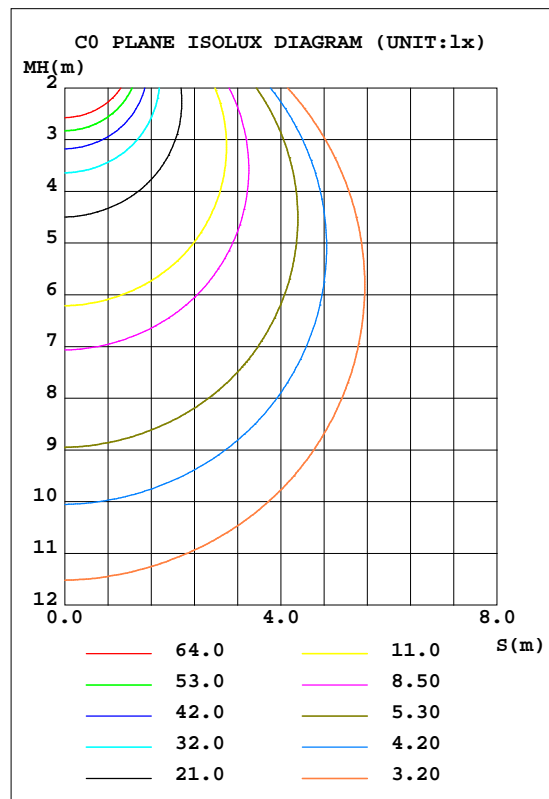
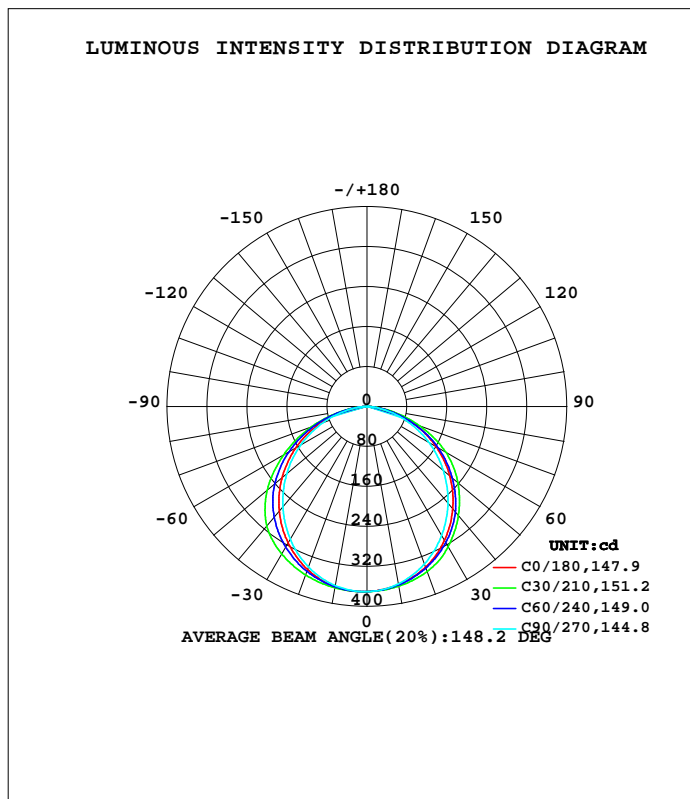


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.02V I:0.1478A P:16.441W PF:0.9266 Freq:59.98Hz Lamp Flux:1089.29x1 lm		
NAME: ASD-UCL-32D16CC-2700K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	ASD-UCL-32D12CC-2700K	Imax(cd)	371.3	S/MH(C0/180)	1.27
NOMINAL POWER(W)	16	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1089.3	h UP, DN(C0-180)	0.3,48.8
NOMINAL FLUX(lm)	1089.29	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.2,50.7
LAMPS INSIDE	1	h up(%)	0.5	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	h down(%)	99.5	CIBSE SHR MAX	1.55



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	361.6	363.5	360.7	364.0	366.6	367.0	364.1	366.4	0- 10	35.07	35.07	3.22,3.22
20	342.3	347.2	335.8	347.8	347.3	353.9	342.2	352.3	10- 20	100.9	136.0	12.5,12.5
30	309.7	322.8	298.6	322.4	315.7	331.9	306.9	328.9	20- 30	154.3	290.2	26.6,26.6
40	267.1	285.1	252.4	286.6	273.3	300.9	261.9	296.6	30- 40	188.4	478.6	43.9,43.9
50	216.6	234.3	199.8	237.1	221.8	256.8	209.7	254.5	40- 50	197.7	676.3	62.1,62.1
60	159.2	176.9	142.6	181.2	163.6	192.4	152.4	189.0	50- 60	179.4	855.7	78.6,78.6
70	97.92	111.5	84.07	112.2	100.1	116.7	92.21	115.0	60- 70	135.4	991.0	91,91
80	40.22	43.11	30.69	42.16	39.25	45.88	36.05	46.58	70- 80	74.86	1066	97.9,97.9
90	0.8984	0.7998	0.2994	0.7839	0.2120	0.6903	0.2996	0.7849	80- 90	18.19	1084	99.5,99.5
100	0.5586	0.6313	0.5297	0.6100	0.3839	0.4589	0.3378	0.5130	90-100	0.4790	1085	99.6,99.6
110	0.8128	0.9519	0.8625	0.9149	0.6008	0.6630	0.5781	0.6964	100-110	0.6633	1085	99.6,99.6
120	1.016	1.172	1.082	1.134	0.7647	0.8252	0.7304	0.8626	110-120	0.8433	1086	99.7,99.7
130	1.067	1.253	1.226	1.215	0.8030	0.9470	0.8626	0.9770	120-130	0.8912	1087	99.8,99.8
140	1.007	1.328	1.231	1.300	0.7594	1.024	0.9835	1.039	130-140	0.8168	1088	99.9,99.9
150	0.9420	1.408	1.264	1.352	0.6832	0.8894	1.067	0.9162	140-150	0.6691	1088	99.9,99.9
160	0.8927	1.203	1.248	1.166	0.6294	0.8585	0.7906	0.8816	150-160	0.4728	1089	100,100
170	0.8344	1.112	0.9504	1.054	0.6991	0.8895	0.8594	0.9272	160-170	0.2625	1089	100,100
180	0.8113	1.016	0.9326	1.036	0.8140	1.012	0.9341	1.041	170-180	0.0867	1089	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:120.02V I:0.1478A P:16.441W PF:0.9266 Freq:59.98Hz Lamp Flux:1089.29x1 lm										
NAME: ASD-UCL-32D16CC-2700K					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	12.0	13.5	12.2	13.7	13.9	11.0	12.5	11.3	12.7	12.9
3H	13.5	14.9	13.8	15.2	15.4	12.3	13.7	12.6	14.0	14.2
4H	14.1	15.4	14.4	15.7	16.0	12.8	14.2	13.1	14.4	14.7
6H	14.5	15.8	14.9	16.1	16.4	13.1	14.4	13.5	14.6	14.9
8H	14.7	15.9	15.0	16.2	16.5	13.2	14.4	13.5	14.7	15.0
12H	14.7	15.9	15.1	16.2	16.5	13.2	14.4	13.5	14.7	15.0
4H 2H	12.5	13.8	12.8	14.1	14.3	11.7	13.0	12.0	13.3	13.6
3H	14.2	15.4	14.6	15.7	16.0	13.2	14.4	13.6	14.7	15.0
4H	14.9	16.0	15.3	16.3	16.7	13.8	14.9	14.2	15.2	15.6
6H	15.5	16.4	15.9	16.8	17.2	14.2	15.2	14.6	15.5	15.9
8H	15.7	16.5	16.1	16.9	17.3	14.3	15.2	14.7	15.6	16.0
12H	15.8	16.6	16.2	17.0	17.4	14.4	15.2	14.8	15.6	16.0
8H 4H	15.1	16.0	15.5	16.4	16.8	14.1	15.0	14.6	15.4	15.8
6H	15.8	16.5	16.3	16.9	17.4	14.7	15.4	15.1	15.8	16.2
8H	16.1	16.7	16.5	17.1	17.6	14.8	15.5	15.3	15.9	16.4
12H	16.3	16.8	16.7	17.3	17.8	14.9	15.5	15.4	15.9	16.4
12H 4H	15.1	15.9	15.5	16.3	16.7	14.2	15.0	14.6	15.4	15.8
6H	15.8	16.5	16.3	16.9	17.4	14.7	15.4	15.2	15.8	16.3
8H	16.1	16.7	16.6	17.1	17.6	14.9	15.5	15.4	15.9	16.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				

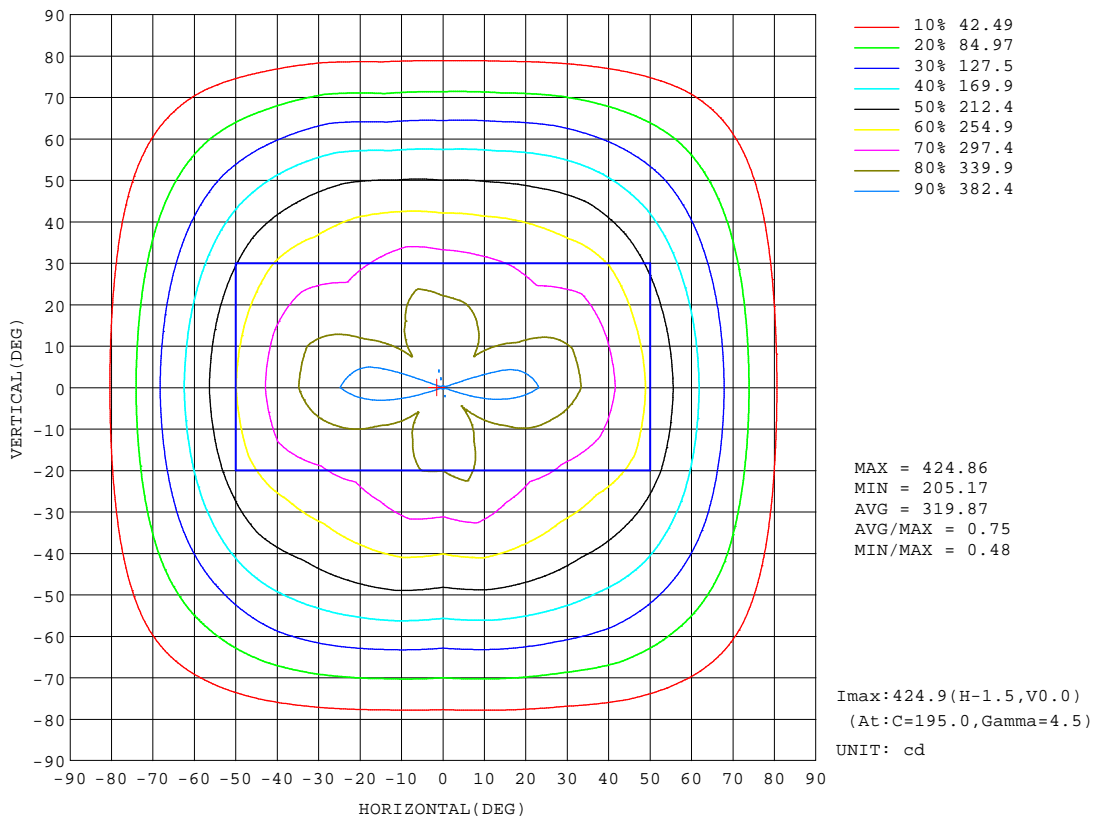
CIE Pub.117, 1089 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.3)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date: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:120.02V I:0.1478A P:16.441W PF:0.9266 Freq:59.98Hz Lamp Flux:1089.29x1 lm		
NAME: ASD-UCL-32D16CC-2700K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



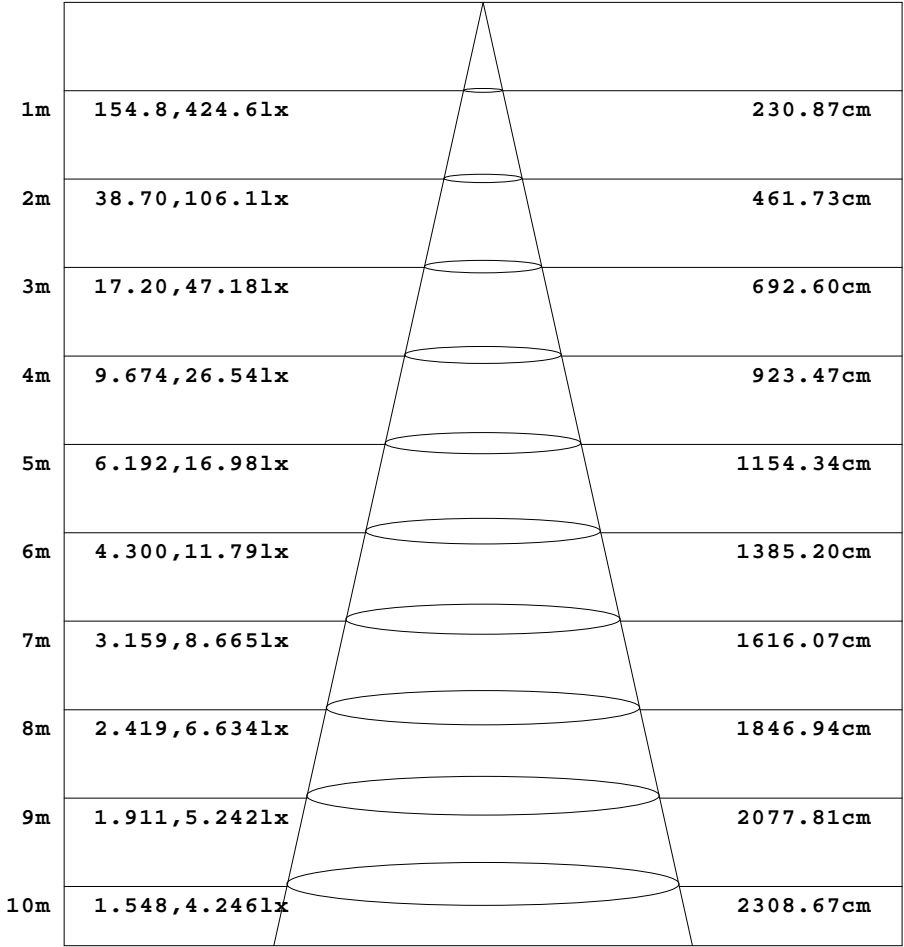
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:10 March 2021

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:120.02V I:0.1478A P:16.441W PF:0.9266 Freq:59.98Hz Lamp Flux:1089.29x1 lm		
NAME: ASD-UCL-32D16CC-2700K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:666.6 lm



Height Eavg, Emax Angle:98.20deg Diameter

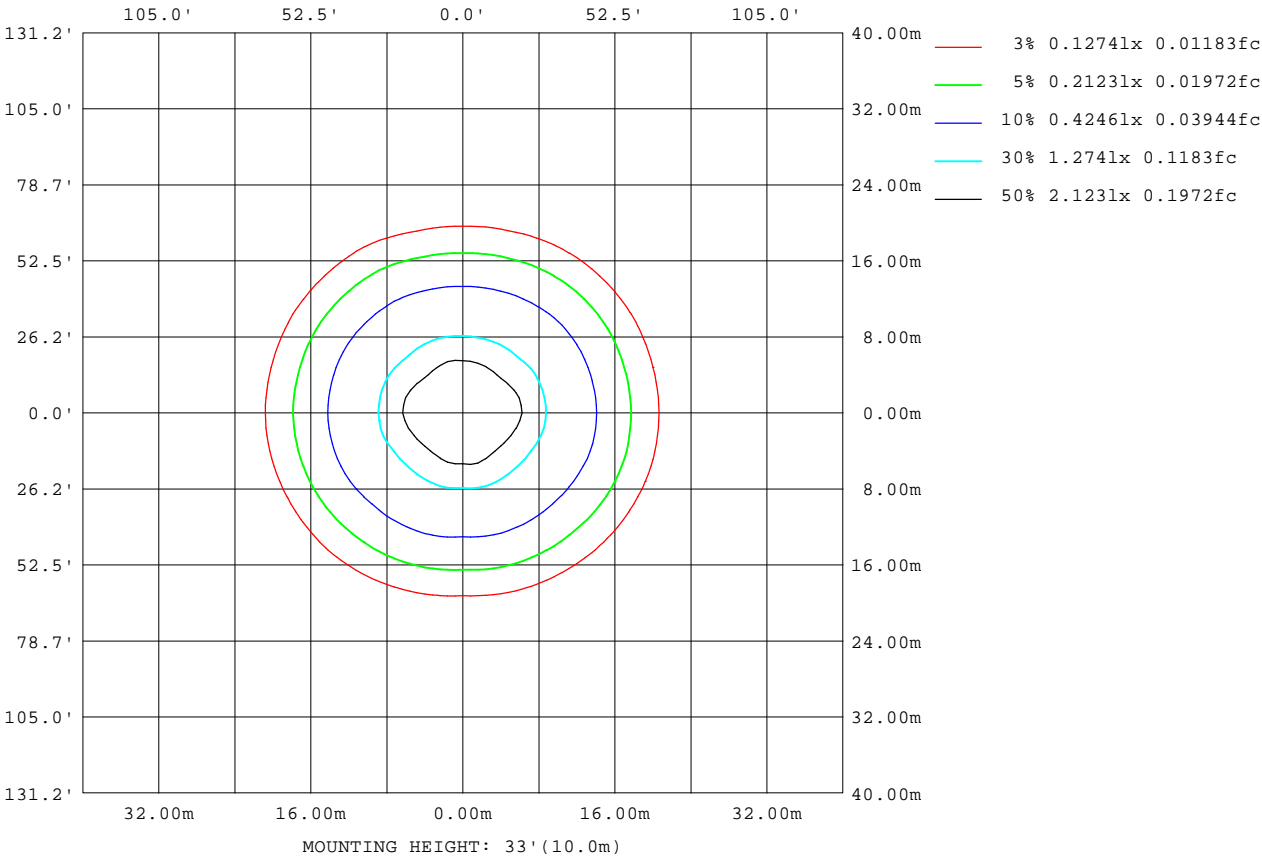
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.02V I:0.1478A P:16.441W PF:0.9266 Freq:59.98Hz Lamp Flux:1089.29x1 lm		
NAME: ASD-UCL-32D16CC-2700K	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: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:120.02V I:0.1478A P:16.441W PF:0.9266 Freq:59.98Hz Lamp Flux:1089.29x1 lm		
NAME: ASD-UCL-32D16CC-2700K	TYPE:	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

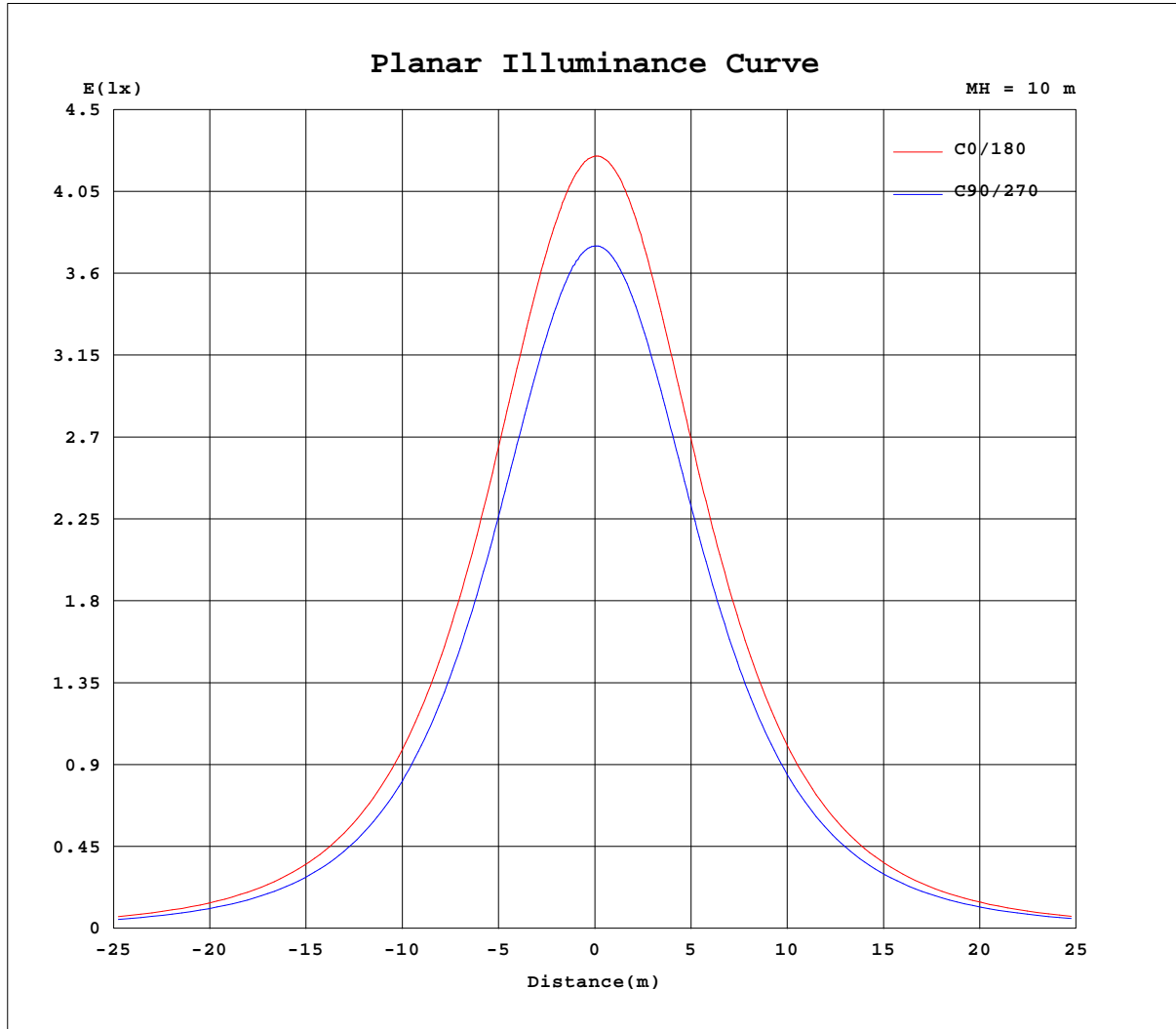
AvgL	cd/m2
L_0~180(65)av	617
L_0~180(75)av	527
L_0~180(85)av	366
L_90~270(65)av	557
L_90~270(75)av	460
L_90~270(85)av	264
L_45(65)av	712
L_45(75)av	601
L_45(85)av	377

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:120.02V I:0.1478A P:16.441W PF:0.9266 Freq:59.98Hz Lamp Flux:1089.29x1 lm		
NAME: ASD-UCL-32D16CC-2700K	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	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370	370
5	368	367	369	368	368	368	367	368	368	368	369	368	370	371	370	370	370	369	369
10	362	360	365	363	363	362	361	363	363	364	364	363	367	370	368	367	366	364	364
15	354	351	359	356	354	352	350	353	355	357	358	355	359	365	365	362	360	354	355
20	342	340	352	347	344	338	336	341	344	348	350	345	347	358	359	354	351	342	342
25	328	328	341	336	331	322	319	325	331	336	340	334	333	348	351	344	340	326	326
30	310	313	325	323	315	302	299	307	315	322	326	321	316	334	341	332	325	307	307
35	290	296	306	306	297	280	276	286	297	306	308	307	296	317	328	318	308	286	285
40	267	278	285	285	276	256	252	264	276	287	288	289	273	294	312	301	289	263	262
45	243	258	262	261	250	230	227	239	252	263	267	265	249	267	289	281	267	237	237
50	217	231	238	234	223	203	200	211	226	237	244	237	222	238	261	257	241	210	210
55	188	201	212	207	194	175	172	182	198	210	218	206	193	207	228	226	211	182	182
60	159	171	182	177	164	146	143	152	168	181	185	174	164	175	192	192	179	152	152
65	129	138	147	145	131	116	113	121	136	149	148	140	132	141	155	155	146	122	122
70	97.9	105	111	112	97.7	86.7	84.1	89.9	103	112	111	106	100	106	117	117	111	91.1	92.2
75	68.0	72.7	76.3	76.0	66.2	58.1	56.3	59.9	69.1	75.6	75.5	72.4	68.4	72.9	80.3	80.1	75.7	62.4	62.9
80	40.2	42.8	44.1	43.1	36.6	32.1	30.7	32.7	37.7	42.2	42.5	41.3	39.3	41.8	46.3	45.9	43.4	35.5	36.1
85	16.7	17.8	16.7	15.6	12.2	10.6	9.75	10.7	12.1	14.5	15.1	15.7	15.2	15.8	18.2	17.1	16.3	12.6	13.3
90	0.90	0.52	0.93	0.80	0.58	0.28	0.30	0.32	0.62	0.78	0.70	0.39	0.21	0.73	0.67	0.69	0.51	0.31	0.30
95	0.45	0.45	0.48	0.47	0.43	0.37	0.38	0.38	0.42	0.45	0.47	0.45	0.28	0.31	0.39	0.38	0.33	0.31	0.32
100	0.56	0.58	0.63	0.63	0.59	0.52	0.53	0.53	0.58	0.61	0.61	0.56	0.38	0.41	0.45	0.46	0.41	0.39	0.34
105	0.68	0.71	0.79	0.81	0.77	0.69	0.71	0.70	0.75	0.77	0.75	0.68	0.49	0.52	0.56	0.57	0.51	0.46	0.46
110	0.81	0.84	0.92	0.95	0.92	0.84	0.86	0.86	0.90	0.91	0.88	0.81	0.60	0.62	0.66	0.66	0.63	0.56	0.58
115	0.92	0.96	1.04	1.08	1.04	0.95	0.98	0.97	1.01	1.04	1.00	0.91	0.69	0.71	0.77	0.74	0.69	0.63	0.66
120	1.02	1.07	1.14	1.17	1.15	1.05	1.08	1.07	1.12	1.13	1.09	1.01	0.76	0.79	0.85	0.83	0.77	0.70	0.73
125	1.06	1.12	1.19	1.21	1.20	1.13	1.17	1.15	1.18	1.18	1.15	1.07	0.81	0.83	0.89	0.90	0.81	0.75	0.80
130	1.07	1.14	1.24	1.25	1.23	1.18	1.23	1.20	1.22	1.22	1.20	1.08	0.80	0.84	0.95	0.95	0.89	0.83	0.86
135	1.05	1.11	1.26	1.29	1.26	1.19	1.25	1.20	1.24	1.26	1.22	1.06	0.80	0.83	0.94	0.97	0.95	0.88	0.93
140	1.01	1.08	1.29	1.33	1.27	1.18	1.23	1.18	1.25	1.30	1.24	1.04	0.76	0.82	0.91	1.02	0.95	0.91	0.98
145	0.98	1.06	1.28	1.39	1.30	1.20	1.23	1.20	1.29	1.36	1.23	1.04	0.72	0.81	0.89	1.00	1.04	0.94	1.00
150	0.94	1.05	1.23	1.41	1.37	1.25	1.26	1.23	1.34	1.35	1.17	1.04	0.68	0.77	0.86	0.89	1.00	1.01	1.07
155	0.92	1.03	1.17	1.33	1.36	1.33	1.35	1.30	1.30	1.29	1.13	1.02	0.65	0.75	0.87	0.88	0.83	0.85	0.94
160	0.89	1.00	1.11	1.20	1.27	1.21	1.25	1.21	1.23	1.17	1.08	0.99	0.63	0.74	0.82	0.86	0.83	0.77	0.79
165	0.84	0.94	1.08	1.13	1.13	1.04	1.07	1.05	1.10	1.08	1.02	0.90	0.62	0.72	0.77	0.88	0.87	0.77	0.78
170	0.83	0.92	1.09	1.11	1.06	0.99	0.95	0.98	1.04	1.05	1.01	0.88	0.70	0.71	0.82	0.89	0.87	0.78	0.86
175	0.83	0.89	1.02	1.05	1.01	0.96	0.96	0.94	1.03	1.05	0.96	0.85	0.73	0.75	0.85	0.92	0.88	0.79	0.88
180	0.81	0.85	0.96	1.02	0.93	0.87	0.93	0.86	0.93	1.04	0.99	0.86	0.81	0.85	0.97	1.01	0.93	0.88	0.93

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:120.02V I:0.1478A P:16.441W PF:0.9266 Freq:59.98Hz Lamp Flux:1089.29x1 lm		
NAME: ASD-UCL-32D16CC-2700K	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	370	370	370	370	370														
5	369	370	370	370	371														
10	363	366	366	367	368														
15	354	359	360	362	364														
20	342	349	352	356	358														
25	326	337	342	347	348														
30	308	322	329	336	333														
35	288	305	314	324	311														
40	265	284	297	309	287														
45	241	261	277	285	261														
50	215	234	255	254	232														
55	187	206	224	221	203														
60	157	176	189	187	171														
65	126	142	152	151	138														
70	94.7	107	115	115	105														
75	65.2	73.8	79.6	79.9	73.1														
80	37.4	42.7	46.6	47.2	43.2														
85	13.7	16.8	18.6	20.0	17.9														
90	0.37	0.58	0.78	0.89	0.90														
95	0.35	0.42	0.47	0.48	0.35														
100	0.40	0.47	0.51	0.49	0.43														
105	0.48	0.56	0.61	0.58	0.54														
110	0.59	0.66	0.70	0.68	0.64														
115	0.67	0.74	0.79	0.79	0.74														
120	0.74	0.81	0.86	0.88	0.84														
125	0.79	0.85	0.93	0.92	0.88														
130	0.88	0.93	0.98	0.98	0.89														
135	0.93	0.99	1.00	0.96	0.88														
140	0.97	1.00	1.04	0.94	0.86														
145	0.99	1.04	1.00	0.93	0.84														
150	1.06	1.01	0.92	0.91	0.82														
155	0.88	0.87	0.90	0.91	0.80														
160	0.81	0.86	0.88	0.87	0.76														
165	0.85	0.89	0.90	0.85	0.77														
170	0.88	0.89	0.93	0.89	0.82														
175	0.85	0.86	0.93	0.95	0.85														
180	0.86	0.94	1.04	0.99	0.86														

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: