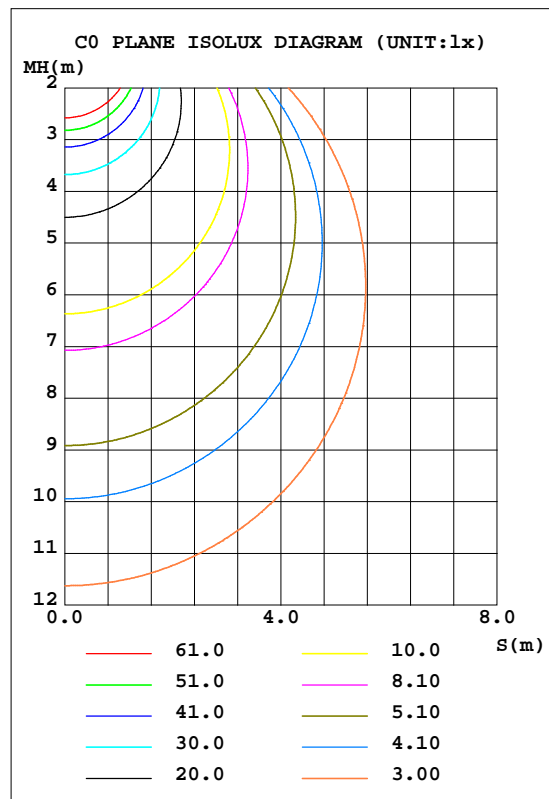
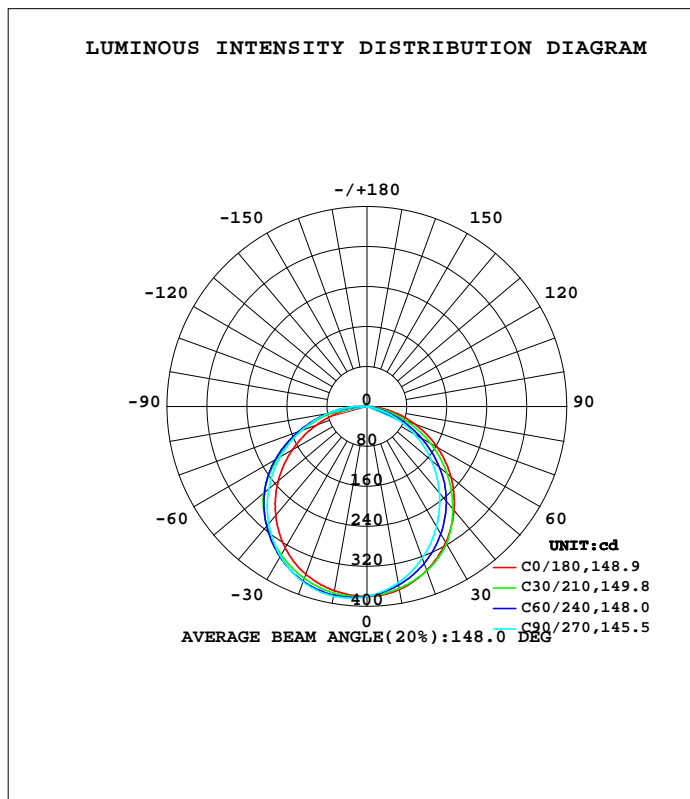


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.04V I:0.1479A P:16.034W PF:0.9034 Freq:59.98Hz Lamp Flux:1103.5x1 lm		
NAME: ASD-UCS-32D16CC-3000K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ASD-UCS-32D16CC-3000K	Imax(cd)	386.0	S/MH(C0/180)	1.28
NOMINAL POWER(W)	16	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1103.5	h UP, DN(C0-180)	0.3,42.6
NOMINAL FLUX(lm)	1103.5	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.4,56.7
LAMPS INSIDE	1	h up(%)	0.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	99.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:21 February 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	372.0	366.0	358.5	364.7	374.4	383.2	385.4	384.7	0- 10	35.97	35.97	3.26,3.26
20	349.1	342.1	323.3	337.8	357.5	372.8	373.8	378.1	10- 20	103.2	139.1	12.6,12.6
30	314.9	309.2	278.2	299.3	326.9	348.7	346.5	360.1	20- 30	156.8	295.9	26.8,26.8
40	271.0	264.9	225.8	254.0	284.3	314.5	306.3	327.1	30- 40	189.5	485.4	44,44
50	219.6	205.1	168.6	202.4	231.9	271.6	256.5	272.7	40- 50	196.7	682.1	61.8,61.8
60	162.0	139.9	108.7	142.6	172.2	218.4	200.3	209.9	50- 60	177.3	859.4	77.9,77.9
70	100.8	74.62	51.94	74.74	106.9	147.5	139.3	142.3	60- 70	134.3	993.7	90.1,90.1
80	43.28	18.89	6.433	16.82	43.65	76.80	77.24	75.45	70- 80	77.17	1071	97,97
90	1.120	0.5868	0.4946	0.5955	0.2965	16.19	22.38	17.82	80- 90	25.25	1096	99.3,99.3
100	0.6316	0.8495	0.8677	0.8038	0.4816	0.3599	0.3255	0.4764	90-100	2.137	1098	99.5,99.5
110	0.9032	1.151	1.230	1.096	0.7292	0.5974	0.5225	0.6328	100-110	0.7577	1099	99.6,99.6
120	1.117	1.320	1.400	1.279	0.9228	0.8314	0.7493	0.8479	110-120	0.9417	1100	99.7,99.7
130	1.177	1.344	1.518	1.338	0.9940	0.9865	0.9382	1.018	120-130	0.9868	1101	99.8,99.8
140	1.107	1.354	1.506	1.381	0.9712	1.100	1.119	1.103	130-140	0.9029	1102	99.9,99.9
150	1.024	1.356	1.490	1.406	0.9174	1.030	1.251	1.036	140-150	0.7391	1103	99.9,99.9
160	0.9498	1.109	1.376	1.186	0.8611	1.012	1.037	0.9939	150-160	0.5208	1103	100,100
170	0.9407	1.144	1.082	1.134	0.8879	1.032	1.060	1.028	160-170	0.2902	1103	100,100
180	0.9814	1.126	1.117	1.158	0.9811	1.123	1.114	1.158	170-180	0.0981	1103	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 February 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:120.04V I:0.1479A P:16.034W PF:0.9034 Freq:59.98Hz Lamp Flux:1103.5x1 lm										
NAME: ASD-UCS-32D16CC-3000K					TYPE:			WEIGHT:		
SPEC.:16W					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	11.2	12.7	11.5	12.9	13.1	9.4	10.9	9.7	11.1	11.4
3H	12.7	14.1	13.0	14.4	14.6	10.2	11.6	10.6	11.9	12.1
4H	13.3	14.7	13.6	14.9	15.2	10.4	11.7	10.7	12.0	12.3
6H	13.8	15.0	14.1	15.3	15.6	10.4	11.6	10.7	11.9	12.2
8H	13.9	15.1	14.3	15.4	15.7	10.3	11.6	10.7	11.8	12.2
12H	14.0	15.2	14.4	15.5	15.8	10.3	11.5	10.6	11.8	12.1
4H 2H	11.5	12.8	11.8	13.1	13.4	10.1	11.4	10.4	11.7	12.0
3H	13.2	14.3	13.5	14.6	15.0	11.1	12.2	11.4	12.6	12.9
4H	13.9	15.0	14.3	15.3	15.6	11.3	12.4	11.7	12.7	13.1
6H	14.4	15.4	14.8	15.8	16.1	11.3	12.3	11.7	12.6	13.0
8H	14.6	15.5	15.1	15.9	16.3	11.3	12.2	11.7	12.5	12.9
12H	14.8	15.6	15.2	16.0	16.4	11.2	12.1	11.7	12.4	12.9
8H 4H	13.9	14.8	14.3	15.2	15.6	11.5	12.4	12.0	12.8	13.2
6H	14.5	15.3	15.0	15.7	16.1	11.6	12.3	12.1	12.8	13.2
8H	14.8	15.4	15.3	15.9	16.4	11.6	12.2	12.0	12.7	13.1
12H	15.0	15.5	15.5	16.0	16.5	11.5	12.1	12.0	12.6	13.0
12H 4H	13.9	14.7	14.3	15.1	15.5	11.5	12.4	12.0	12.8	13.2
6H	14.5	15.2	15.0	15.6	16.1	11.6	12.3	12.1	12.7	13.2
8H	14.8	15.3	15.3	15.8	16.3	11.6	12.2	12.1	12.6	13.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.4 / - 0.4				
1.5H	+ 0.2 / - 0.2					+ 0.3 / - 0.6				
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.8				

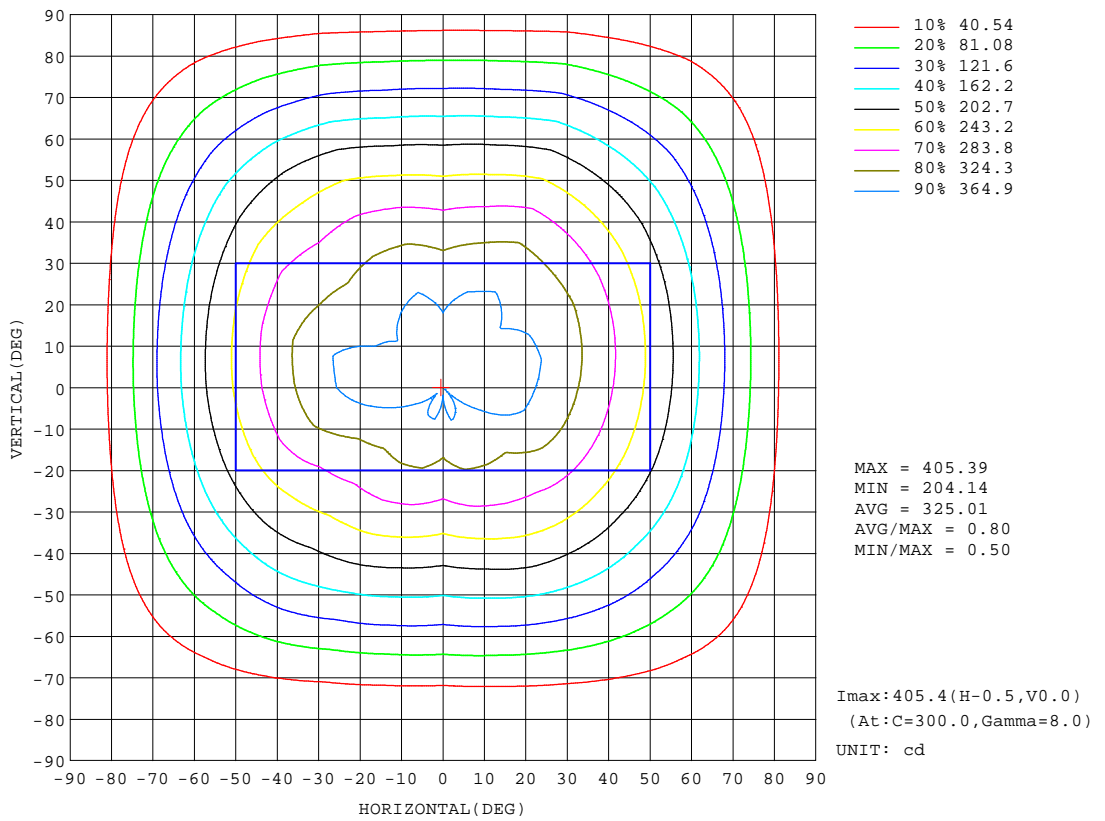
CIE Pub.117, 1103 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.3)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:21 February 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:120.04V I:0.1479A P:16.034W PF:0.9034 Freq:59.98Hz Lamp Flux:1103.5x1 lm		
NAME: ASD-UCS-32D16CC-3000K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



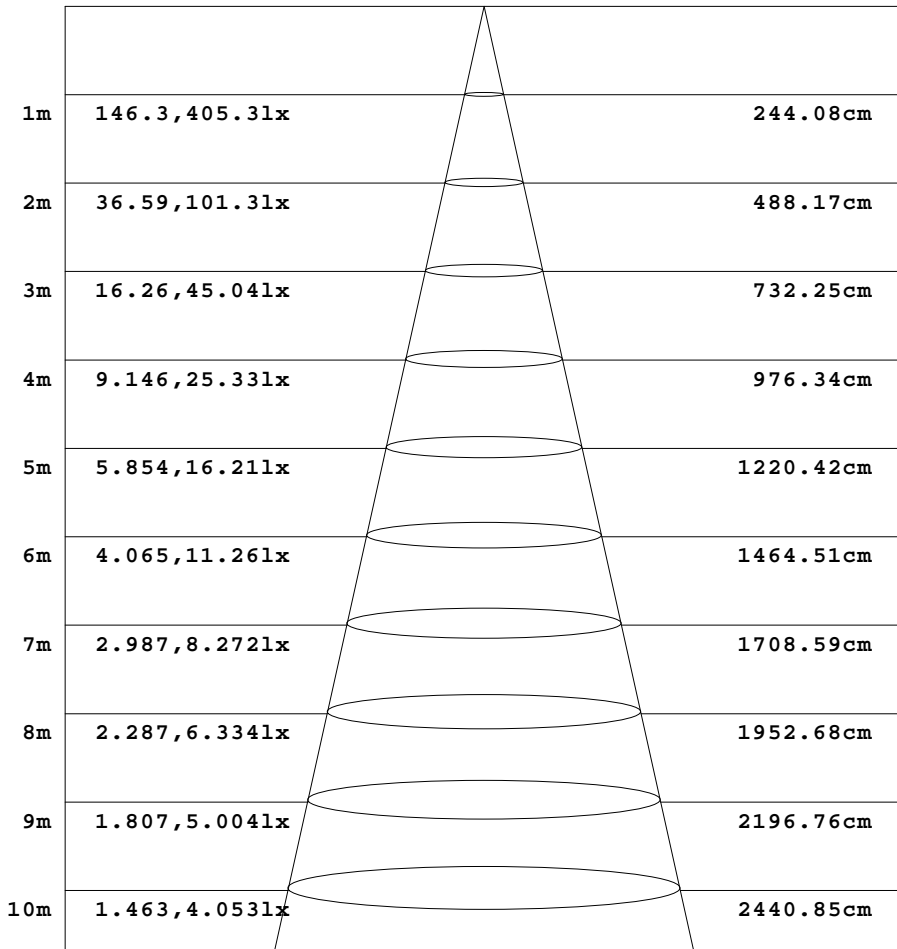
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:21 February 2021

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:120.04V I:0.1479A P:16.034W PF:0.9034 Freq:59.98Hz Lamp Flux:1103.5x1 lm		
NAME: ASD-UCS-32D16CC-3000K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:701.1 lm



Height                      Eavg, Emax                      Angle:101.34deg                      Diameter

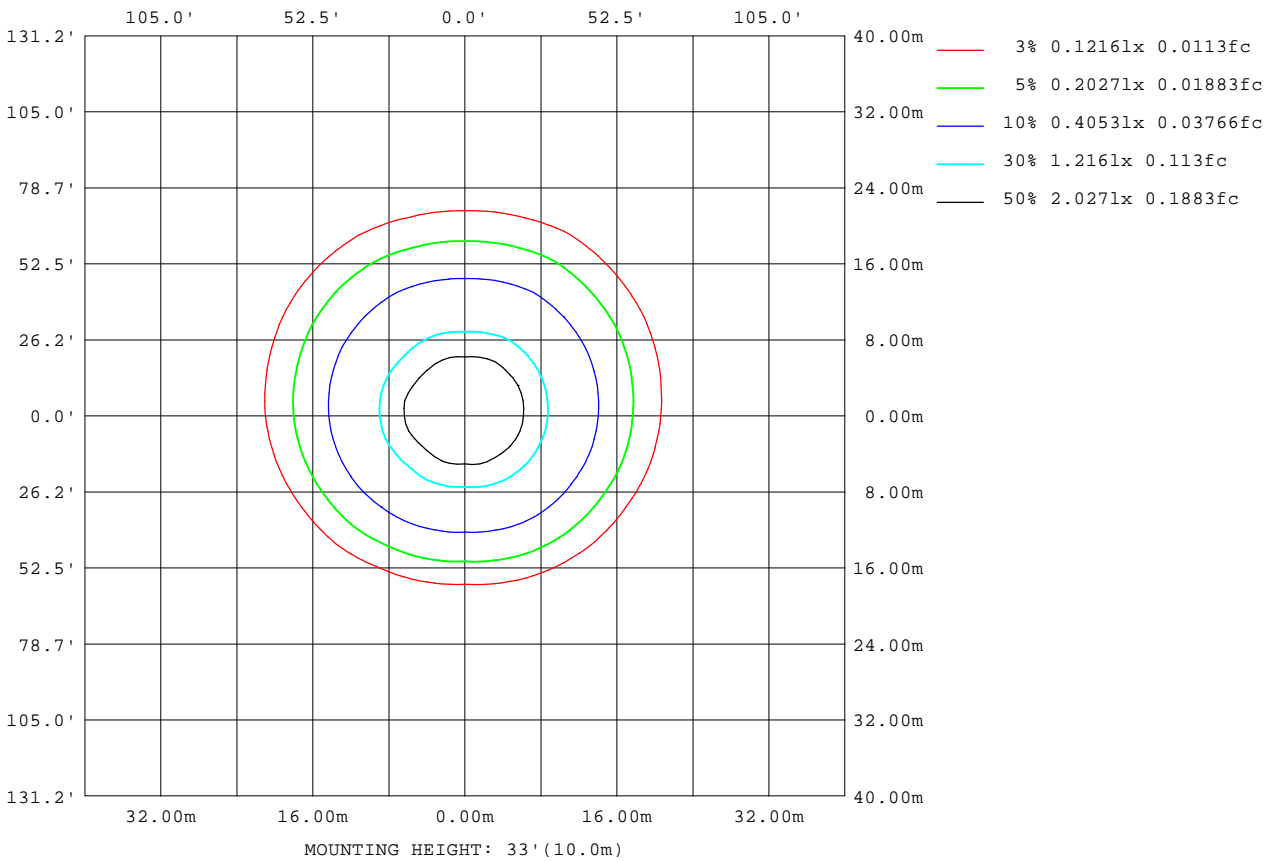
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:21 February 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:120.04V I:0.1479A P:16.034W PF:0.9034 Freq:59.98Hz Lamp Flux:1103.5x1 lm		
NAME: ASD-UCS-32D16CC-3000K	TYPE:	WEIGHT:
SPEC.:16W	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 February 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:120.04V I:0.1479A P:16.034W PF:0.9034 Freq:59.98Hz Lamp Flux:1103.5x1 lm		
NAME: ASD-UCS-32D16CC-3000K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

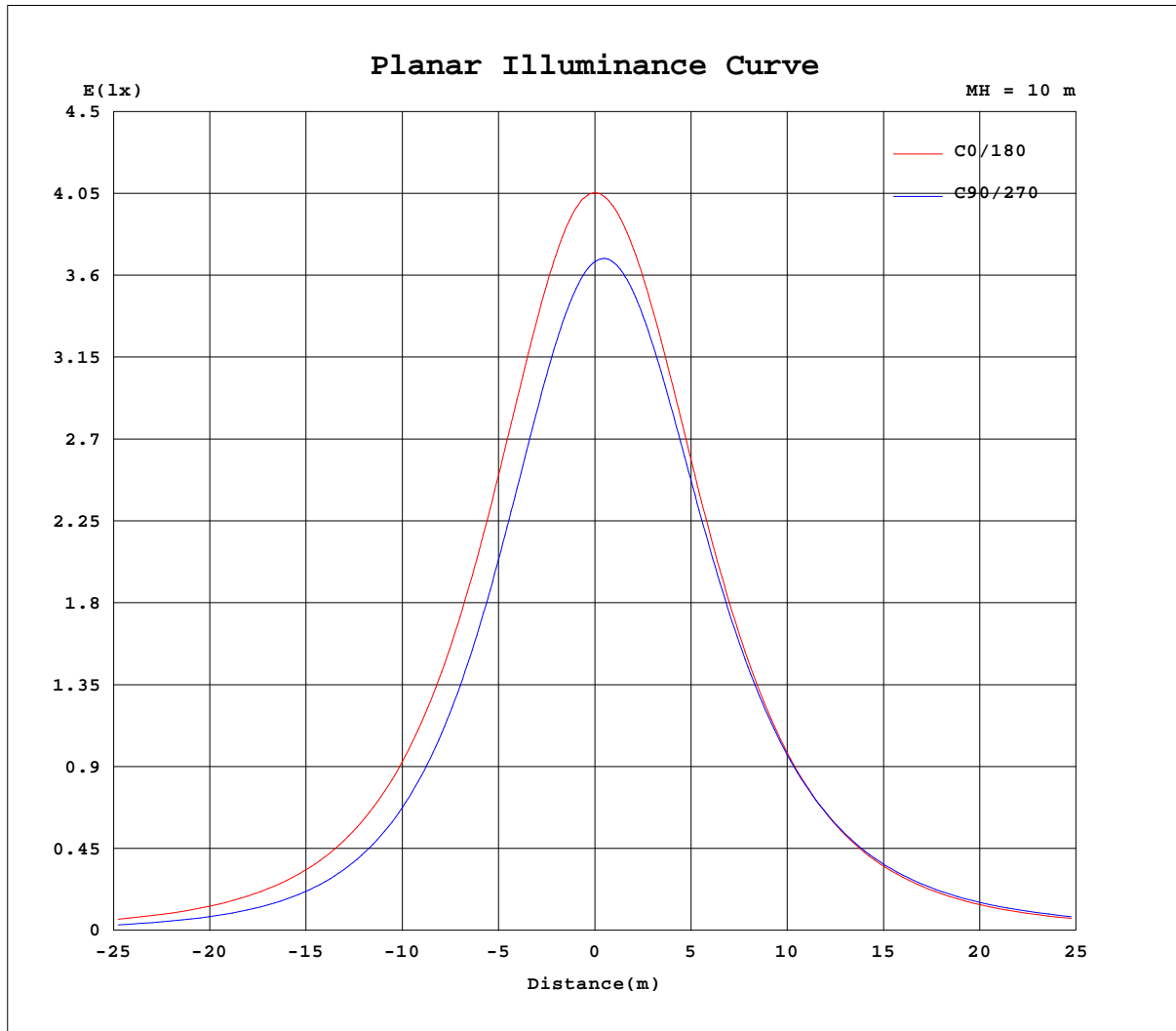
AvgL	cd/m2
L_0~180(65)av	642
L_0~180(75)av	562
L_0~180(85)av	426
L_90~270(65)av	592
L_90~270(75)av	519
L_90~270(85)av	557
L_45(65)av	681
L_45(75)av	594
L_45(85)av	520

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:21 February 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: 21 February 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:120.04V I:0.1479A P:16.034W PF:0.9034 Freq:59.98Hz Lamp Flux:1103.5x1 lm		
NAME: ASD-UCS-32D16CC-3000K	TYPE:	WEIGHT:
SPEC.:16W	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	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380	380
5	378	378	376	374	373	372	371	371	372	374	374	376	379	379	381	383	383	384	385
10	372	372	370	366	363	359	358	359	361	365	366	369	374	376	379	383	383	384	385
15	362	361	361	355	350	344	343	343	347	353	354	361	367	370	374	380	379	380	382
20	349	347	350	342	334	325	323	324	329	338	340	350	358	363	366	373	372	372	374
25	333	330	336	327	316	304	302	303	310	320	324	338	344	352	356	362	361	360	362
30	315	310	318	309	295	280	278	279	288	299	306	324	327	338	343	349	348	344	347
35	294	288	294	289	272	255	253	254	265	278	287	306	307	319	328	333	331	326	328
40	271	264	267	265	247	228	226	227	240	254	265	282	284	297	311	315	312	304	306
45	246	238	239	236	220	201	198	199	213	229	242	255	259	272	293	294	291	280	282
50	220	210	209	205	189	172	169	170	184	202	217	226	232	245	270	272	268	254	257
55	191	182	178	173	158	142	139	141	152	174	186	196	203	216	239	247	242	226	229
60	162	152	146	140	125	112	109	111	121	143	152	164	172	185	207	218	212	197	200
65	132	122	114	107	93.1	82.8	80.1	81.3	89.4	108	118	130	140	152	173	184	179	167	170
70	101	91.0	82.7	74.6	63.4	54.5	51.9	53.1	60.0	74.7	84.3	96.3	107	118	138	148	145	136	139
75	71.4	61.5	52.8	44.7	35.1	28.8	26.4	27.7	32.4	43.5	52.5	63.7	74.1	85.2	102	111	111	104	108
80	43.3	34.5	26.1	18.9	11.3	7.66	6.43	6.99	9.48	16.8	24.3	34.1	43.6	54.0	67.7	76.8	78.2	74.6	77.2
85	19.2	12.1	4.90	1.12	0.62	0.46	0.39	0.49	0.65	0.83	2.80	9.85	17.9	25.8	36.5	44.1	47.1	45.9	48.2
90	1.12	0.47	0.69	0.59	0.55	0.51	0.49	0.51	0.53	0.60	0.59	0.47	0.30	4.10	10.7	16.2	20.0	20.4	22.4
95	0.51	0.54	0.61	0.66	0.66	0.64	0.67	0.63	0.63	0.62	0.58	0.53	0.36	0.35	0.45	0.48	0.64	1.12	2.29
100	0.63	0.68	0.78	0.85	0.85	0.84	0.87	0.82	0.81	0.80	0.74	0.65	0.48	0.43	0.43	0.36	0.31	0.30	0.33
105	0.76	0.82	0.93	1.02	1.04	1.03	1.07	1.02	0.99	0.97	0.88	0.78	0.61	0.56	0.52	0.48	0.43	0.39	0.39
110	0.90	0.95	1.07	1.15	1.18	1.17	1.23	1.16	1.12	1.10	1.01	0.91	0.73	0.67	0.64	0.60	0.54	0.52	0.52
115	1.02	1.05	1.17	1.27	1.26	1.26	1.32	1.25	1.22	1.20	1.10	1.01	0.83	0.77	0.75	0.71	0.65	0.62	0.66
120	1.12	1.16	1.25	1.32	1.35	1.35	1.40	1.33	1.30	1.28	1.19	1.11	0.92	0.86	0.86	0.83	0.75	0.72	0.75
125	1.18	1.20	1.27	1.33	1.37	1.41	1.47	1.38	1.34	1.31	1.23	1.17	0.99	0.93	0.93	0.92	0.84	0.80	0.85
130	1.18	1.20	1.31	1.34	1.36	1.44	1.52	1.40	1.35	1.34	1.27	1.19	0.99	0.95	0.99	0.99	0.93	0.91	0.94
135	1.16	1.15	1.29	1.35	1.37	1.42	1.53	1.39	1.36	1.35	1.30	1.18	1.00	0.96	1.00	1.04	1.01	0.98	1.04
140	1.11	1.11	1.28	1.35	1.36	1.38	1.51	1.38	1.35	1.38	1.31	1.15	0.97	0.95	1.01	1.10	1.04	1.04	1.12
145	1.08	1.10	1.24	1.37	1.36	1.38	1.48	1.37	1.37	1.42	1.30	1.15	0.95	0.96	1.01	1.09	1.13	1.09	1.15
150	1.02	1.07	1.16	1.36	1.39	1.40	1.49	1.40	1.40	1.41	1.23	1.13	0.92	0.94	0.99	1.03	1.11	1.17	1.25
155	0.99	1.05	1.10	1.25	1.31	1.42	1.53	1.41	1.34	1.32	1.16	1.10	0.89	0.92	1.01	1.03	1.00	1.03	1.14
160	0.95	1.01	1.05	1.11	1.20	1.26	1.38	1.30	1.25	1.19	1.10	1.07	0.86	0.89	0.97	1.01	0.99	1.00	1.04
165	0.91	0.95	1.04	1.08	1.07	1.09	1.17	1.12	1.12	1.14	1.06	0.99	0.84	0.86	0.93	1.02	1.02	0.99	1.01
170	0.94	0.97	1.10	1.14	1.07	1.07	1.08	1.08	1.10	1.13	1.08	0.97	0.89	0.87	0.95	1.03	1.02	0.97	1.06
175	0.96	0.99	1.09	1.11	1.09	1.08	1.10	1.04	1.11	1.15	1.07	0.98	0.91	0.90	0.96	1.03	1.00	0.96	1.07
180	0.98	0.99	1.06	1.13	1.04	1.03	1.12	1.02	1.05	1.16	1.13	1.02	0.98	0.99	1.06	1.12	1.05	1.03	1.11

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:21 February 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:120.04V I:0.1479A P:16.034W PF:0.9034 Freq:59.98Hz Lamp Flux:1103.5x1 lm		
NAME: ASD-UCS-32D16CC-3000K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	380	380	380	380	380														
5	385	385	384	383	382														
10	385	386	385	383	381														
15	381	384	383	381	378														
20	373	378	378	376	370														
25	361	370	371	368	355														
30	345	357	360	355	337														
35	327	341	346	337	316														
40	305	322	327	313	293														
45	281	298	301	287	267														
50	255	270	273	259	240														
55	228	241	242	230	211														
60	198	210	210	199	181														
65	168	178	177	166	149														
70	137	145	142	133	117														
75	106	112	108	99.3	85.1														
80	75.6	79.1	75.4	67.0	55.2														
85	47.0	48.4	44.5	37.6	28.1														
90	21.5	21.6	17.8	13.0	6.72														
95	1.77	1.25	0.59	0.64	0.46														
100	0.34	0.31	0.48	0.53	0.51														
105	0.40	0.43	0.51	0.58	0.63														
110	0.53	0.56	0.63	0.69	0.75														
115	0.65	0.67	0.75	0.81	0.86														
120	0.74	0.77	0.85	0.92	0.97														
125	0.82	0.83	0.94	0.98	1.02														
130	0.93	0.93	1.02	1.05	1.05														
135	1.01	1.02	1.06	1.06	1.05														
140	1.07	1.03	1.10	1.05	1.04														
145	1.11	1.11	1.09	1.04	1.02														
150	1.19	1.11	1.04	1.01	0.99														
155	1.05	1.00	1.02	1.02	0.97														
160	1.00	0.98	0.99	0.99	0.94														
165	1.02	1.00	1.01	0.96	0.90														
170	1.05	0.98	1.03	1.01	0.94														
175	1.01	0.96	1.03	1.07	1.00														
180	1.03	1.05	1.16	1.13	1.02														

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