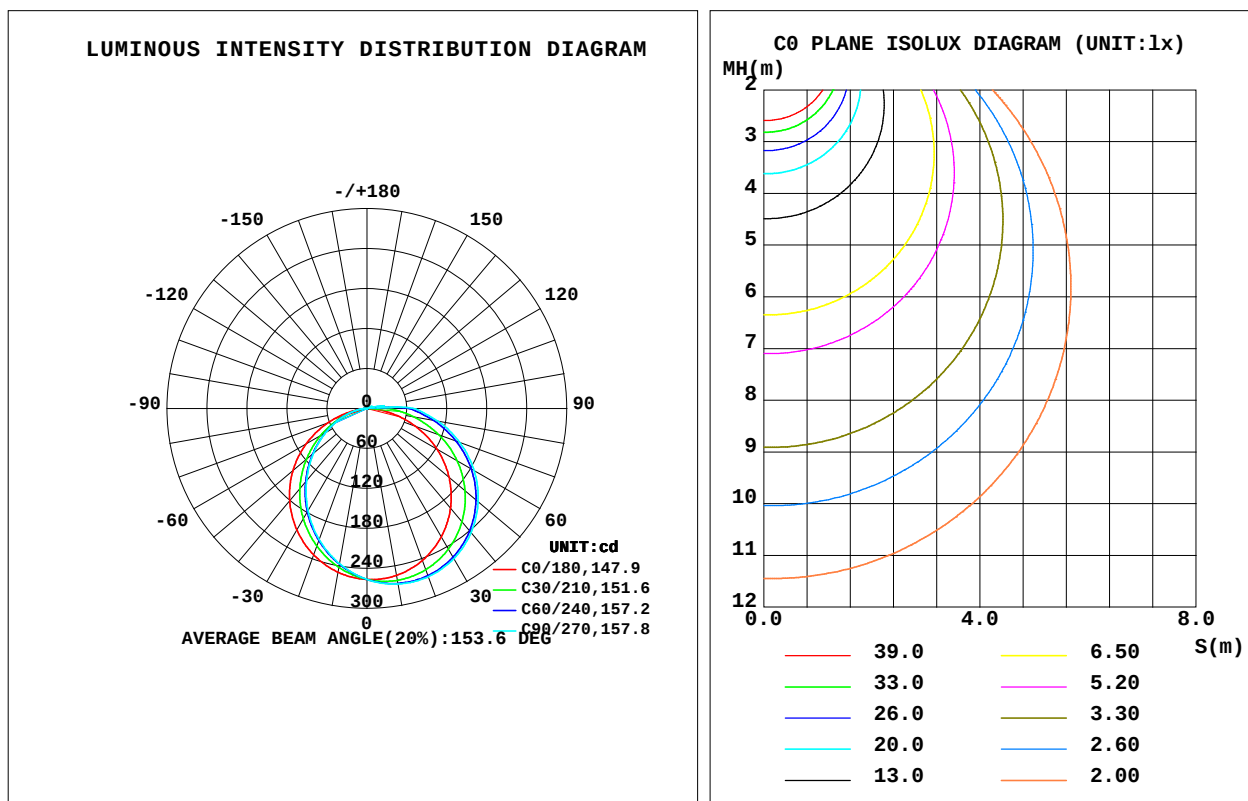


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.92V I:0.1017A P:11.590W PF:0.9503 Freq:59.98Hz Lamp Flux:822.555x1 lm		
NAME: ASD-UCB-24D12CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:12W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.97 lm/W			
MODEL: ASD-UCB-24D12CC-WH-5000K		I _{max} (cd)	269.9	S/MH(C0/180)	1.23
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.05
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	822.56	h UP, DN(C0-180)	2.3, 61.0
NOMINAL FLUX(lm)	822.555	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.3, 36.3
LAMPS INSIDE	1	h up(%)	2.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	97.4	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 21 April 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=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
10	254.4	263.9	267.5	264.9	249.7	240.3	236.8	241.5	0- 10	24.29	24.29	2.95, 2.95
20	242.8	263.1	268.9	264.9	234.0	215.3	209.5	220.0	10- 20	69.79	94.08	11.4, 11.4
30	222.9	253.6	260.5	257.2	210.6	184.2	177.0	193.3	20- 30	106.5	200.6	24.4, 24.4
40	195.3	233.9	243.2	240.9	180.7	148.2	141.1	162.1	30- 40	129.8	330.4	40.2, 40.2
50	161.1	206.2	217.8	210.0	145.1	110.4	105.1	127.0	40- 50	136.8	467.2	56.8, 56.8
60	121.0	172.2	185.5	171.5	104.8	74.15	70.90	87.98	50- 60	127.0	594.2	72.2, 72.2
70	77.07	131.9	147.7	127.5	61.52	40.85	40.42	48.81	60- 70	102.7	696.9	84.7, 84.7
80	31.64	89.82	107.1	79.80	20.50	14.65	15.88	17.47	70- 80	68.88	765.7	93.1, 93.1
90	0.9804	50.48	70.52	40.36	0.3166	0.7259	1.571	1.127	80- 90	35.24	801.0	97.4, 97.4
100	0.5536	11.26	24.58	5.380	0.5076	0.8251	0.9084	0.7650	90-100	11.13	812.1	98.7, 98.7
110	0.9255	5.711	8.245	3.520	0.7391	1.004	1.133	0.9803	100-110	3.672	815.8	99.2, 99.2
120	1.138	3.059	5.122	2.649	0.8488	0.9542	1.130	0.9823	110-120	2.400	818.2	99.5, 99.5
130	1.188	2.904	3.064	2.657	0.7987	0.9259	0.9891	0.9281	120-130	1.607	819.8	99.7, 99.7
140	1.089	2.252	2.836	2.135	0.7388	0.8822	0.8916	0.8650	130-140	1.217	821.0	99.8, 99.8
150	0.9935	1.194	2.792	1.083	0.6574	0.7616	0.8379	0.8122	140-150	0.8434	821.8	99.9, 99.9
160	0.8360	0.9732	1.043	0.9209	0.5804	0.5748	0.6737	0.6698	150-160	0.4228	822.3	100, 100
170	0.7137	0.9154	1.120	0.9178	0.5488	0.4748	0.5413	0.6047	160-170	0.2180	822.5	100, 100
180	0.6178	0.5954	0.6303	0.7016	0.6175	0.5924	0.6275	0.7000	170-180	0.0647	822.6	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:21 April 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=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.92V I:0.1017A P:11.590W PF:0.9503 Freq:59.98Hz Lamp Flux:822.555x1 lm											
NAME: ASD-UCB-24D12CC-WH-5000K					TYPE:0			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	11.4	12.9	11.7	13.2	13.4	12.9	14.4	13.2	14.7	14.9	
	3H	13.0	14.4	13.3	14.7	15.0	15.2	16.6	15.6	16.9	
	4H	13.6	15.0	14.0	15.3	15.6	16.4	17.8	16.8	18.1	
	6H	14.1	15.4	14.5	15.7	16.0	17.7	19.0	18.1	19.3	
	8H	14.2	15.4	14.6	15.8	16.1	18.3	19.6	18.7	19.9	
	12H	14.3	15.5	14.7	15.8	16.2	19.0	20.2	19.4	20.6	
4H	2H	12.5	13.8	12.8	14.1	14.4	13.6	14.9	13.9	15.2	
	3H	14.4	15.5	14.7	15.9	16.3	16.1	17.3	16.5	17.7	
	4H	15.2	16.3	15.6	16.6	17.0	17.5	18.6	18.0	19.0	
	6H	15.8	16.8	16.3	17.2	17.6	19.0	20.0	19.5	20.4	
	8H	16.0	16.9	16.5	17.4	17.8	19.8	20.7	20.2	21.1	
	12H	16.2	17.0	16.6	17.4	17.9	20.6	21.5	21.1	21.9	
8H	4H	16.0	16.9	16.5	17.3	17.8	17.9	18.9	18.4	19.3	
	6H	17.0	17.7	17.5	18.2	18.7	19.7	20.5	20.2	20.9	
	8H	17.4	18.1	17.9	18.5	19.0	20.6	21.3	21.2	21.8	
	12H	17.7	18.3	18.2	18.7	19.3	21.7	22.3	22.3	22.8	
12H	4H	16.2	17.1	16.7	17.5	18.0	18.0	18.8	18.4	19.3	
	6H	17.4	18.1	17.9	18.5	19.0	19.8	20.5	20.3	21.0	
	8H	17.9	18.5	18.4	19.0	19.5	20.9	21.5	21.4	22.0	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.5					+ 0.2 / - 0.4					

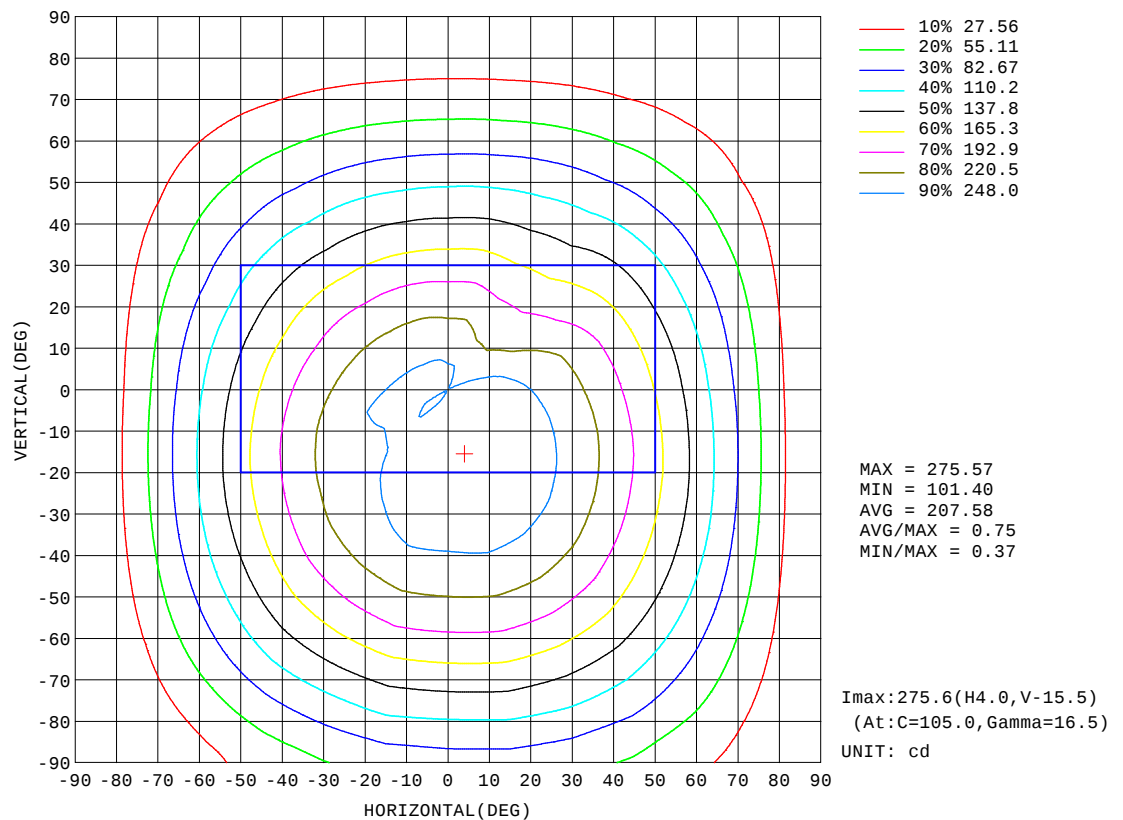
CIE Pub.117, 822.6 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.7)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:21 April 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:119.92V I:0.1017A P:11.590W PF:0.9503 Freq:59.98Hz Lamp Flux:822.555x1 lm		
NAME: ASD-UCB-24D12CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:12W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



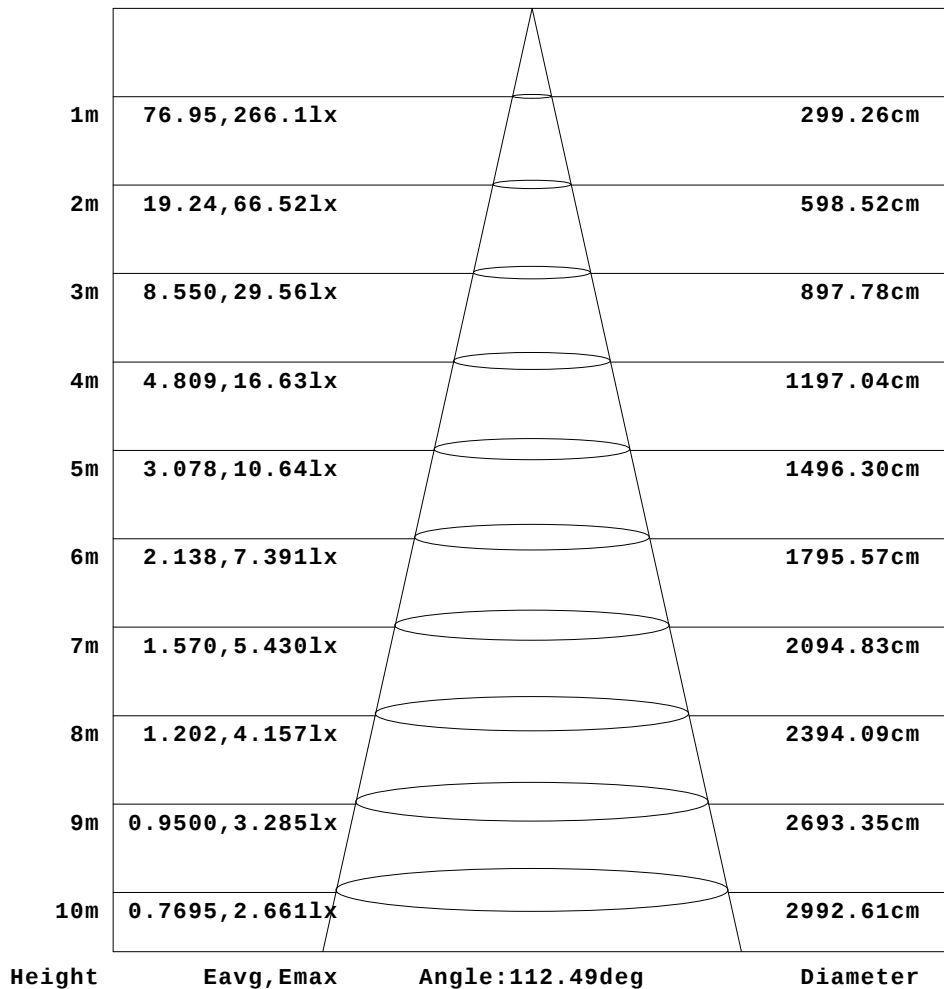
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 21 April 2021

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=1.0000]
Remarks:

AAI Figure

Test:U:119.92V I:0.1017A P:11.590W PF:0.9503 Freq:59.98Hz Lamp Flux:822.555x1 lm		
NAME: ASD-UCB-24D12CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:12W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:551.8 lm



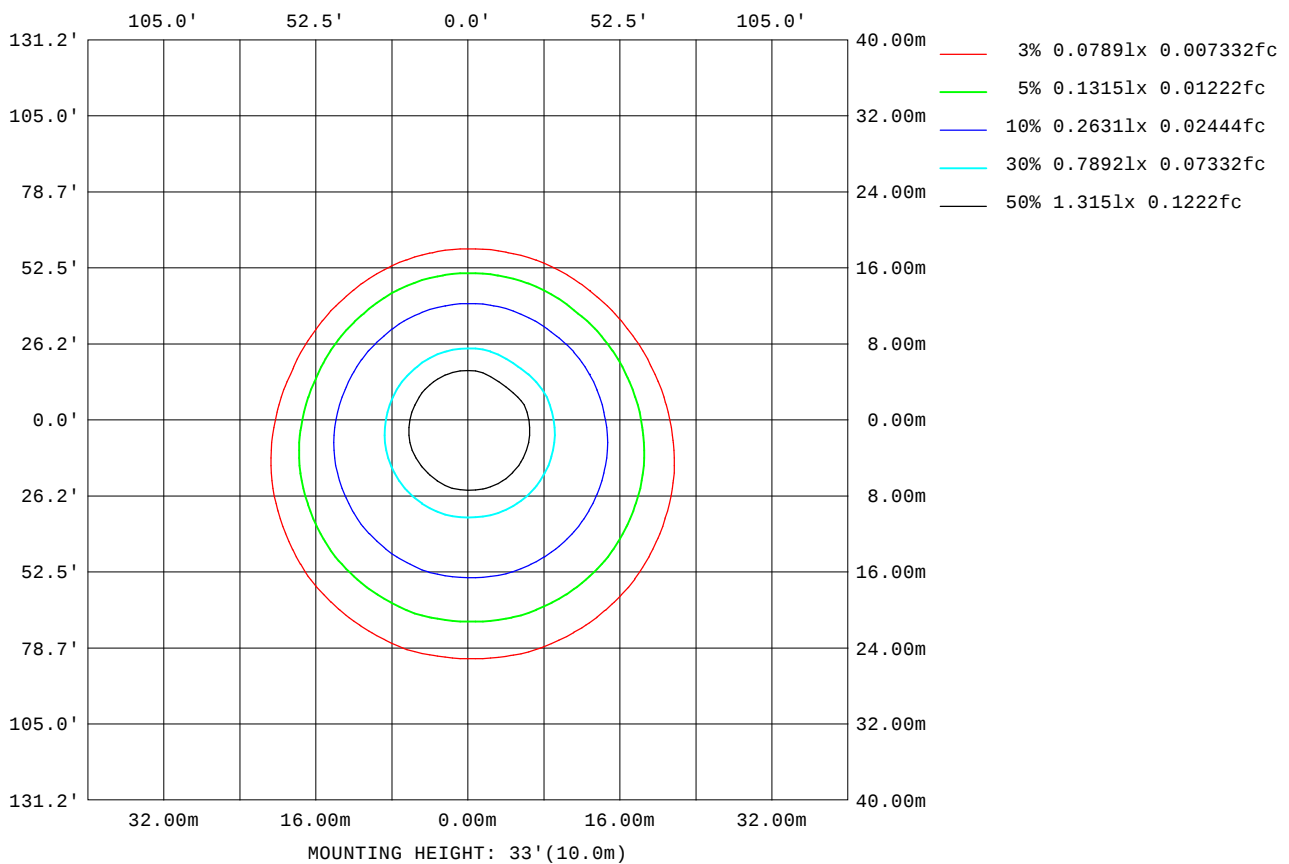
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:21 April 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=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:119.92V I:0.1017A P:11.590W PF:0.9503 Freq:59.98Hz Lamp Flux:822.555x1 lm		
NAME: ASD-UCB-24D12CC-WH-5000K	TYPE:0	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:21 April 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=1.0000]
 Remarks:

LED Avg.L Report

Test:U:119.92V I:0.1017A P:11.590W PF:0.9503 Freq:59.98Hz Lamp Flux:822.555x1 lm		
NAME: ASD-UCB-24D12CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:12W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

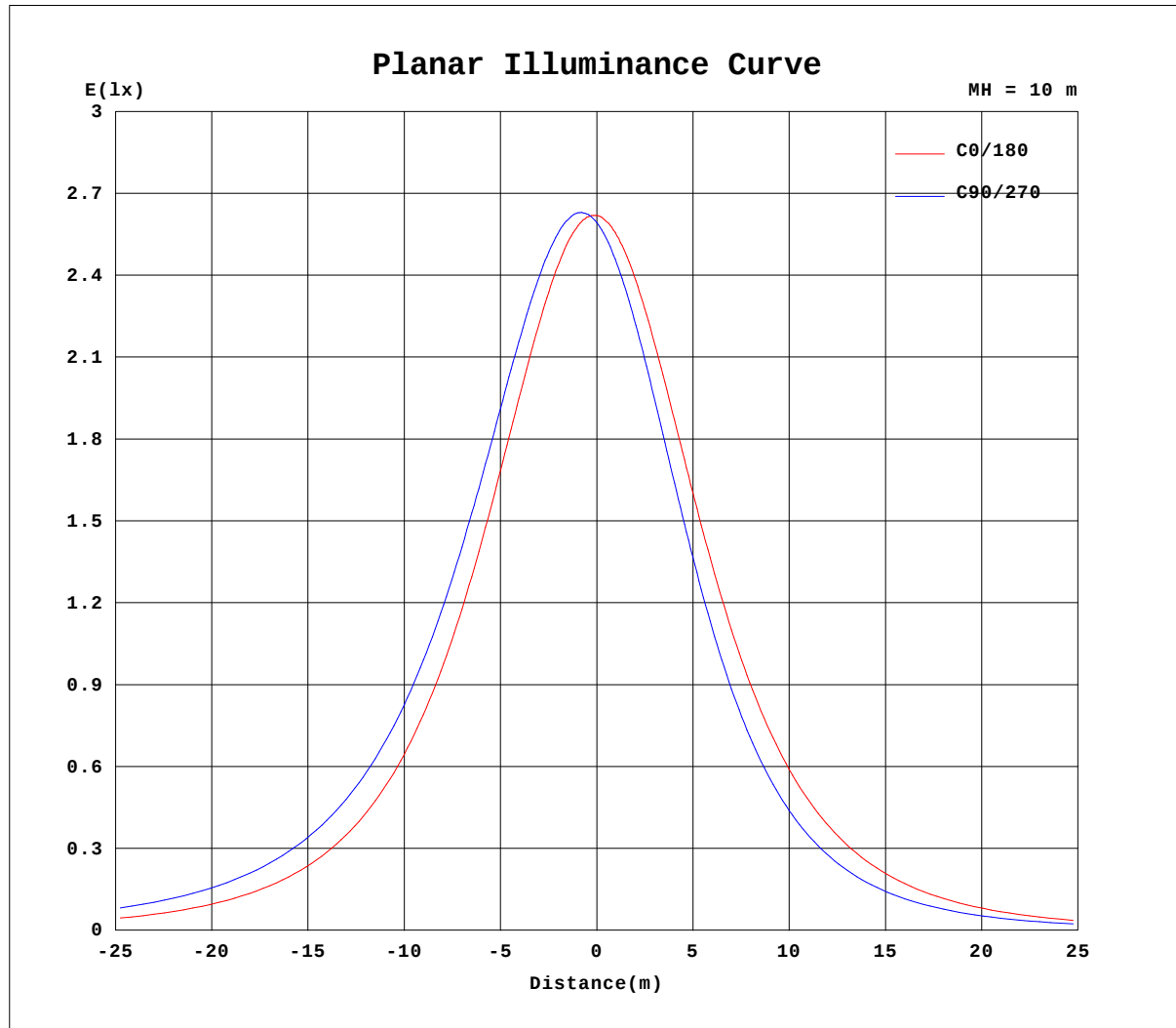
AvgL	cd/m2
L_0~180(65)av	432
L_0~180(75)av	363
L_0~180(85)av	206
L_90~270(65)av	526
L_90~270(75)av	600
L_90~270(85)av	1077
L_45(65)av	506
L_45(75)av	526
L_45(85)av	792

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:21 April 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=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 21 April 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=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.92V I:0.1017A P:11.590W PF:0.9503 Freq:59.98Hz Lamp Flux:822.555x1 lm		
NAME: ASD-UCB-24D12CC-WH-5000K	TYPE:0	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	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257
5	257	259	260	261	263	263	263	263	263	262	260	258	254	252	251	250	248	248	248
10	254	258	262	264	267	267	268	267	267	265	261	257	250	246	242	240	237	237	237
15	250	256	261	264	268	269	269	270	268	266	261	254	243	237	232	229	225	224	224
20	243	251	258	263	267	269	269	269	268	265	259	247	234	226	220	215	211	209	210
25	234	244	252	260	264	266	266	267	266	262	255	237	223	214	206	200	196	193	194
30	223	234	244	254	258	260	261	261	262	257	249	226	211	200	191	184	179	176	177
35	210	223	234	245	250	253	253	254	255	250	238	213	196	184	175	167	162	158	159
40	195	210	222	234	240	243	243	243	246	241	224	199	181	167	157	148	143	140	141
45	179	195	208	221	228	231	231	231	234	227	207	182	164	149	138	129	125	122	123
50	161	178	192	206	214	218	218	217	219	210	190	165	145	129	119	110	107	104	105
55	142	160	175	190	198	202	202	201	201	192	170	145	125	109	99.2	91.7	88.8	86.4	87.6
60	121	140	156	172	180	186	185	184	182	172	150	125	105	88.3	79.7	74.2	71.6	70.3	70.9
65	99.1	119	136	153	162	167	167	165	162	150	128	103	83.4	68.4	60.9	56.9	55.2	54.5	55.0
70	77.1	96.9	114	132	142	148	148	145	140	127	104	81.0	61.5	48.4	43.3	40.8	40.2	39.8	40.4
75	54.0	73.8	91.9	110	121	128	128	125	117	104	81.3	58.2	39.9	30.0	27.6	26.6	26.7	26.6	27.2
80	31.6	50.5	70.4	89.8	101	108	107	105	95.7	79.8	56.9	35.7	20.5	14.9	14.7	14.6	15.3	15.3	15.9
85	12.2	29.3	49.3	67.7	80.6	87.3	87.0	84.4	74.5	57.6	34.7	15.5	5.70	4.78	5.34	5.76	6.35	6.51	6.85
90	0.98	14.3	32.1	50.5	63.3	69.6	70.5	66.6	56.5	40.4	20.5	4.23	0.32	0.37	0.53	0.73	1.16	1.29	1.57
95	0.39	3.59	13.9	17.5	21.3	25.6	24.3	20.1	11.7	14.1	5.21	0.81	0.38	0.46	0.55	0.66	0.70	0.73	0.73
100	0.55	1.86	5.73	11.3	19.2	23.7	24.6	18.2	9.38	5.38	2.40	0.65	0.51	0.64	0.73	0.83	0.88	0.91	0.91
105	0.73	1.38	4.03	7.24	9.19	10.0	9.64	8.70	6.92	4.70	1.75	0.95	0.62	0.74	0.86	0.95	1.02	1.05	1.03
110	0.93	1.52	2.85	5.71	7.44	9.13	8.24	7.54	5.56	3.52	1.71	1.15	0.74	0.83	0.90	1.00	1.10	1.16	1.13
115	1.05	1.77	2.31	4.06	5.93	7.65	6.98	6.18	4.08	2.68	1.89	1.20	0.81	0.88	0.94	1.01	1.11	1.15	1.14
120	1.14	1.82	2.11	3.06	4.23	5.68	5.12	4.38	3.10	2.65	2.15	1.21	0.85	0.92	0.98	0.95	1.08	1.13	1.13
125	1.21	1.76	2.04	2.94	3.34	4.04	3.54	3.23	2.92	2.71	1.82	1.22	0.84	0.89	0.92	0.94	0.97	1.06	1.09
130	1.19	1.59	1.97	2.90	3.10	3.50	3.06	3.03	2.99	2.66	1.64	1.08	0.80	0.83	0.89	0.93	0.97	0.99	0.99
135	1.16	1.43	1.97	2.80	2.94	3.38	3.04	2.98	3.05	2.04	1.42	1.04	0.77	0.78	0.85	0.92	0.92	0.92	0.94
140	1.09	1.31	1.64	2.25	3.27	3.14	2.84	2.98	2.57	2.13	1.20	0.88	0.74	0.74	0.81	0.88	0.90	0.88	0.89
145	1.04	1.23	1.41	2.17	2.66	3.23	3.18	2.73	2.24	1.23	1.09	0.87	0.70	0.72	0.76	0.81	0.86	0.87	0.90
150	0.99	1.19	1.20	1.19	1.44	2.71	2.79	2.53	1.06	1.08	0.84	0.83	0.66	0.67	0.68	0.76	0.77	0.80	0.84
155	0.92	1.13	1.02	1.07	1.11	1.24	1.17	1.07	0.97	0.99	0.94	0.78	0.61	0.62	0.62	0.67	0.72	0.74	0.77
160	0.84	1.08	1.04	0.97	1.13	1.05	1.04	1.10	1.04	0.92	0.88	0.70	0.58	0.58	0.58	0.57	0.60	0.64	0.67
165	0.74	0.96	0.98	1.04	0.98	1.05	1.06	1.01	1.08	0.93	0.80	0.57	0.53	0.53	0.52	0.53	0.53	0.52	0.55
170	0.71	0.86	0.93	0.92	0.98	1.09	1.12	1.01	0.99	0.92	0.81	0.59	0.55	0.51	0.49	0.47	0.49	0.50	0.54
175	0.67	0.73	0.73	0.76	0.74	0.87	0.89	0.87	0.91	0.76	0.69	0.61	0.55	0.50	0.47	0.48	0.47	0.47	0.49
180	0.62	0.61	0.59	0.60	0.57	0.59	0.63	0.61	0.67	0.70	0.68	0.65	0.62	0.61	0.59	0.59	0.56	0.60	0.63

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:21 April 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=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.92V I:0.1017A P:11.590W PF:0.9503 Freq:59.98Hz Lamp Flux:822.555x1 lm		
NAME: ASD-UCB-24D12CC-WH-5000K	TYPE:0	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	257	257	257	257	257														
5	248	249	250	252	254														
10	237	239	241	245	249														
15	225	228	231	237	243														
20	211	215	220	227	236														
25	196	202	207	216	227														
30	180	186	193	205	215														
35	162	170	178	192	201														
40	144	153	162	177	185														
45	126	135	145	161	167														
50	108	117	127	141	148														
55	89.7	99.5	108	119	127														
60	73.0	81.3	88.0	97.2	106														
65	56.6	62.9	67.9	74.9	83.5														
70	41.3	45.6	48.8	53.6	61.2														
75	27.7	30.4	31.7	34.3	39.2														
80	15.9	17.4	17.5	18.3	19.9														
85	6.80	7.22	7.04	6.75	6.35														
90	1.49	1.49	1.13	0.74	0.40														
95	0.70	0.66	0.56	0.44	0.38														
100	0.87	0.83	0.76	0.65	0.54														
105	1.01	0.99	0.92	0.79	0.65														
110	1.12	1.07	0.98	0.87	0.75														
115	1.13	1.09	1.01	0.92	0.82														
120	1.09	1.06	0.98	0.96	0.86														
125	0.99	0.95	0.96	0.94	0.84														
130	0.97	0.94	0.93	0.89	0.82														
135	0.91	0.92	0.92	0.87	0.79														
140	0.86	0.91	0.86	0.83	0.76														
145	0.87	0.87	0.85	0.78	0.75														
150	0.80	0.82	0.81	0.75	0.73														
155	0.77	0.77	0.73	0.72	0.70														
160	0.68	0.66	0.67	0.69	0.68														
165	0.57	0.61	0.63	0.64	0.62														
170	0.54	0.56	0.60	0.65	0.65														
175	0.51	0.54	0.59	0.65	0.67														
180	0.61	0.67	0.70	0.68	0.65														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:21 April 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=1.0000]
Remarks: