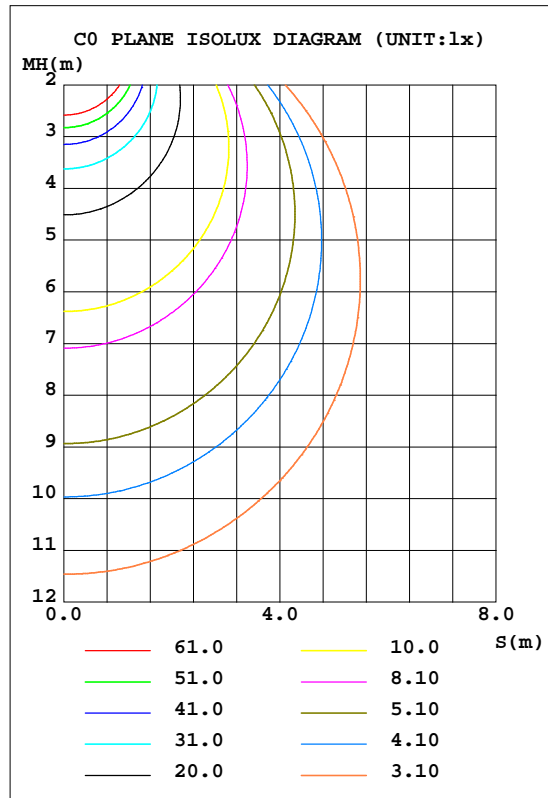
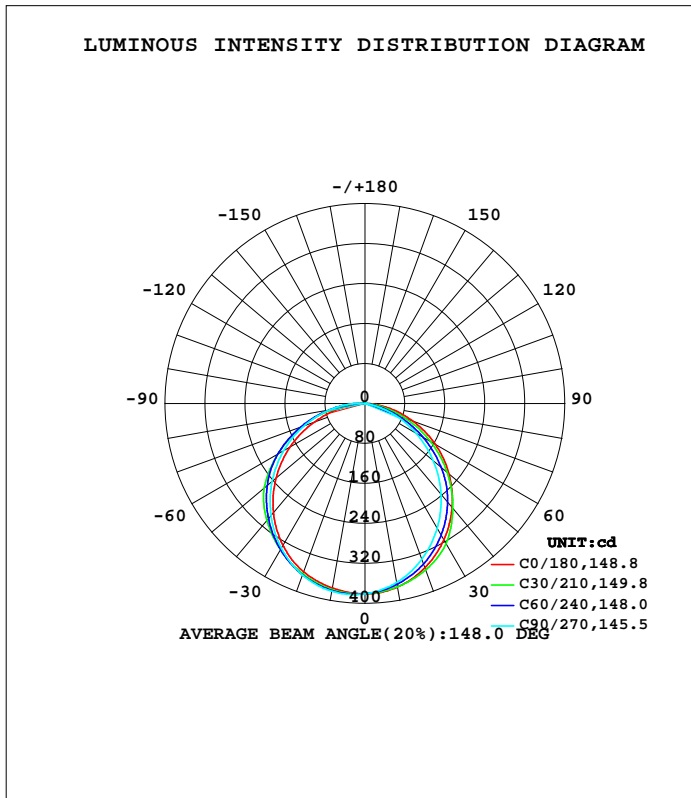


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:0.1514A P:16.407W PF:0.9030 Freq:59.98Hz Lamp Flux:1097.8x1 lm		
NAME: ASD-UCS-32D16CC-4000K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ASD-UCS-32D16CC-4000K	Imax(cd)	383.6	S/MH(C0/180)	1.28
NOMINAL POWER(W)	16	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1097.8	h UP, DN(C0-180)	0.3,44.1
NOMINAL FLUX(lm)	1097.8	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.3,55.2
LAMPS INSIDE	1	h up(%)	0.6	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	99.4	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	373.1	369.6	363.8	368.7	374.9	380.7	381.5	381.8	0- 10	36.04	36.04	3.28,3.28
20	350.1	348.3	332.0	344.2	358.6	367.3	365.4	371.8	10- 20	103.3	139.4	12.7,12.7
30	315.5	317.2	288.8	307.3	328.1	340.6	334.8	351.4	20- 30	156.8	296.2	27,27
40	271.4	273.7	236.9	262.4	285.1	304.9	292.6	316.9	30- 40	189.3	485.6	44.2,44.2
50	219.7	213.0	178.7	210.6	232.6	261.3	242.6	262.4	40- 50	196.2	681.7	62.1,62.1
60	161.9	146.5	117.0	149.9	172.6	209.0	187.6	200.6	50- 60	176.4	858.2	78.2,78.2
70	100.7	79.37	57.69	79.90	106.9	139.9	128.7	134.7	60- 70	133.2	991.3	90.3,90.3
80	43.23	21.50	7.837	19.65	43.62	71.50	69.67	70.16	70- 80	75.85	1067	97.2,97.2
90	1.092	0.5416	0.4527	0.5403	0.2870	13.54	18.52	15.09	80- 90	23.60	1091	99.4,99.4
100	0.6328	0.7981	0.8022	0.7553	0.4749	0.3740	0.3582	0.5086	90-100	1.823	1093	99.5,99.5
110	0.9085	1.109	1.149	1.039	0.7296	0.6254	0.5594	0.6707	100-110	0.7454	1093	99.6,99.6
120	1.122	1.277	1.341	1.230	0.9208	0.8622	0.7915	0.8766	110-120	0.9325	1094	99.7,99.7
130	1.177	1.327	1.446	1.290	0.9906	1.019	0.9834	1.051	120-130	0.9826	1095	99.8,99.8
140	1.110	1.342	1.430	1.339	0.9666	1.126	1.162	1.142	130-140	0.9016	1096	99.8,99.8
150	1.025	1.351	1.453	1.367	0.9183	1.047	1.282	1.052	140-150	0.7396	1097	99.9,99.9
160	0.9520	1.112	1.348	1.172	0.8633	1.017	1.050	0.9933	150-160	0.5211	1097	100,100
170	0.9451	1.153	1.070	1.142	0.8848	1.034	1.070	1.036	160-170	0.2909	1098	100,100
180	0.9851	1.131	1.127	1.173	0.9874	1.131	1.112	1.173	170-180	0.0984	1098	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:120.05V I:0.1514A P:16.407W PF:0.9030 Freq:59.98Hz Lamp Flux:1097.8x1 lm										
NAME: ASD-UCS-32D16CC-4000K					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	11.3	12.8	11.6	13.1	13.3	9.8	11.3	10.1	11.6	11.8
3H	12.8	14.2	13.2	14.5	14.7	10.7	12.1	11.0	12.4	12.6
4H	13.4	14.8	13.8	15.0	15.3	10.9	12.3	11.3	12.5	12.8
6H	13.9	15.1	14.2	15.4	15.7	10.9	12.2	11.3	12.5	12.8
8H	14.0	15.2	14.4	15.5	15.8	10.9	12.1	11.2	12.4	12.7
12H	14.1	15.3	14.5	15.6	15.9	10.8	12.0	11.2	12.3	12.6
4H 2H	11.7	13.0	12.0	13.3	13.6	10.5	11.8	10.8	12.1	12.4
3H	13.3	14.5	13.7	14.8	15.1	11.6	12.7	11.9	13.0	13.3
4H	14.1	15.1	14.4	15.5	15.8	11.8	12.9	12.2	13.2	13.6
6H	14.6	15.6	15.0	15.9	16.3	11.9	12.8	12.3	13.2	13.6
8H	14.8	15.7	15.2	16.1	16.5	11.8	12.7	12.3	13.1	13.5
12H	14.9	15.7	15.4	16.1	16.6	11.8	12.6	12.2	13.0	13.4
8H 4H	14.1	15.0	14.5	15.4	15.8	12.1	13.0	12.5	13.3	13.7
6H	14.7	15.5	15.2	15.9	16.3	12.2	12.9	12.6	13.3	13.8
8H	15.0	15.6	15.5	16.1	16.5	12.1	12.8	12.6	13.2	13.7
12H	15.2	15.7	15.7	16.2	16.7	12.1	12.7	12.6	13.1	13.6
12H 4H	14.1	14.9	14.5	15.3	15.7	12.1	12.9	12.5	13.3	13.7
6H	14.7	15.4	15.2	15.8	16.3	12.2	12.8	12.7	13.3	13.7
8H	15.0	15.5	15.5	16.0	16.5	12.2	12.7	12.6	13.2	13.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.2					+ 0.3 / - 0.6				
2.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.8				

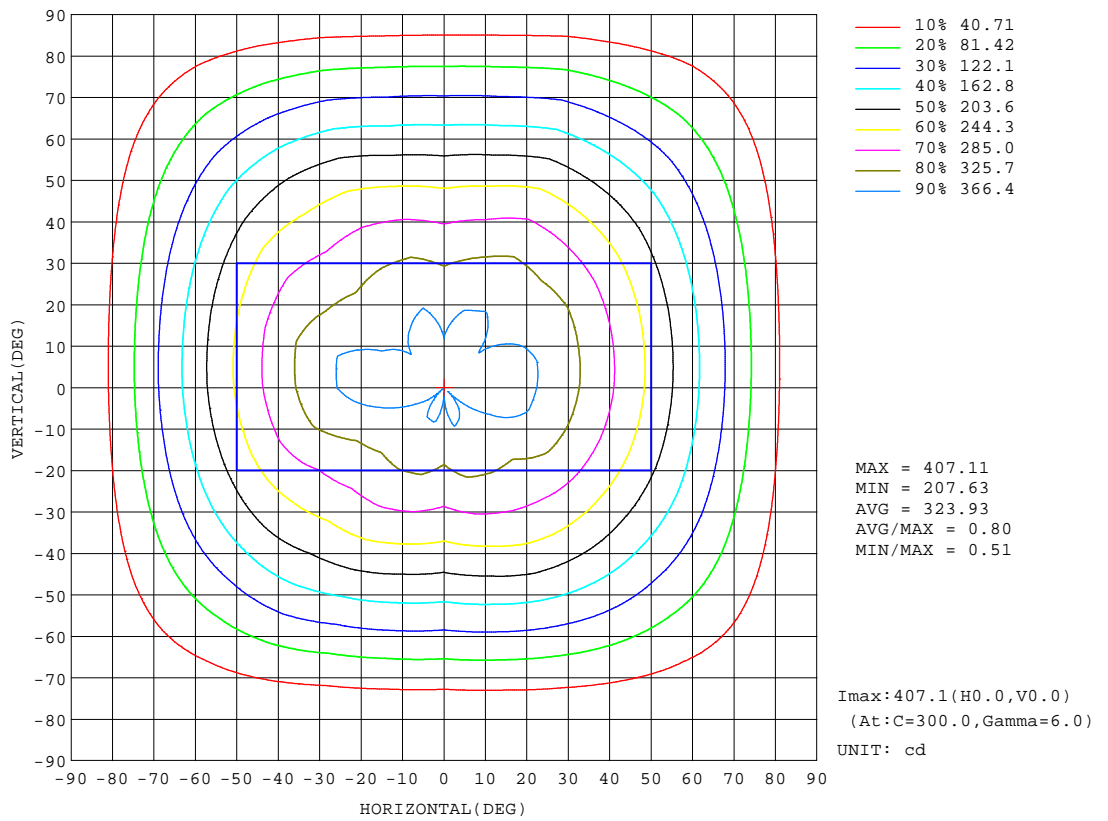
CIE Pub.117, 1098 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.3)

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:120.05V I:0.1514A P:16.407W PF:0.9030 Freq:59.98Hz Lamp Flux:1097.8x1 lm		
NAME: ASD-UCS-32D16CC-4000K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



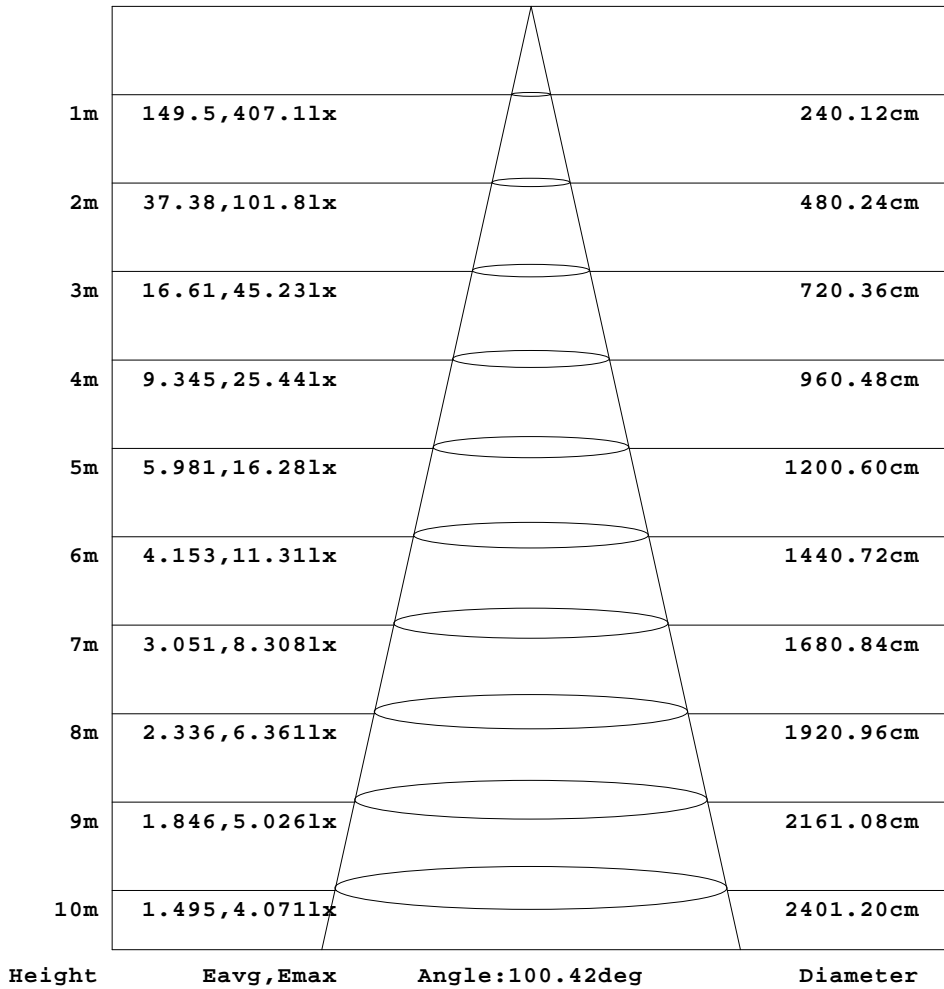
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:21 February 2021

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:120.05V I:0.1514A P:16.407W PF:0.9030 Freq:59.98Hz Lamp Flux:1097.8x1 lm		
NAME: ASD-UCS-32D16CC-4000K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:691.2 lm



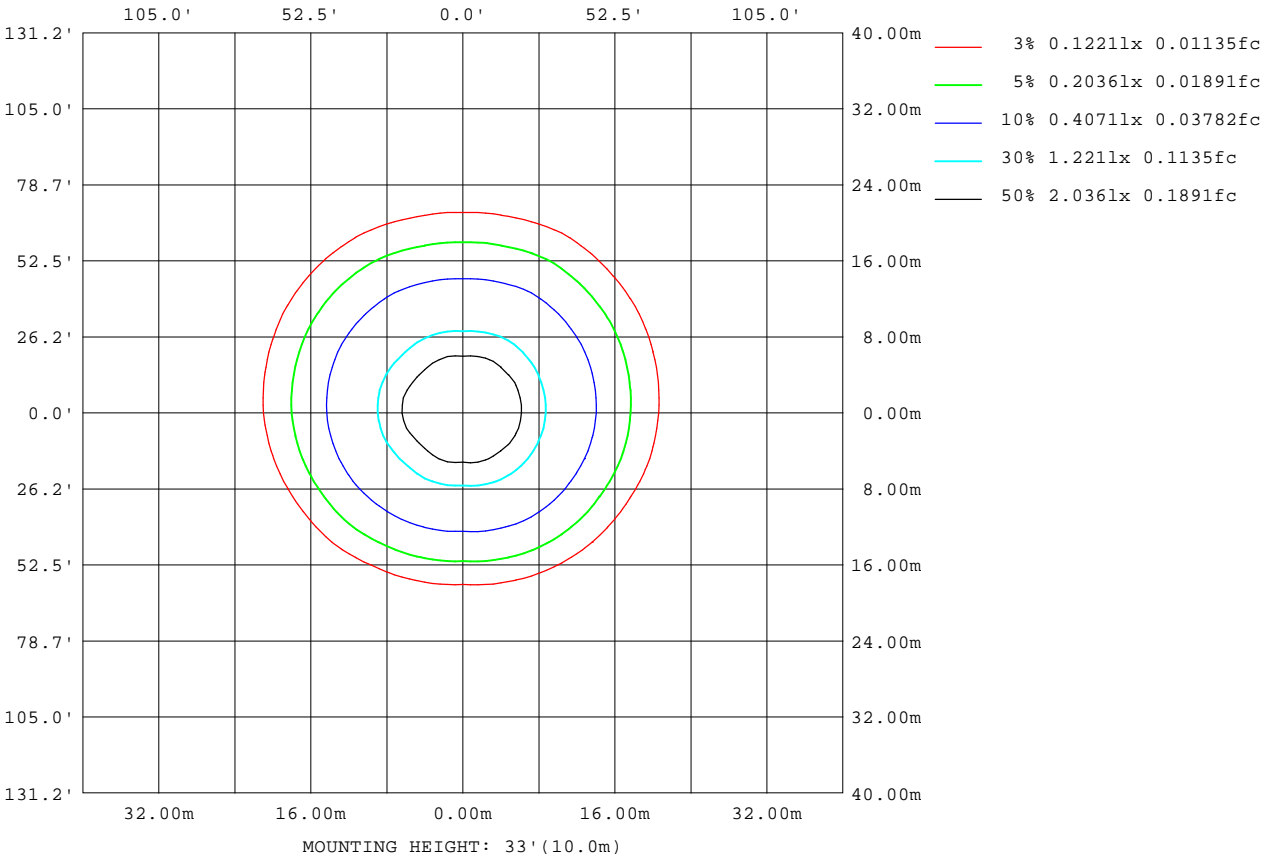
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:21 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:120.05V I:0.1514A P:16.407W PF:0.9030 Freq:59.98Hz Lamp Flux:1097.8x1 lm		
NAME: ASD-UCS-32D16CC-4000K	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:120.05V I:0.1514A P:16.407W PF:0.9030 Freq:59.98Hz Lamp Flux:1097.8x1 lm		
NAME: ASD-UCS-32D16CC-4000K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

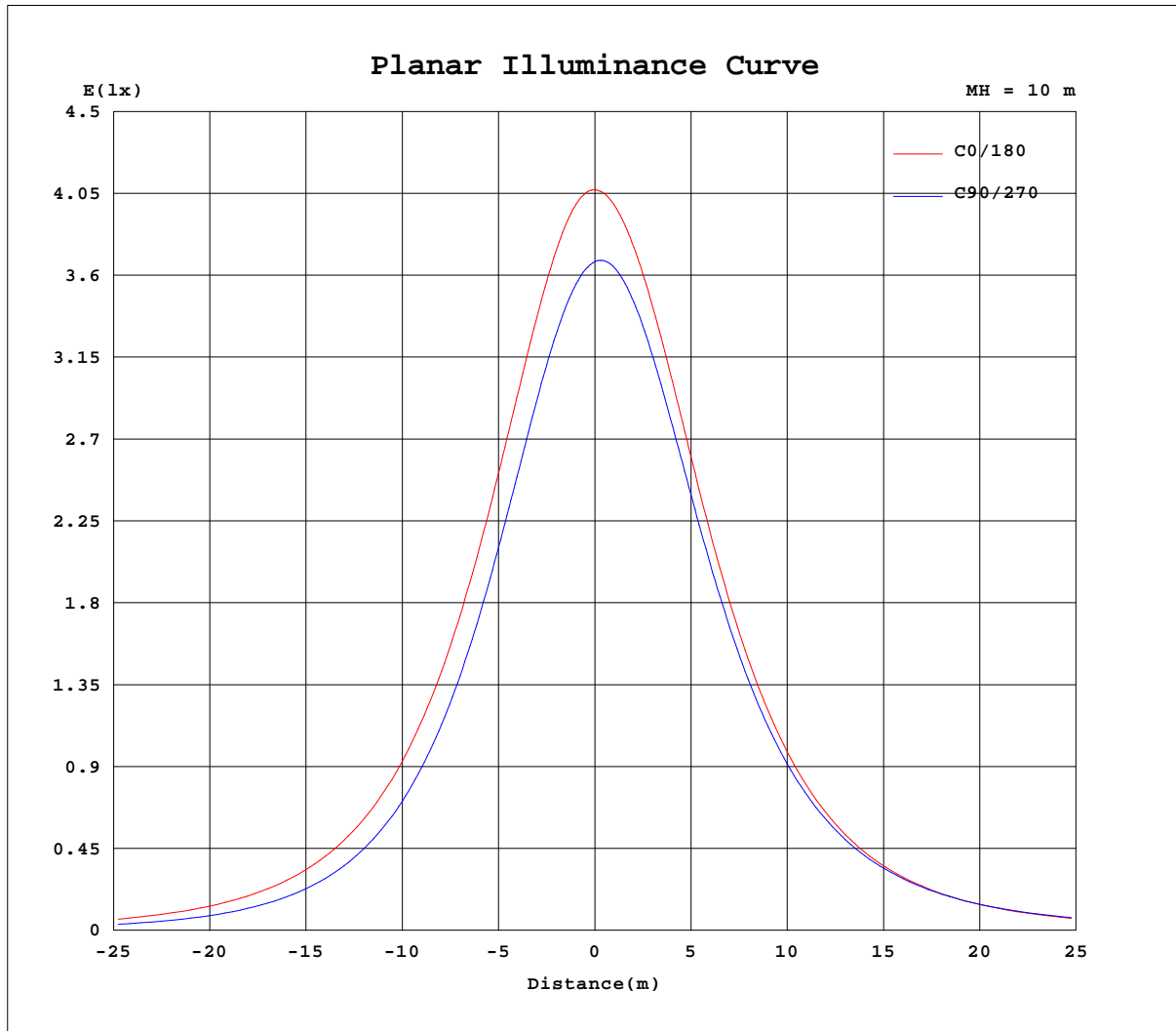
AvgL	cd/m2
L_0~180(65)av	642
L_0~180(75)av	562
L_0~180(85)av	424
L_90~270(65)av	580
L_90~270(75)av	501
L_90~270(85)av	489
L_45(65)av	674
L_45(75)av	583
L_45(85)av	473

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:120.05V I:0.1514A P:16.407W PF:0.9030 Freq:59.98Hz Lamp Flux:1097.8x1 lm		
NAME: ASD-UCS-32D16CC-4000K	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	381	381	381	381	381	381	381	381	381	381	381	381	381	381	381	381	381	381	381
5	379	379	378	377	376	375	374	374	375	376	376	377	379	380	381	382	382	383	383
10	373	374	373	370	368	365	364	364	366	369	369	371	375	376	378	381	380	381	381
15	363	363	365	360	356	351	350	350	353	358	358	363	368	370	372	376	374	375	375
20	350	349	355	348	342	333	332	333	337	344	345	353	359	361	363	367	365	364	365
25	334	332	342	334	325	313	312	312	319	327	329	341	345	351	352	355	353	350	352
30	316	312	324	317	305	291	289	289	298	307	312	327	328	336	338	341	338	333	335
35	295	290	300	297	282	266	264	264	275	286	293	310	308	316	323	324	320	313	315
40	271	266	274	274	257	239	237	238	250	262	272	286	285	294	305	305	301	291	293
45	246	240	245	244	230	211	208	210	223	237	249	259	260	269	286	284	279	267	268
50	220	213	215	213	199	182	179	180	193	211	224	230	233	242	263	261	255	241	243
55	191	184	183	180	166	151	148	150	161	181	192	199	203	213	233	237	230	213	216
60	162	154	151	146	133	121	117	119	128	150	157	167	173	182	201	209	201	185	188
65	131	123	118	113	99.9	89.7	86.9	88.2	95.7	115	122	133	140	150	168	175	169	156	158
70	101	92.5	85.7	79.4	68.9	60.2	57.7	58.8	65.3	79.9	88.0	98.4	107	116	133	140	136	126	129
75	71.3	62.6	55.5	48.4	39.4	33.0	30.7	31.9	36.6	47.6	55.5	65.3	74.1	83.3	98.0	105	103	95.8	98.9
80	43.2	35.3	28.1	21.5	13.7	9.47	7.84	8.61	11.7	19.6	26.5	35.3	43.6	52.5	64.3	71.5	71.7	67.7	69.7
85	19.1	12.7	5.79	1.13	0.60	0.43	0.35	0.46	0.63	0.80	3.61	10.7	17.9	24.7	34.0	40.0	42.1	40.4	42.2
90	1.09	0.46	0.63	0.54	0.50	0.46	0.45	0.46	0.48	0.54	0.53	0.45	0.29	3.71	9.15	13.5	16.8	16.7	18.5
95	0.51	0.53	0.59	0.62	0.61	0.59	0.61	0.58	0.58	0.59	0.56	0.51	0.35	0.35	0.48	0.48	0.61	0.99	1.90
100	0.63	0.66	0.75	0.80	0.79	0.77	0.80	0.76	0.76	0.76	0.71	0.63	0.47	0.44	0.44	0.37	0.33	0.33	0.36
105	0.77	0.81	0.90	0.98	0.98	0.96	0.99	0.95	0.94	0.92	0.85	0.77	0.61	0.56	0.54	0.50	0.45	0.42	0.42
110	0.91	0.93	1.03	1.11	1.10	1.10	1.15	1.08	1.06	1.04	0.97	0.89	0.73	0.67	0.66	0.63	0.58	0.55	0.56
115	1.02	1.04	1.14	1.21	1.20	1.20	1.25	1.18	1.16	1.15	1.07	0.99	0.83	0.77	0.77	0.74	0.69	0.66	0.70
120	1.12	1.14	1.23	1.28	1.28	1.27	1.34	1.26	1.24	1.23	1.15	1.09	0.92	0.87	0.88	0.86	0.79	0.76	0.79
125	1.18	1.19	1.26	1.30	1.31	1.34	1.41	1.33	1.28	1.26	1.20	1.15	0.98	0.93	0.95	0.95	0.88	0.85	0.89
130	1.18	1.19	1.28	1.33	1.32	1.38	1.45	1.35	1.30	1.29	1.24	1.17	0.99	0.96	1.01	1.02	0.97	0.96	0.98
135	1.16	1.15	1.28	1.33	1.33	1.37	1.45	1.35	1.32	1.31	1.27	1.15	1.00	0.97	1.03	1.07	1.05	1.02	1.09
140	1.11	1.12	1.27	1.34	1.33	1.35	1.43	1.32	1.31	1.34	1.30	1.13	0.97	0.96	1.03	1.13	1.07	1.08	1.16
145	1.07	1.10	1.25	1.37	1.33	1.37	1.43	1.32	1.33	1.38	1.28	1.13	0.95	0.96	1.03	1.11	1.16	1.12	1.19
150	1.02	1.08	1.16	1.35	1.37	1.38	1.45	1.35	1.39	1.37	1.22	1.11	0.92	0.94	1.00	1.05	1.13	1.21	1.28
155	0.99	1.05	1.11	1.26	1.32	1.38	1.51	1.37	1.32	1.30	1.16	1.09	0.88	0.92	1.02	1.04	1.02	1.06	1.16
160	0.95	1.01	1.06	1.11	1.21	1.25	1.35	1.27	1.23	1.17	1.10	1.07	0.86	0.89	0.98	1.02	1.00	1.01	1.05
165	0.91	0.95	1.05	1.08	1.08	1.09	1.13	1.11	1.11	1.12	1.07	0.99	0.84	0.86	0.93	1.03	1.03	1.00	1.02
170	0.95	0.98	1.10	1.15	1.08	1.08	1.07	1.05	1.09	1.14	1.08	0.98	0.88	0.88	0.96	1.03	1.03	0.99	1.07
175	0.97	1.00	1.09	1.12	1.10	1.10	1.12	1.02	1.10	1.15	1.07	0.98	0.90	0.91	0.98	1.05	1.02	0.96	1.07
180	0.99	0.99	1.07	1.13	1.06	1.04	1.13	1.03	1.04	1.17	1.12	1.02	0.99	1.00	1.07	1.13	1.05	1.04	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:120.05V I:0.1514A P:16.407W PF:0.9030 Freq:59.98Hz Lamp Flux:1097.8x1 lm		
NAME: ASD-UCS-32D16CC-4000K	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	381	381	381	381	381														
5	383	383	383	383	382														
10	381	383	382	382	381														
15	375	379	378	378	377														
20	365	371	372	372	368														
25	351	361	363	363	353														
30	334	347	351	350	334														
35	315	330	337	331	313														
40	292	310	317	307	289														
45	268	286	291	281	264														
50	242	258	262	253	237														
55	215	229	232	223	208														
60	186	199	201	193	177														
65	157	168	168	161	146														
70	127	136	135	128	114														
75	97.0	104	101	95.1	83.0														
80	68.6	72.4	70.2	63.6	53.6														
85	41.4	43.3	40.4	35.1	27.0														
90	17.7	18.3	15.1	11.3	5.94														
95	1.51	1.11	0.61	0.65	0.48														
100	0.37	0.34	0.51	0.56	0.53														
105	0.43	0.46	0.53	0.61	0.64														
110	0.56	0.60	0.67	0.71	0.76														
115	0.69	0.71	0.78	0.83	0.88														
120	0.78	0.81	0.88	0.94	0.98														
125	0.86	0.87	0.98	1.00	1.03														
130	0.97	0.97	1.05	1.07	1.07														
135	1.05	1.05	1.09	1.08	1.06														
140	1.11	1.07	1.14	1.06	1.05														
145	1.15	1.14	1.13	1.05	1.02														
150	1.23	1.13	1.05	1.02	1.00														
155	1.08	1.02	1.03	1.02	0.97														
160	1.02	1.00	0.99	0.99	0.94														
165	1.04	1.01	1.02	0.96	0.91														
170	1.06	1.00	1.04	1.02	0.95														
175	1.02	0.96	1.03	1.06	1.00														
180	1.03	1.04	1.17	1.11	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: