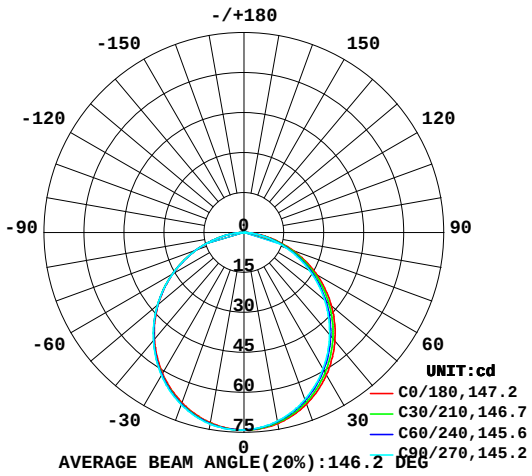
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.10V I:0.0270A P:3.1636W PF:0.9772 Freq:59.98Hz Lamp Flux:202.305x1 lm		
NAME: ASD-UCL-9D3CC-2700K	TYPE:	WEIGHT:
SPEC.:3W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

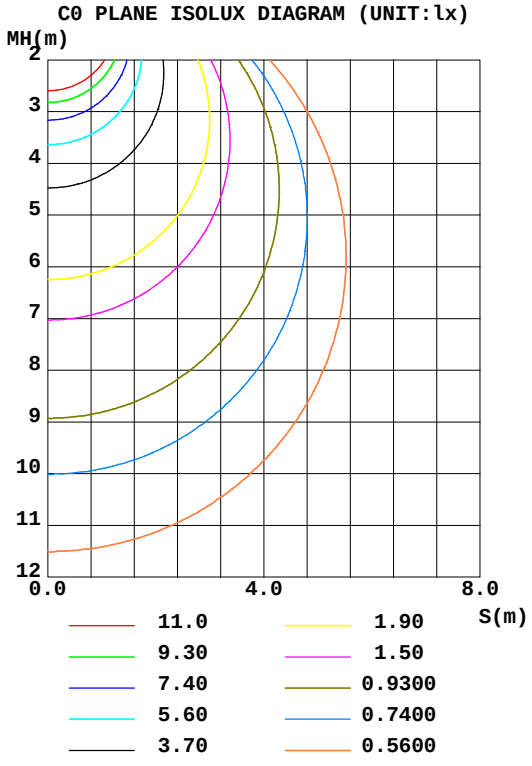
DATA OF LAMP		PHOTOMETRIC DATA Eff: 63.95 lm/W			
MODEL ASD-UCL-9D3CC-2700K		Imax(cd)	74.31	S/MH(C0/180)	1.23
NOMINAL POWER(W)	3	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	202.30	h UP,DN(C0-180)	0.3,48.9
NOMINAL FLUX(lm)	202.305	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.2,50.6
LAMPS INSIDE	1	h up(%)	0.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	h down(%)	99.5	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(20%):146.2 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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=1.0963]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	72.82	72.20	71.88	71.98	72.44	72.70	73.01	72.86	0- 10	6.998	6.998	3.46,3.46
20	68.62	67.49	66.74	67.07	67.95	68.43	68.78	68.74	10- 20	19.91	26.91	13.3,13.3
30	61.85	60.38	59.22	59.87	61.12	61.54	61.86	61.99	20- 30	29.84	56.75	28.1,28.1
40	53.04	51.37	50.01	50.81	52.34	52.60	52.88	53.11	30- 40	35.47	92.21	45.6,45.6
50	42.84	41.05	39.58	40.43	42.09	42.16	42.38	42.64	40- 50	36.24	128.5	63.5,63.5
60	31.50	29.80	28.37	29.24	30.77	30.73	30.86	30.96	50- 60	32.22	160.7	79.4,79.4
70	19.45	18.20	16.81	17.72	18.89	18.66	18.93	18.51	60- 70	24.07	184.7	91.3,91.3
80	8.107	6.993	6.265	6.771	7.605	7.525	7.594	7.358	70- 80	13.34	198.1	97.9,97.9
90	0.1137	0.0777	0.0850	0.0701	0.0432	0.0412	0.0427	0.0394	80- 90	3.171	201.3	99.5,99.5
100	0.1047	0.1128	0.1118	0.1043	0.0784	0.0767	0.0688	0.0714	90-100	0.0745	201.3	99.5,99.5
110	0.1720	0.1743	0.1647	0.1604	0.1350	0.1228	0.1169	0.1215	100-110	0.1233	201.5	99.6,99.6
120	0.2290	0.2303	0.2225	0.2124	0.1818	0.1611	0.1616	0.1655	110-120	0.1688	201.6	99.7,99.7
130	0.2533	0.2625	0.2512	0.2437	0.2013	0.1912	0.1955	0.1945	120-130	0.1865	201.8	99.8,99.8
140	0.2624	0.2772	0.2614	0.2599	0.2047	0.2010	0.2177	0.2009	130-140	0.1759	202.0	99.8,99.8
150	0.2508	0.2762	0.2618	0.2639	0.1922	0.1999	0.1995	0.1987	140-150	0.1455	202.1	99.9,99.9
160	0.2328	0.2204	0.2679	0.2049	0.1653	0.1475	0.1854	0.1704	150-160	0.0999	202.2	100,100
170	0.2094	0.2033	0.1903	0.1831	0.1673	0.1459	0.1935	0.1651	160-170	0.0535	202.3	100,100
180	0.2142	0.2163	0.2044	0.2146	0.2153	0.2156	0.2055	0.2146	170-180	0.0181	202.3	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=1.0963]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.10V I:0.0270A P:3.1636W PF:0.9772 Freq:59.98Hz Lamp Flux:202.305x1 lm		
NAME: ASD-UCL-9D3CC-2700K	TYPE:	WEIGHT:
SPEC.:3W	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	5.7	7.2	6.0	7.4	7.6	5.3	6.8	5.6	7.0	7.2
	3H	7.2	8.6	7.5	8.9	9.1	6.7	8.1	7.0	8.3	8.6
	4H	7.8	9.1	8.2	9.4	9.7	7.2	8.5	7.5	8.8	9.0
	6H	8.3	9.5	8.6	9.8	10.1	7.5	8.7	7.8	9.0	9.3
	8H	8.4	9.6	8.7	9.9	10.2	7.6	8.8	7.9	9.1	9.4
	12H	8.4	9.6	8.8	9.9	10.2	7.6	8.7	7.9	9.0	9.4
4H	2H	6.3	7.6	6.6	7.8	8.1	5.9	7.2	6.2	7.5	7.8
	3H	7.9	9.1	8.3	9.4	9.7	7.5	8.6	7.8	8.9	9.2
	4H	8.7	9.7	9.0	10.0	10.4	8.1	9.2	8.5	9.5	9.8
	6H	9.2	10.1	9.6	10.5	10.9	8.5	9.5	8.9	9.8	10.2
	8H	9.4	10.3	9.8	10.6	11.0	8.6	9.5	9.1	9.9	10.3
	12H	9.5	10.3	9.9	10.7	11.1	8.7	9.5	9.1	9.9	10.3
8H	4H	8.9	9.7	9.3	10.1	10.5	8.4	9.2	8.8	9.6	10.0
	6H	9.5	10.2	10.0	10.7	11.1	8.9	9.6	9.4	10.1	10.5
	8H	9.8	10.4	10.2	10.8	11.3	9.1	9.7	9.6	10.2	10.6
	12H	9.9	10.4	10.4	10.9	11.4	9.2	9.7	9.7	10.2	10.7
12H	4H	8.9	9.7	9.3	10.1	10.5	8.4	9.2	8.8	9.6	10.0
	6H	9.6	10.2	10.0	10.6	11.1	9.0	9.6	9.4	10.0	10.5
	8H	9.8	10.4	10.3	10.8	11.3	9.2	9.7	9.6	10.2	10.7
Variations with the observer position at spacings:											
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				

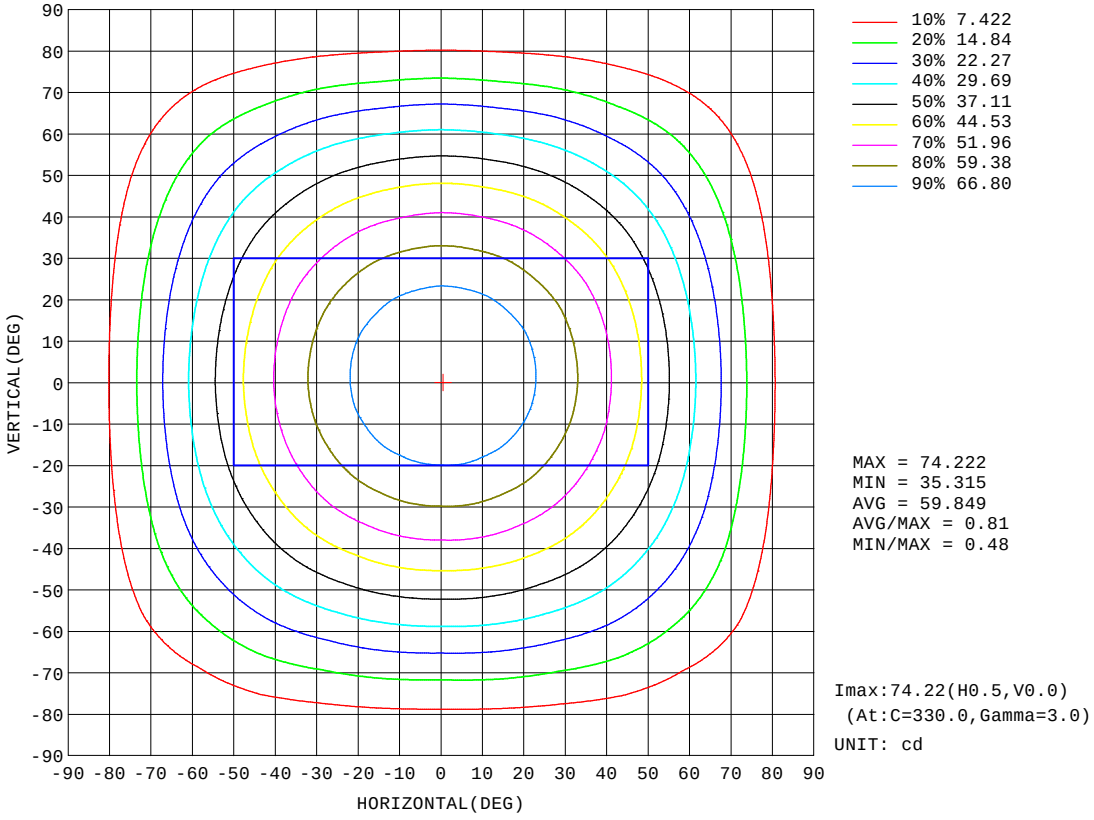
CIE Pub.117, 202.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -5.6)

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=1.0963]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.10V I:0.0270A P:3.1636W PF:0.9772 Freq:59.98Hz Lamp Flux:202.305x1 lm		
NAME: ASD-UCL-9D3CC-2700K	TYPE:	WEIGHT:
SPEC.:3W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



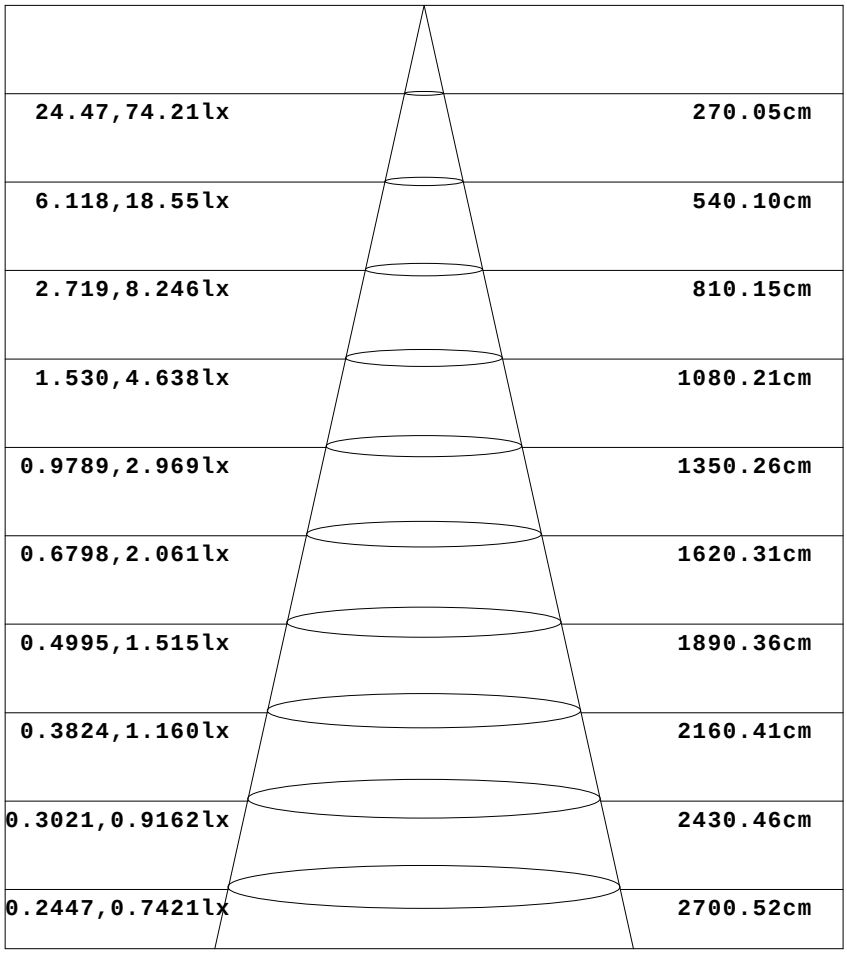
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:10 March 2021

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=1.0963]
Remarks:

AAI Figure

Test:U:120.10V I:0.0270A P:3.1636W PF:0.9772 Freq:59.98Hz Lamp Flux:202.305x1 lm		
NAME: ASD-UCL-9D3CC-2700K	TYPE:	WEIGHT:
SPEC.:3W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Flux out:140.4 lm



Height Eavg,Emax Angle:106.95deg Diameter

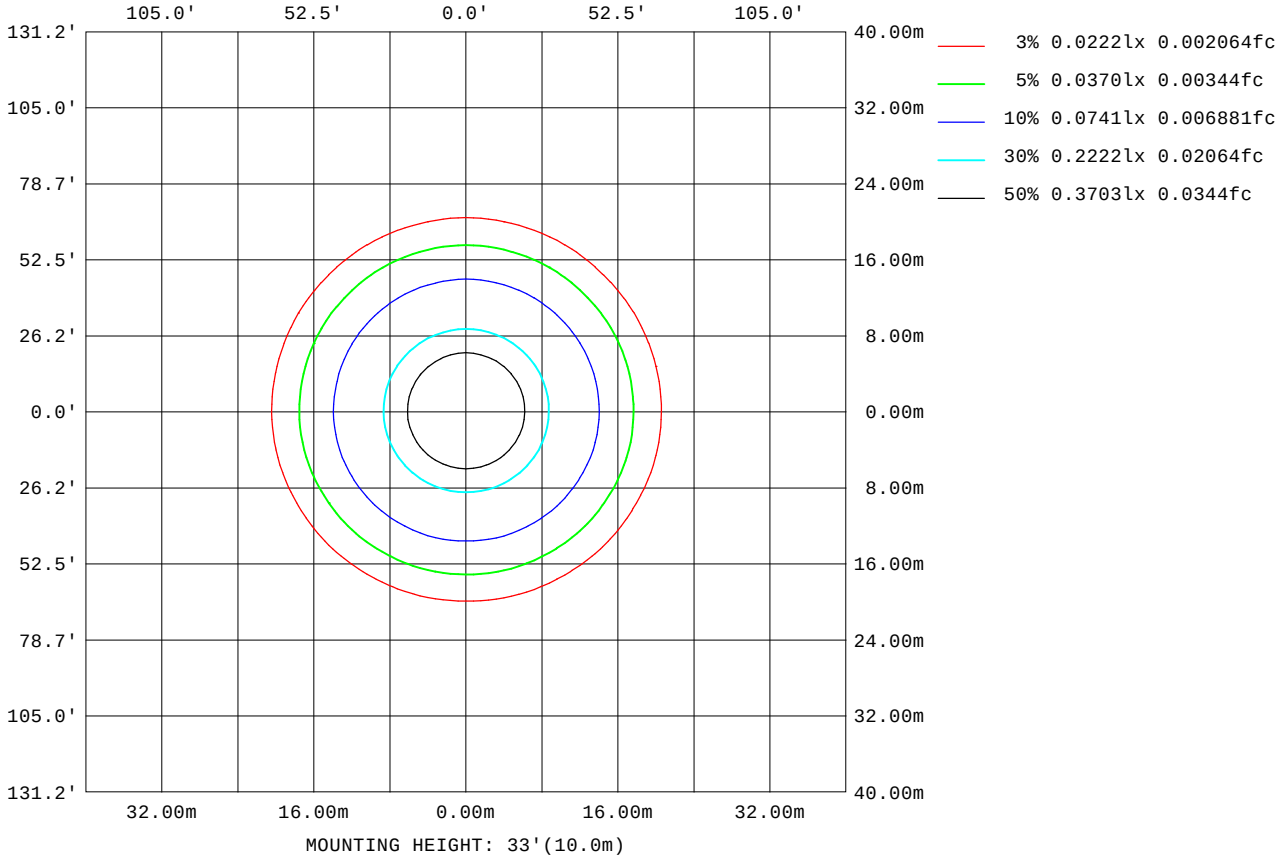
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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=1.0963]
Remarks:

ISOLUX DIAGRAM

Test:U:120.10V I:0.0270A P:3.1636W PF:0.9772 Freq:59.98Hz Lamp Flux:202.305x1 lm		
NAME: ASD-UCL-9D3CC-2700K	TYPE:	WEIGHT:
SPEC.:3W	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=1.0963]
Remarks:

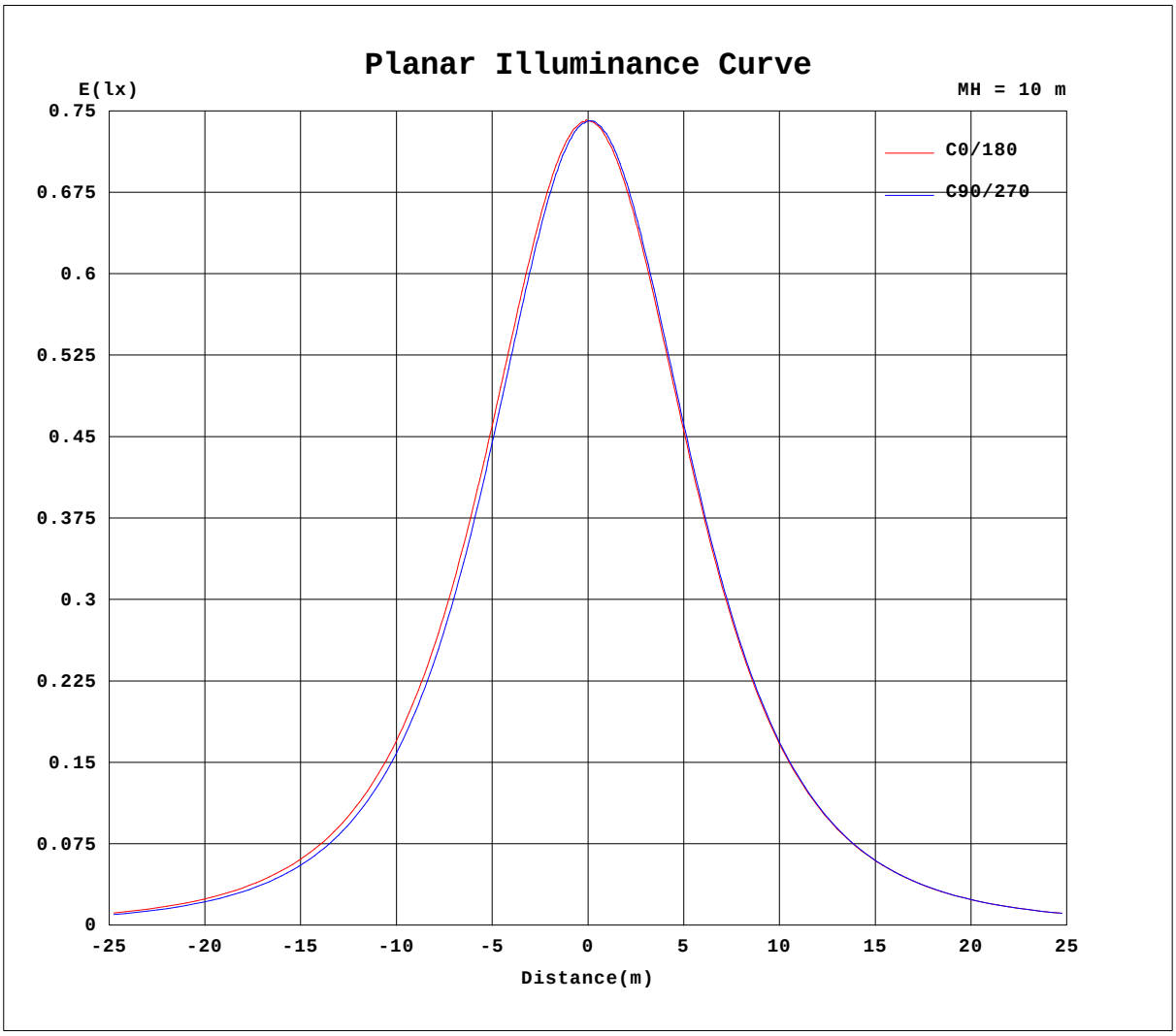
LED Avg.L Report

Test:U:120.10V I:0.0270A P:3.1636W PF:0.9772 Freq:59.98Hz Lamp Flux:202.305x1 lm		
NAME: ASD-UCL-9D3CC-2700K	TYPE:	WEIGHT:
SPEC.:3W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	119
L_0~180(75)av	102
L_0~180(85)av	75
L_90~270(65)av	112
L_90~270(75)av	94
L_90~270(85)av	55
L_45(65)av	115
L_45(75)av	96
L_45(85)av	61

Standard: GB/T 29293-2012

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=1.0963]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:0.0270A P:3.1636W PF:0.9772 Freq:59.98Hz Lamp Flux:202.305x1 lm		
NAME: ASD-UCL-9D3CC-2700K	TYPE:	WEIGHT:
SPEC.:3W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
5	73.8	73.7	73.7	73.5	73.4	73.5	73.3	73.3	73.4	73.3	73.6	73.5	73.7	73.6	73.8	73.7	73.9	74.0	73.9
10	72.8	72.6	72.4	72.2	72.1	72.1	71.9	71.9	71.9	72.0	72.2	72.3	72.4	72.4	72.7	72.7	72.9	73.0	73.0
15	71.0	70.7	70.5	70.2	69.9	69.8	69.7	69.7	69.8	69.9	70.2	70.2	70.5	70.6	71.0	70.9	71.1	71.2	71.2
20	68.6	68.2	67.9	67.5	67.1	67.1	66.7	66.8	66.9	67.1	67.5	67.7	67.9	68.0	68.5	68.4	68.6	68.7	68.8
25	65.4	65.1	64.6	64.3	63.6	63.6	63.3	63.3	63.4	63.7	64.2	64.5	64.9	64.8	65.2	65.3	65.4	65.5	65.6
30	61.9	61.4	60.9	60.4	59.7	59.6	59.2	59.3	59.5	59.9	60.3	60.7	61.1	61.2	61.6	61.5	61.6	61.8	61.9
35	57.7	57.2	56.6	56.1	55.4	55.2	54.8	54.9	55.1	55.5	56.0	56.5	56.8	57.0	57.4	57.3	57.4	57.5	57.6
40	53.0	52.7	52.0	51.4	50.7	50.4	50.0	50.2	50.3	50.8	51.4	51.8	52.3	52.4	52.8	52.6	52.7	52.7	52.9
45	48.2	47.7	47.0	46.4	45.6	45.3	44.9	45.0	45.2	45.8	46.3	46.9	47.4	47.4	47.7	47.6	47.6	47.6	47.8
50	42.8	42.4	41.7	41.0	40.3	40.0	39.6	39.7	39.9	40.4	41.0	41.5	42.1	42.1	42.4	42.2	42.3	42.2	42.4
55	37.3	36.9	36.1	35.5	34.7	34.5	34.1	34.2	34.3	34.9	35.5	36.1	36.5	36.5	36.8	36.5	36.6	36.5	36.7
60	31.5	31.1	30.3	29.8	29.0	28.8	28.4	28.5	28.7	29.2	29.7	30.3	30.8	30.8	30.9	30.7	30.8	30.7	30.9
65	25.5	25.2	24.5	23.9	23.2	23.0	22.6	22.8	22.9	23.4	23.8	24.4	24.8	24.8	25.0	24.7	24.8	24.7	24.8
70	19.4	19.3	18.5	18.2	17.4	17.3	16.8	17.1	17.1	17.7	17.9	18.6	18.9	18.8	19.0	18.7	18.9	18.6	18.9
75	13.5	13.4	12.7	12.5	11.7	11.6	11.3	11.5	11.5	12.1	12.2	12.8	13.0	12.8	13.1	12.8	13.0	12.7	13.0
80	8.11	7.99	6.69	6.99	6.54	6.46	6.27	6.36	6.39	6.77	6.23	7.43	7.60	7.60	7.70	7.53	7.59	7.48	7.59
85	3.43	2.05	2.11	2.40	2.15	2.09	1.98	2.07	2.10	2.36	2.13	1.61	3.07	3.02	3.08	2.89	2.87	2.76	2.85
90	0.11	0.09	0.09	0.08	0.09	0.09	0.09	0.08	0.08	0.07	0.09	0.07	0.04	0.04	0.04	0.04	0.04	0.05	0.04
95	0.08	0.09	0.10	0.09	0.08	0.07	0.08	0.08	0.08	0.08	0.09	0.09	0.05	0.05	0.05	0.05	0.04	0.05	0.05
100	0.10	0.11	0.12	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.11	0.11	0.08	0.07	0.07	0.08	0.06	0.08	0.07
105	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.11	0.10	0.10	0.10	0.09	0.10	0.10
110	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.17	0.16	0.17	0.17	0.13	0.12	0.12	0.12	0.12	0.12	0.12
115	0.20	0.20	0.20	0.21	0.20	0.20	0.20	0.19	0.19	0.19	0.19	0.20	0.16	0.15	0.14	0.14	0.13	0.14	0.14
120	0.23	0.22	0.22	0.23	0.23	0.23	0.22	0.21	0.21	0.21	0.22	0.21	0.18	0.17	0.16	0.16	0.16	0.16	0.16
125	0.24	0.24	0.25	0.25	0.25	0.24	0.25	0.23	0.22	0.23	0.23	0.23	0.20	0.18	0.18	0.18	0.17	0.18	0.18
130	0.25	0.25	0.26	0.26	0.25	0.24	0.25	0.24	0.25	0.24	0.24	0.24	0.20	0.19	0.18	0.19	0.18	0.19	0.20
135	0.26	0.25	0.27	0.27	0.26	0.25	0.27	0.25	0.25	0.26	0.25	0.25	0.20	0.19	0.19	0.20	0.19	0.19	0.20
140	0.26	0.26	0.27	0.28	0.27	0.26	0.26	0.25	0.26	0.26	0.26	0.25	0.20	0.19	0.20	0.20	0.20	0.21	0.22
145	0.26	0.25	0.27	0.28	0.28	0.27	0.27	0.26	0.26	0.26	0.25	0.24	0.20	0.19	0.19	0.19	0.20	0.22	0.23
150	0.25	0.24	0.26	0.28	0.27	0.27	0.26	0.25	0.27	0.26	0.23	0.24	0.19	0.18	0.17	0.20	0.18	0.19	0.20
155	0.24	0.24	0.24	0.26	0.26	0.26	0.26	0.26	0.25	0.23	0.23	0.23	0.18	0.17	0.17	0.18	0.18	0.19	0.19
160	0.23	0.23	0.22	0.22	0.24	0.25	0.27	0.25	0.22	0.20	0.21	0.22	0.17	0.17	0.15	0.15	0.16	0.18	0.19
165	0.21	0.21	0.21	0.20	0.21	0.22	0.21	0.20	0.19	0.18	0.19	0.20	0.15	0.15	0.14	0.15	0.17	0.18	0.20
170	0.21	0.22	0.22	0.20	0.20	0.20	0.19	0.19	0.18	0.18	0.20	0.20	0.17	0.16	0.15	0.15	0.16	0.18	0.19
175	0.21	0.21	0.22	0.21	0.21	0.21	0.20	0.20	0.21	0.20	0.19	0.20	0.19	0.18	0.17	0.18	0.17	0.17	0.17
180	0.21	0.21	0.21	0.22	0.21	0.20	0.20	0.20	0.20	0.21	0.21	0.20	0.22	0.21	0.21	0.22	0.21	0.20	0.21

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.010m [K=1.0963]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:0.0270A P:3.1636W PF:0.9772 Freq:59.98Hz Lamp Flux:202.305x1 lm		
NAME: ASD-UCL-9D3CC-2700K	TYPE:	WEIGHT:
SPEC.:3W	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

Table--2 UNIT: cd

g (DEG) \ C(DEG)	285	300	315	330	345														
0	74.1	74.1	74.1	74.1	74.1														
5	73.9	74.0	73.9	74.1	73.7														
10	73.0	73.1	72.9	73.2	72.7														
15	71.2	71.4	71.2	71.4	71.1														
20	68.8	69.0	68.7	69.0	68.7														
25	65.6	65.9	65.7	66.0	65.6														
30	61.9	62.1	62.0	62.3	62.0														
35	57.6	57.9	57.8	58.1	57.9														
40	52.8	53.1	53.1	53.5	53.3														
45	47.8	48.1	48.0	48.5	48.3														
50	42.3	42.6	42.6	43.1	43.0														
55	36.6	36.9	36.8	37.4	37.4														
60	30.7	30.9	31.0	31.4	31.5														
65	24.6	24.8	24.8	25.3	25.4														
70	18.6	18.8	18.5	19.1	19.2														
75	12.7	12.9	12.5	13.0	13.1														
80	7.49	7.56	7.36	7.46	7.64														
85	2.81	2.97	2.96	3.10	2.86														
90	0.05	0.04	0.04	0.04	0.05														
95	0.05	0.05	0.05	0.05	0.05														
100	0.07	0.07	0.07	0.07	0.08														
105	0.09	0.09	0.09	0.10	0.10														
110	0.12	0.12	0.12	0.13	0.13														
115	0.14	0.14	0.14	0.14	0.16														
120	0.16	0.16	0.17	0.17	0.18														
125	0.18	0.18	0.18	0.18	0.19														
130	0.19	0.19	0.19	0.19	0.20														
135	0.20	0.20	0.21	0.19	0.20														
140	0.22	0.22	0.20	0.20	0.20														
145	0.23	0.20	0.20	0.20	0.20														
150	0.20	0.20	0.20	0.19	0.19														
155	0.20	0.20	0.19	0.18	0.19														
160	0.19	0.17	0.17	0.17	0.19														
165	0.18	0.17	0.16	0.16	0.17														
170	0.17	0.16	0.17	0.18	0.18														
175	0.17	0.17	0.18	0.19	0.19														
180	0.20	0.21	0.21	0.21	0.20														

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=1.0963]
Remarks: