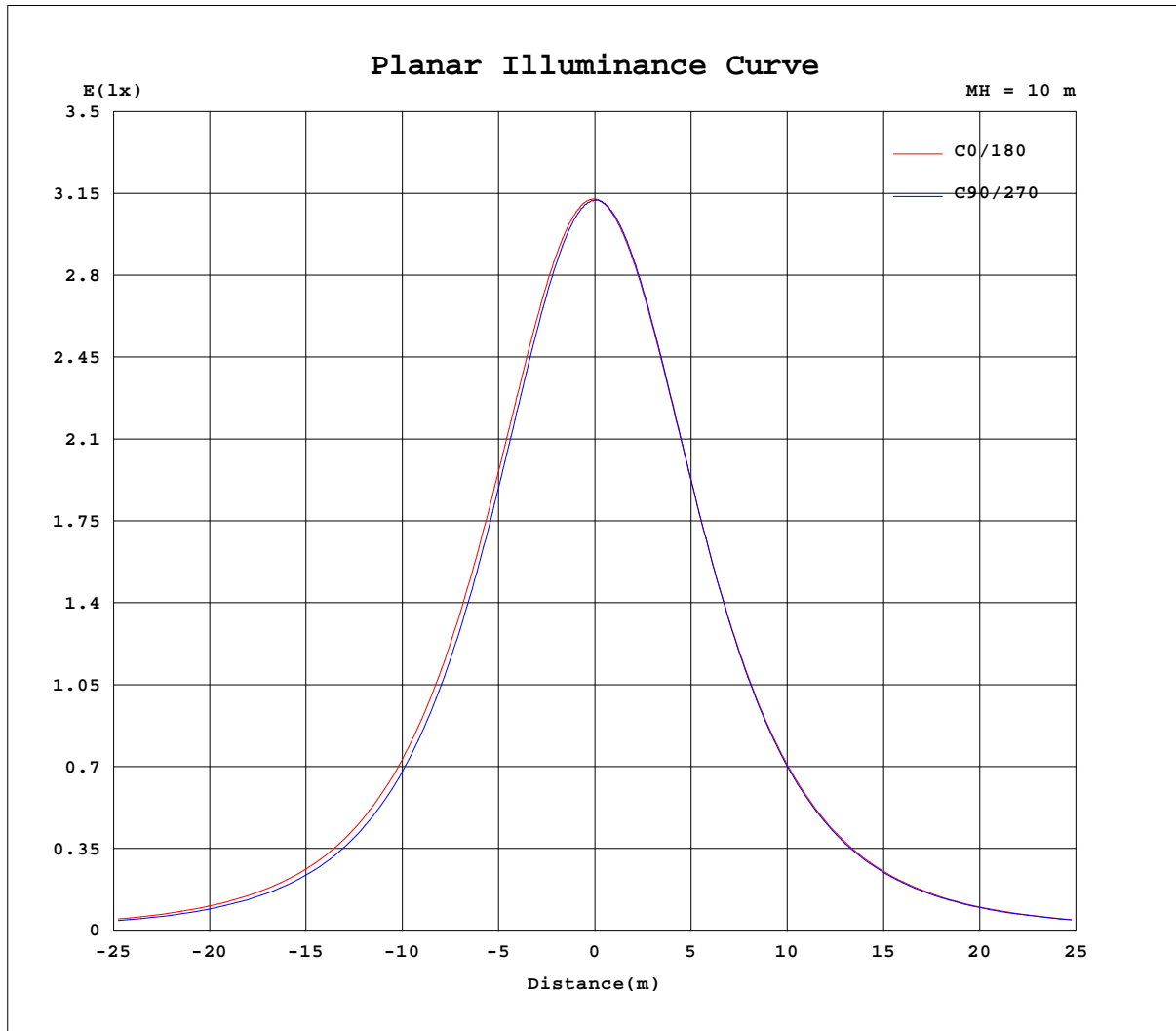
AvgL	cd/m2
L_0~180(65)av	502
L_0~180(75)av	428
L_0~180(85)av	295
L_90~270(65)av	464
L_90~270(75)av	384
L_90~270(85)av	219
L_45(65)av	495
L_45(75)av	416
L_45(85)av	260

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=1.0000]  
 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=1.0000]  
 Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:0.1112A P:12.680W PF:0.9497 Freq:59.98Hz Lamp Flux:854.273x1 lm		
NAME: ASD-UCL-24D12CC-3000K	TYPE:	WEIGHT:
SPEC.:12W	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	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309	309
5	308	308	307	307	307	307	307	307	306	306	306	307	307	308	308	308	308	308	308
10	304	304	303	302	302	302	301	301	301	301	301	301	302	303	305	305	304	303	303
15	297	297	296	295	294	293	292	292	292	292	293	293	294	295	299	298	297	295	295
20	287	288	287	286	284	282	281	281	280	281	282	283	283	285	291	289	287	284	285
25	275	276	277	274	272	268	267	267	266	267	268	269	270	271	280	278	275	270	271
30	261	261	264	261	257	252	250	250	250	251	252	254	255	256	266	265	261	254	255
35	244	244	249	245	241	234	232	232	232	233	235	237	238	239	248	248	244	236	237
40	225	225	231	228	222	214	212	212	212	214	215	218	218	219	228	230	225	216	217
45	204	205	209	209	201	193	190	191	191	193	194	197	198	198	207	207	204	195	196
50	182	183	186	186	178	170	167	168	168	171	172	175	176	176	184	184	180	172	174
55	159	159	161	161	153	147	144	145	145	148	149	152	153	153	159	159	156	149	151
60	134	135	136	135	128	123	120	121	120	123	124	128	129	128	134	133	131	124	126
65	109	109	109	109	102	97.8	94.9	96.2	95.5	98.5	99.2	103	104	103	107	106	105	99.2	101
70	82.9	82.9	83.0	81.9	77.1	72.9	71.1	71.5	71.8	73.7	75.0	77.2	78.1	78.0	81.0	80.5	78.8	75.2	76.1
75	57.7	57.3	57.0	55.9	51.8	48.8	47.4	47.7	47.9	49.6	50.6	52.5	53.2	53.0	55.2	54.7	53.6	51.1	52.0
80	33.9	33.8	32.9	31.7	28.9	27.0	25.7	26.0	26.1	27.6	28.4	29.9	30.4	30.2	31.7	31.1	30.7	29.0	29.8
85	14.0	13.9	12.2	11.5	9.66	8.92	8.15	8.38	8.55	9.54	10.1	11.4	11.7	11.5	12.3	11.5	11.4	10.3	11.0
90	0.76	0.57	0.49	0.62	0.45	0.22	0.24	0.24	0.47	0.58	0.48	0.46	0.38	0.62	0.54	0.56	0.43	0.30	0.29
95	0.34	0.32	0.33	0.32	0.30	0.28	0.28	0.29	0.31	0.32	0.34	0.35	0.23	0.24	0.27	0.27	0.24	0.24	0.27
100	0.44	0.42	0.43	0.43	0.41	0.39	0.40	0.40	0.42	0.43	0.45	0.45	0.33	0.32	0.33	0.33	0.30	0.32	0.29
105	0.55	0.53	0.55	0.55	0.54	0.52	0.53	0.53	0.54	0.55	0.55	0.56	0.44	0.42	0.42	0.41	0.40	0.40	0.40
110	0.67	0.65	0.67	0.66	0.66	0.64	0.65	0.65	0.65	0.65	0.66	0.67	0.54	0.51	0.51	0.49	0.49	0.48	0.48
115	0.76	0.74	0.77	0.77	0.74	0.73	0.74	0.74	0.74	0.74	0.75	0.76	0.62	0.59	0.59	0.57	0.55	0.54	0.54
120	0.86	0.84	0.85	0.84	0.84	0.80	0.82	0.81	0.82	0.81	0.83	0.85	0.70	0.66	0.66	0.63	0.60	0.59	0.60
125	0.92	0.89	0.90	0.89	0.89	0.88	0.90	0.87	0.87	0.85	0.87	0.90	0.74	0.70	0.70	0.68	0.64	0.63	0.65
130	0.95	0.92	0.94	0.93	0.92	0.92	0.94	0.91	0.89	0.88	0.90	0.91	0.74	0.71	0.74	0.72	0.69	0.70	0.70
135	0.94	0.91	0.95	0.95	0.93	0.94	0.96	0.92	0.90	0.90	0.92	0.89	0.73	0.70	0.73	0.73	0.73	0.73	0.75
140	0.92	0.89	0.97	0.97	0.95	0.93	0.96	0.91	0.91	0.92	0.93	0.87	0.70	0.68	0.70	0.76	0.73	0.76	0.80
145	0.89	0.88	0.97	1.01	0.96	0.95	0.96	0.93	0.93	0.96	0.92	0.87	0.66	0.67	0.68	0.75	0.79	0.79	0.81
150	0.86	0.88	0.93	1.03	1.02	0.99	0.98	0.96	0.98	0.96	0.87	0.86	0.63	0.64	0.65	0.66	0.77	0.85	0.88
155	0.84	0.87	0.90	0.97	1.02	1.07	1.06	1.01	0.94	0.91	0.83	0.84	0.59	0.61	0.66	0.64	0.64	0.72	0.77
160	0.82	0.86	0.86	0.89	0.95	0.98	0.98	0.95	0.88	0.80	0.78	0.81	0.57	0.58	0.62	0.64	0.66	0.66	0.66
165	0.78	0.81	0.85	0.85	0.85	0.85	0.85	0.82	0.78	0.74	0.74	0.73	0.56	0.56	0.61	0.67	0.69	0.67	0.66
170	0.78	0.81	0.86	0.85	0.82	0.79	0.78	0.76	0.74	0.73	0.73	0.73	0.64	0.61	0.64	0.68	0.69	0.68	0.71
175	0.77	0.79	0.83	0.84	0.79	0.77	0.76	0.74	0.73	0.73	0.70	0.70	0.67	0.65	0.67	0.71	0.71	0.69	0.69
180	0.75	0.75	0.77	0.79	0.75	0.72	0.71	0.67	0.68	0.73	0.71	0.71	0.75	0.75	0.77	0.78	0.75	0.72	0.72

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=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:0.1112A P:12.680W PF:0.9497 Freq:59.98Hz Lamp Flux:854.273x1 lm		
NAME: ASD-UCL-24D12CC-3000K	TYPE:	WEIGHT:
SPEC.:12W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2 UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	309	309	309	309	309														
5	308	308	308	308	308														
10	304	304	304	304	304														
15	296	297	297	298	297														
20	285	286	287	288	288														
25	272	273	274	276	275														
30	256	258	259	261	261														
35	238	240	241	244	244														
40	218	221	222	225	225														
45	197	200	201	204	204														
50	174	178	179	182	182														
55	151	154	155	159	159														
60	126	129	130	134	134														
65	101	104	105	109	108														
70	76.7	78.8	79.7	82.6	82.7														
75	52.4	54.2	55.1	57.2	57.7														
80	30.0	31.5	32.2	33.8	34.0														
85	11.0	12.3	12.7	14.1	14.0														
90	0.33	0.46	0.59	0.69	0.77														
95	0.28	0.28	0.28	0.29	0.23														
100	0.31	0.31	0.32	0.31	0.31														
105	0.39	0.39	0.40	0.39	0.40														
110	0.47	0.47	0.47	0.47	0.49														
115	0.53	0.52	0.54	0.55	0.57														
120	0.58	0.58	0.60	0.61	0.66														
125	0.62	0.61	0.64	0.65	0.69														
130	0.69	0.65	0.67	0.70	0.72														
135	0.73	0.68	0.67	0.69	0.71														
140	0.75	0.69	0.70	0.68	0.70														
145	0.78	0.74	0.69	0.67	0.69														
150	0.85	0.73	0.64	0.65	0.67														
155	0.71	0.62	0.63	0.66	0.65														
160	0.65	0.61	0.61	0.63	0.63														
165	0.65	0.64	0.63	0.62	0.61														
170	0.67	0.64	0.65	0.66	0.67														
175	0.64	0.62	0.67	0.70	0.70														
180	0.67	0.68	0.73	0.71	0.71														

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:10 March 2021	Remarks: