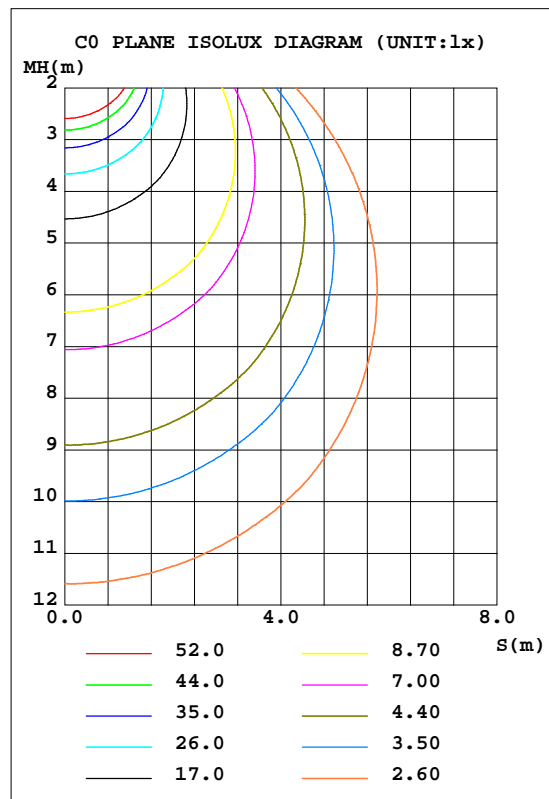
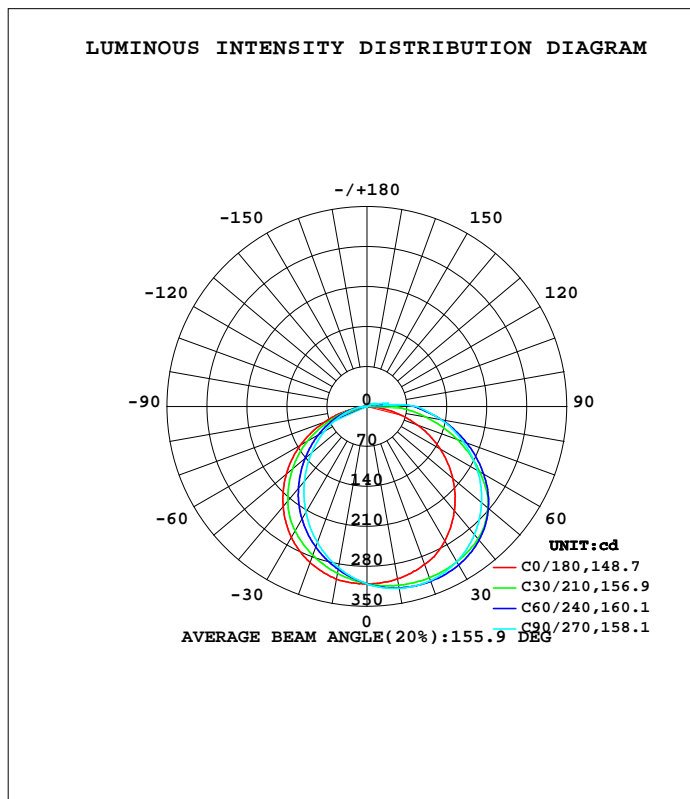


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.90V I:0.1368A P:15.389W PF:0.9385 Freq:59.98Hz Lamp Flux:1057.1x1 lm		
NAME: ASD-UCB-32D16CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.69 lm/W			
MOBESD-UCB-32D16CC-WH-5000K		I _{max} (cd)	327.9	S/MH(C0/180)	1.27
NOMINAL POWER(W)	16	LOR(%)	100.0	S/MH(C90/270)	1.05
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1057.1	h UP, DN(C0-180)	2.9,61.0
NOMINAL FLUX(lm)	1057.1	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.3,35.8
LAMPS INSIDE	1	h up(%)	3.2	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120	h down(%)	96.8	CIBSE SHR MAX	1.55



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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	306.4	320.7	323.3	320.2	307.1	292.9	286.4	293.7	0- 10	29.44	29.44	2.79,2.79
20	294.6	323.4	324.5	323.3	290.9	268.6	253.4	270.0	10- 20	85.15	114.6	10.8,10.8
30	272.4	319.0	314.2	319.2	264.9	238.1	214.0	235.9	20- 30	131.5	246.1	23.3,23.3
40	238.4	307.2	292.8	307.3	228.3	201.4	170.6	195.4	30- 40	162.9	409.1	38.7,38.7
50	196.4	286.4	261.9	278.4	184.3	156.4	126.8	151.4	40- 50	175.0	584.0	55.2,55.2
60	147.8	250.2	223.4	237.8	133.9	108.2	85.53	105.9	50- 60	165.3	749.3	70.9,70.9
70	93.56	195.4	178.6	179.9	78.84	61.85	48.94	62.86	60- 70	135.4	884.7	83.7,83.7
80	38.74	133.6	130.8	115.6	25.86	22.40	19.58	23.40	70- 80	91.38	976.1	92.3,92.3
90	1.211	76.53	86.50	61.67	0.3426	1.016	2.026	1.602	80- 90	47.13	1023	96.8,96.8
100	0.6902	20.13	35.40	14.66	0.6034	1.220	1.208	1.095	90-100	16.48	1040	98.4,98.4
110	1.145	11.49	15.39	8.624	0.8521	1.437	1.453	1.307	100-110	6.773	1046	99,99
120	1.373	5.577	9.209	5.404	0.9556	1.377	1.436	1.292	110-120	4.197	1051	99.4,99.4
130	1.432	4.370	5.484	4.326	0.9043	1.328	1.265	1.221	120-130	2.568	1053	99.6,99.6
140	1.298	3.041	4.367	3.065	0.8384	1.266	1.162	1.140	130-140	1.745	1055	99.8,99.8
150	1.196	1.679	3.826	1.721	0.7686	1.097	1.086	1.070	140-150	1.142	1056	99.9,99.9
160	1.017	1.324	1.743	1.348	0.6919	0.8521	0.8628	0.8844	150-160	0.5902	1057	100,100
170	0.9262	1.225	1.448	1.255	0.7166	0.7162	0.7032	0.8036	160-170	0.2961	1057	100,100
180	0.8336	0.9104	0.8196	0.9324	0.8314	0.9090	0.8206	0.9374	170-180	0.0877	1057	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 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:119.90V I:0.1368A P:15.389W PF:0.9385 Freq:59.98Hz Lamp Flux:1057.1x1 lm										
NAME: ASD-UCB-32D16CC-WH-5000K					TYPE:0			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	12.5	14.0	12.8	14.3	14.6	13.4	15.0	13.8	15.2	15.5
3H	14.1	15.5	14.5	15.8	16.2	15.8	17.2	16.1	17.5	17.8
4H	14.8	16.1	15.1	16.5	16.8	17.0	18.3	17.3	18.6	19.0
6H	15.2	16.5	15.6	16.9	17.2	18.2	19.5	18.6	19.8	20.2
8H	15.4	16.6	15.8	17.0	17.3	18.9	20.1	19.3	20.5	20.8
12H	15.4	16.6	15.8	17.0	17.4	19.6	20.8	20.0	21.2	21.5
4H 2H	13.6	14.9	13.9	15.2	15.6	14.2	15.6	14.6	15.9	16.2
3H	15.5	16.7	15.9	17.0	17.4	16.8	18.0	17.2	18.3	18.7
4H	16.3	17.4	16.8	17.8	18.2	18.1	19.2	18.6	19.6	20.0
6H	17.0	18.0	17.4	18.4	18.8	19.6	20.6	20.0	21.0	21.4
8H	17.2	18.1	17.7	18.6	19.0	20.4	21.3	20.8	21.7	22.2
12H	17.3	18.2	17.8	18.6	19.1	21.2	22.0	21.7	22.5	23.0
8H 4H	17.2	18.1	17.6	18.5	19.0	18.6	19.5	19.1	19.9	20.4
6H	18.1	18.9	18.6	19.4	19.9	20.3	21.1	20.8	21.6	22.1
8H	18.5	19.2	19.1	19.7	20.2	21.3	22.0	21.8	22.4	23.0
12H	18.8	19.4	19.4	19.9	20.5	22.4	22.9	22.9	23.5	24.0
12H 4H	17.3	18.2	17.8	18.6	19.1	18.7	19.5	19.1	19.9	20.4
6H	18.5	19.2	19.0	19.7	20.2	20.5	21.2	21.0	21.7	22.2
8H	19.1	19.7	19.6	20.2	20.7	21.5	22.1	22.1	22.6	23.2
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	+ 0.3 / - 0.6					+ 0.2 / - 0.4				

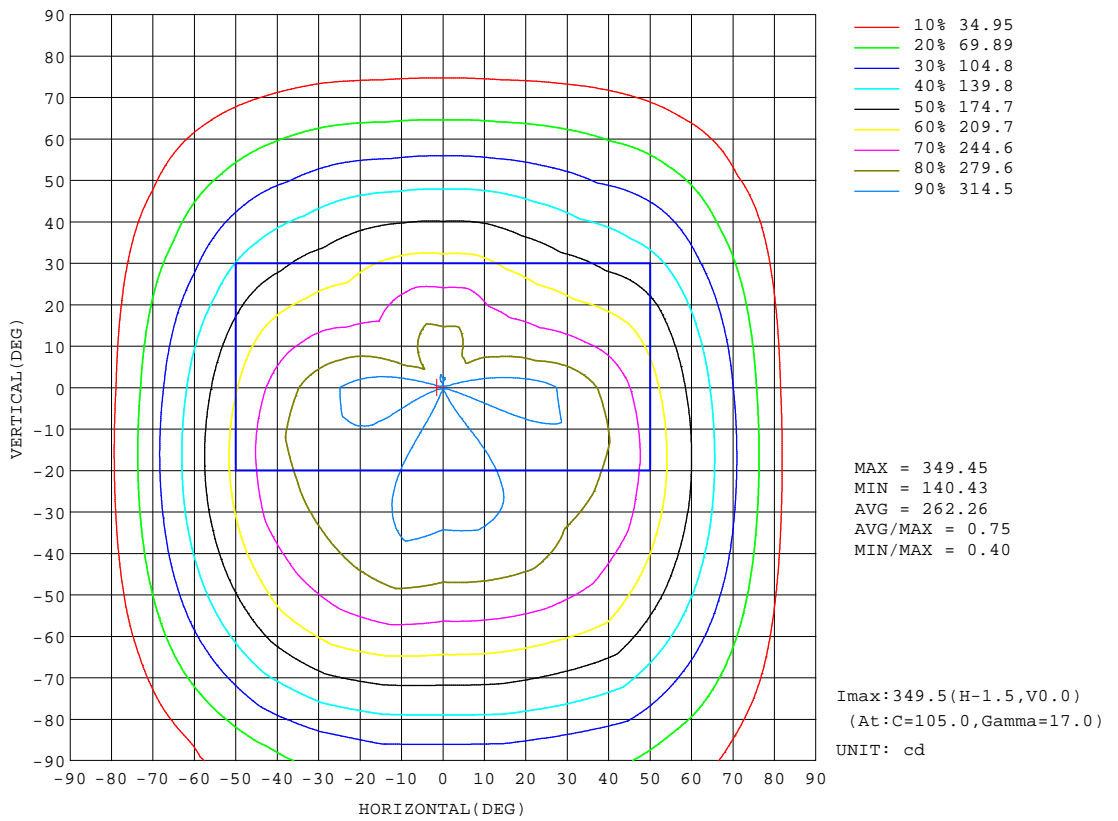
CIE Pub.117, 1057 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.2)

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:119.90V I:0.1368A P:15.389W PF:0.9385 Freq:59.98Hz Lamp Flux:1057.1x1 lm		
NAME: ASD-UCB-32D16CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



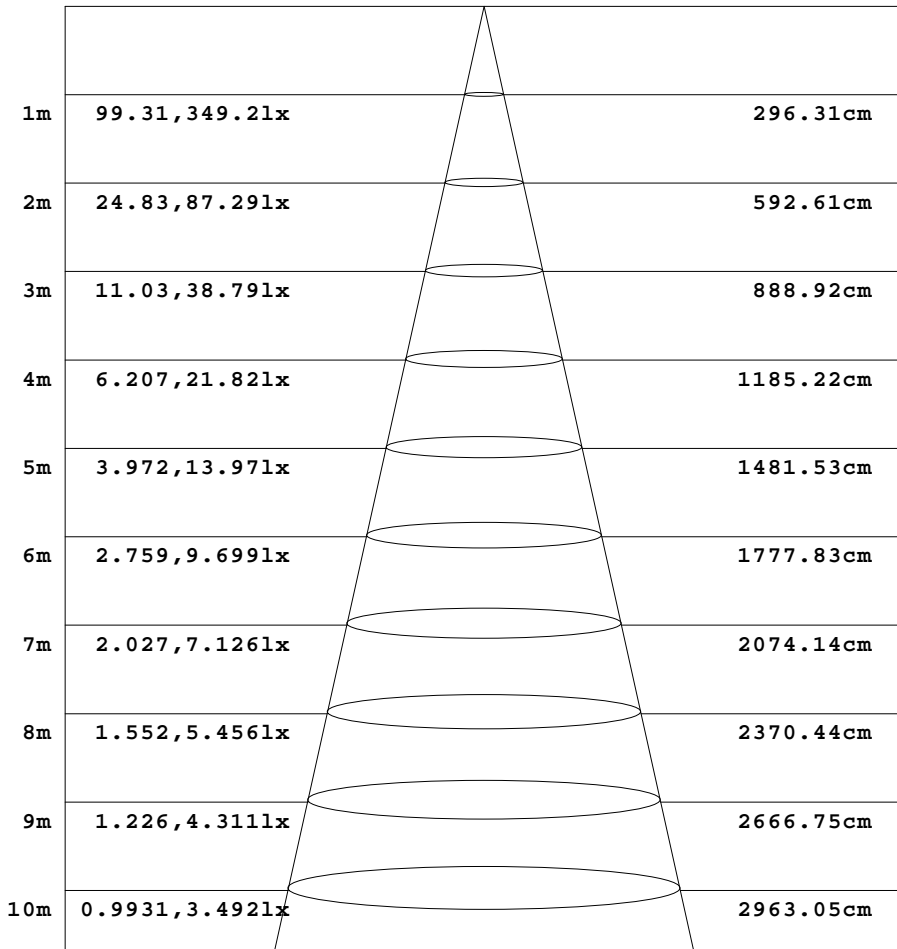
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 21 April 2021

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:

AAI Figure

Test:U:119.90V I:0.1368A P:15.389W PF:0.9385 Freq:59.98Hz Lamp Flux:1057.1x1 lm		
NAME: ASD-UCB-32D16CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:685.8 lm



Height Eavg, Emax Angle:111.96deg Diameter

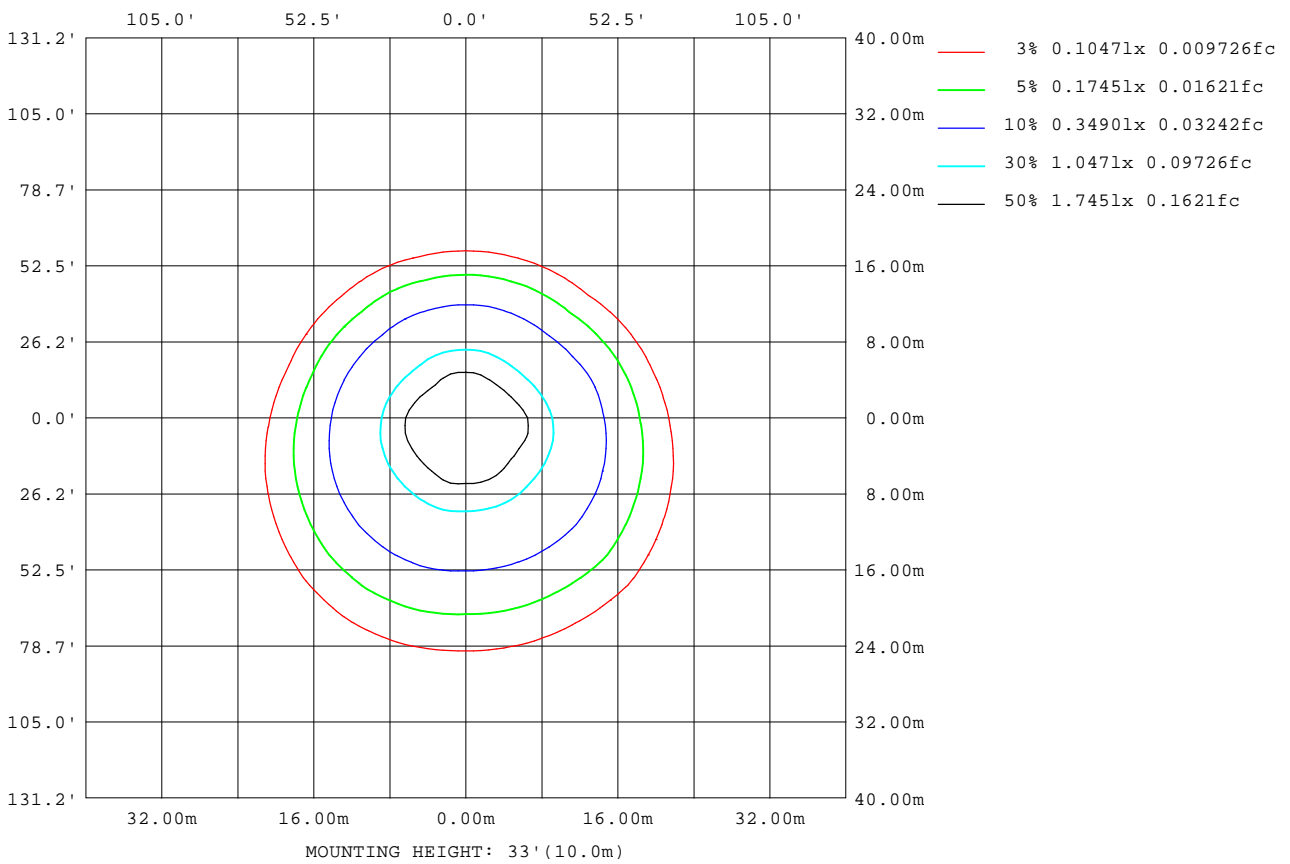
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

ISOLUX DIAGRAM

Test:U:119.90V I:0.1368A P:15.389W PF:0.9385 Freq:59.98Hz Lamp Flux:1057.1x1 lm		
NAME: ASD-UCB-32D16CC-WH-5000K	TYPE:0	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 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:

LED Avg.L Report

Test:U:119.90V I:0.1368A P:15.389W PF:0.9385 Freq:59.98Hz Lamp Flux:1057.1x1 lm		
NAME: ASD-UCB-32D16CC-WH-5000K	TYPE:0	WEIGHT:
SPEC.:16W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

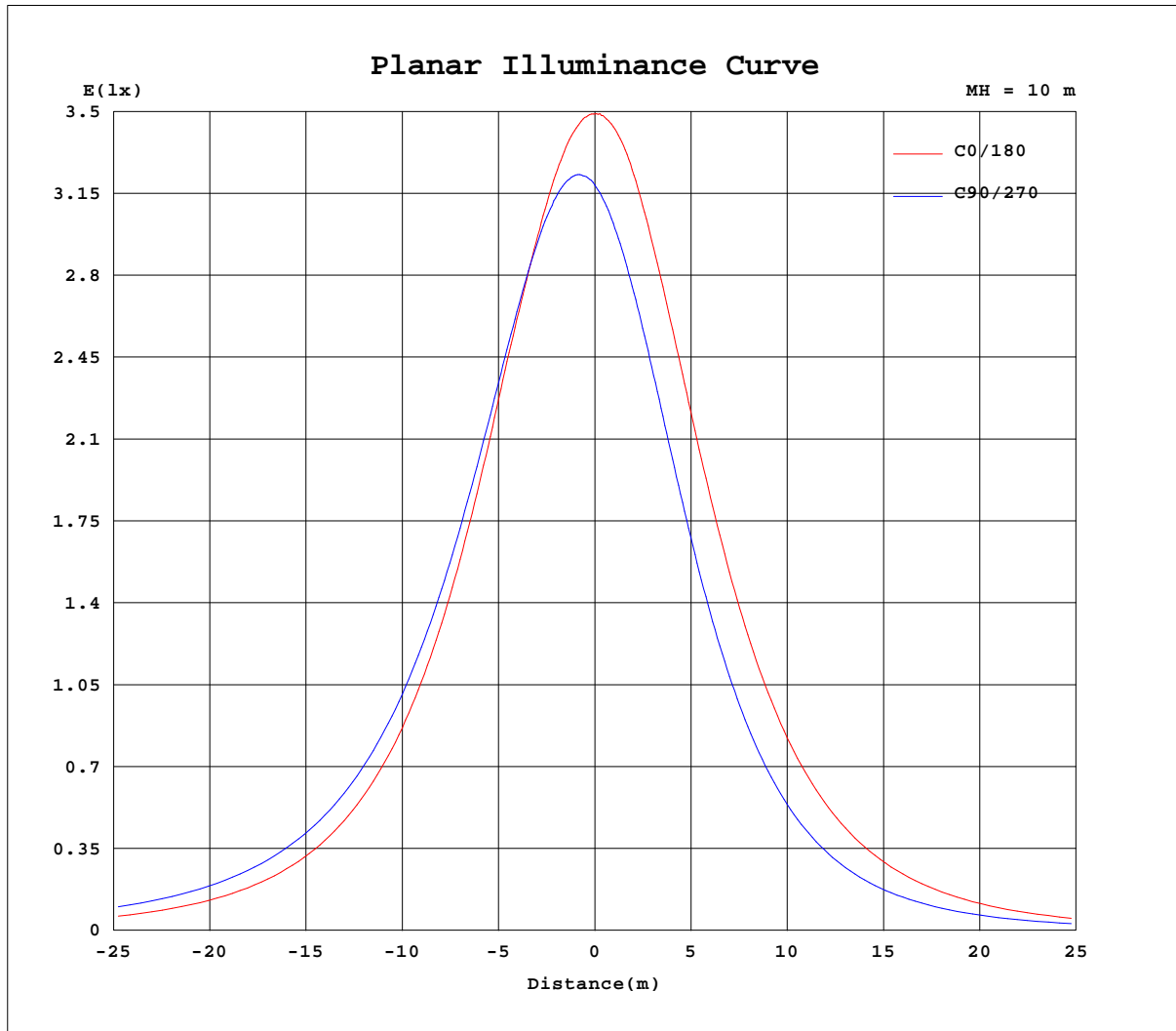
AvgL	cd/m2
L_0~180(65)av	539
L_0~180(75)av	452
L_0~180(85)av	253
L_90~270(65)av	634
L_90~270(75)av	728
L_90~270(85)av	1329
L_45(65)av	716
L_45(75)av	762
L_45(85)av	1175

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 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 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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.90V I:0.1368A P:15.389W PF:0.9385 Freq:59.98Hz Lamp Flux:1057.1x1 lm		
NAME: ASD-UCB-32D16CC-WH-5000K	TYPE:0	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	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310	310
5	309	313	315	316	318	318	318	318	317	316	315	313	310	306	304	302	301	300	300
10	306	314	318	321	322	323	323	324	322	320	318	314	307	301	297	293	290	287	286
15	302	315	319	323	325	325	326	327	325	323	319	314	300	295	288	282	277	272	271
20	295	314	319	323	326	324	325	328	326	323	318	313	291	285	277	269	262	255	253
25	286	311	317	323	324	320	321	325	325	322	315	308	279	272	265	254	246	235	235
30	272	306	314	319	321	313	314	321	322	319	309	300	265	257	252	238	228	215	214
35	256	297	310	314	314	303	305	312	317	314	299	289	248	241	236	221	208	193	193
40	238	280	302	307	305	291	293	301	310	307	288	272	228	224	216	201	187	171	171
45	218	260	292	298	293	277	278	287	299	295	274	250	207	204	194	180	164	149	149
50	196	238	276	286	277	261	262	270	284	278	256	226	184	180	170	156	142	127	127
55	173	214	255	270	258	242	244	251	266	259	232	201	160	152	146	132	119	106	106
60	148	188	228	250	236	222	223	230	245	238	205	173	134	124	120	108	97.4	85.2	85.5
65	121	160	199	225	211	200	202	206	221	210	175	144	107	94.7	91.6	85.3	76.2	66.6	66.5
70	93.6	130	168	195	185	178	179	181	194	180	145	113	78.8	67.4	65.3	61.9	56.2	48.9	48.9
75	66.0	99.8	136	164	159	154	155	156	164	148	113	82.0	51.1	41.8	41.7	40.4	37.5	32.8	33.1
80	38.7	68.9	103	134	132	130	131	132	134	116	80.7	50.9	25.9	20.8	22.4	22.4	21.6	19.1	19.6
85	15.0	40.5	73.3	102	105	105	107	107	104	84.6	51.2	23.1	7.04	6.79	8.20	9.11	9.37	8.63	8.97
90	1.21	19.3	49.4	76.5	83.4	85.3	86.5	85.8	81.9	61.7	31.3	6.75	0.34	0.50	0.72	1.02	1.48	1.49	2.03
95	0.50	5.36	22.4	28.0	31.5	37.3	37.1	35.3	30.5	26.1	10.5	1.64	0.45	0.62	0.80	0.96	0.99	0.98	0.99
100	0.69	2.92	10.04	20.1	27.0	33.0	35.4	31.4	23.1	14.7	6.67	1.17	0.60	0.83	1.05	1.22	1.23	1.20	1.21
105	0.92	2.21	8.01	14.8	17.0	17.9	18.8	18.9	18.1	11.9	4.54	1.52	0.73	0.96	1.21	1.37	1.40	1.38	1.39
110	1.15	2.29	5.75	11.5	14.1	15.7	15.4	15.5	13.8	8.62	3.65	1.70	0.85	1.05	1.28	1.44	1.49	1.47	1.45
115	1.27	2.33	4.60	7.75	10.8	12.7	12.5	11.9	10.06	6.35	3.45	1.69	0.92	1.11	1.31	1.46	1.50	1.46	1.45
120	1.37	2.50	4.06	5.58	7.65	9.51	9.21	8.39	7.24	5.40	3.50	1.76	0.96	1.14	1.36	1.38	1.46	1.44	1.44
125	1.45	2.29	3.60	4.78	5.76	6.90	6.73	6.07	5.77	4.85	3.05	1.70	0.95	1.11	1.28	1.37	1.33	1.36	1.38
130	1.43	2.09	3.06	4.37	5.00	5.69	5.48	5.09	5.03	4.33	2.54	1.58	0.90	1.04	1.25	1.33	1.33	1.28	1.27
135	1.39	1.92	2.83	3.89	4.50	5.07	4.89	4.50	4.44	3.32	2.24	1.52	0.87	0.97	1.18	1.31	1.25	1.19	1.22
140	1.30	1.75	2.09	3.04	4.43	4.52	4.37	4.21	3.68	3.07	1.94	1.33	0.84	0.93	1.13	1.27	1.24	1.15	1.16
145	1.25	1.58	1.83	2.83	3.56	4.33	4.41	3.69	3.14	2.00	1.72	1.30	0.80	0.90	1.06	1.16	1.19	1.13	1.17
150	1.20	1.44	1.57	1.68	2.08	3.63	3.83	3.31	1.74	1.72	1.38	1.26	0.77	0.85	0.94	1.10	1.05	1.05	1.09
155	1.11	1.38	1.35	1.45	1.79	1.97	2.02	1.70	1.60	1.51	1.41	1.19	0.73	0.81	0.88	0.96	0.99	0.96	1.00
160	1.02	1.30	1.36	1.32	1.77	1.63	1.74	1.58	1.55	1.35	1.28	1.12	0.69	0.78	0.85	0.85	0.83	0.83	0.86
165	0.91	1.15	1.26	1.34	1.24	1.58	1.61	1.37	1.51	1.32	1.18	0.96	0.65	0.71	0.76	0.79	0.74	0.68	0.70
170	0.93	1.15	1.23	1.22	1.22	1.55	1.45	1.34	1.34	1.25	1.15	0.92	0.72	0.70	0.73	0.72	0.68	0.63	0.70
175	0.88	1.03	1.13	1.11	0.97	1.04	1.25	1.18	1.24	1.10	0.97	0.87	0.74	0.68	0.69	0.72	0.66	0.59	0.67
180	0.83	0.85	0.90	0.91	0.81	0.76	0.82	0.79	0.91	0.93	0.89	0.87	0.83	0.85	0.90	0.91	0.81	0.77	0.82

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.90V I:0.1368A P:15.389W PF:0.9385 Freq:59.98Hz Lamp Flux:1057.1x1 lm		
NAME: ASD-UCB-32D16CC-WH-5000K	TYPE:0	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	310	310	310	310	310																
5	300	302	303	304	307																
10	287	291	294	294	300																
15	272	278	283	283	292																
20	255	264	270	270	281																
25	236	248	254	256	269																
30	216	229	236	240	257																
35	195	208	216	223	243																
40	173	186	195	205	227																
45	151	164	174	186	211																
50	129	142	151	165	193																
55	107	120	129	144	167																
60	86.3	97.9	106	121	139																
65	67.4	77.0	84.4	96.4	109																
70	49.4	57.3	62.9	69.3	80.4																
75	33.1	38.2	42.3	44.3	51.2																
80	19.2	22.1	23.4	23.5	25.9																
85	8.72	9.55	9.46	8.68	8.18																
90	1.86	2.09	1.60	1.34	0.74																
95	0.97	0.95	0.84	0.64	0.50																
100	1.18	1.19	1.09	0.88	0.73																
105	1.37	1.36	1.25	1.04	0.85																
110	1.45	1.44	1.31	1.12	0.96																
115	1.45	1.45	1.33	1.16	1.03																
120	1.41	1.39	1.29	1.21	1.09																
125	1.29	1.27	1.25	1.17	1.07																
130	1.26	1.26	1.22	1.11	1.02																
135	1.18	1.23	1.23	1.07	0.98																
140	1.13	1.22	1.14	1.03	0.94																
145	1.14	1.15	1.12	0.97	0.92																
150	1.04	1.08	1.07	0.93	0.90																
155	0.98	1.02	0.95	0.91	0.87																
160	0.85	0.87	0.88	0.86	0.85																
165	0.76	0.81	0.83	0.81	0.77																
170	0.71	0.75	0.80	0.82	0.80																
175	0.66	0.73	0.78	0.82	0.83																
180	0.80	0.91	0.94	0.89	0.87																

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: