

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1335733

Luminaire Tested: P3A02R409727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R409727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

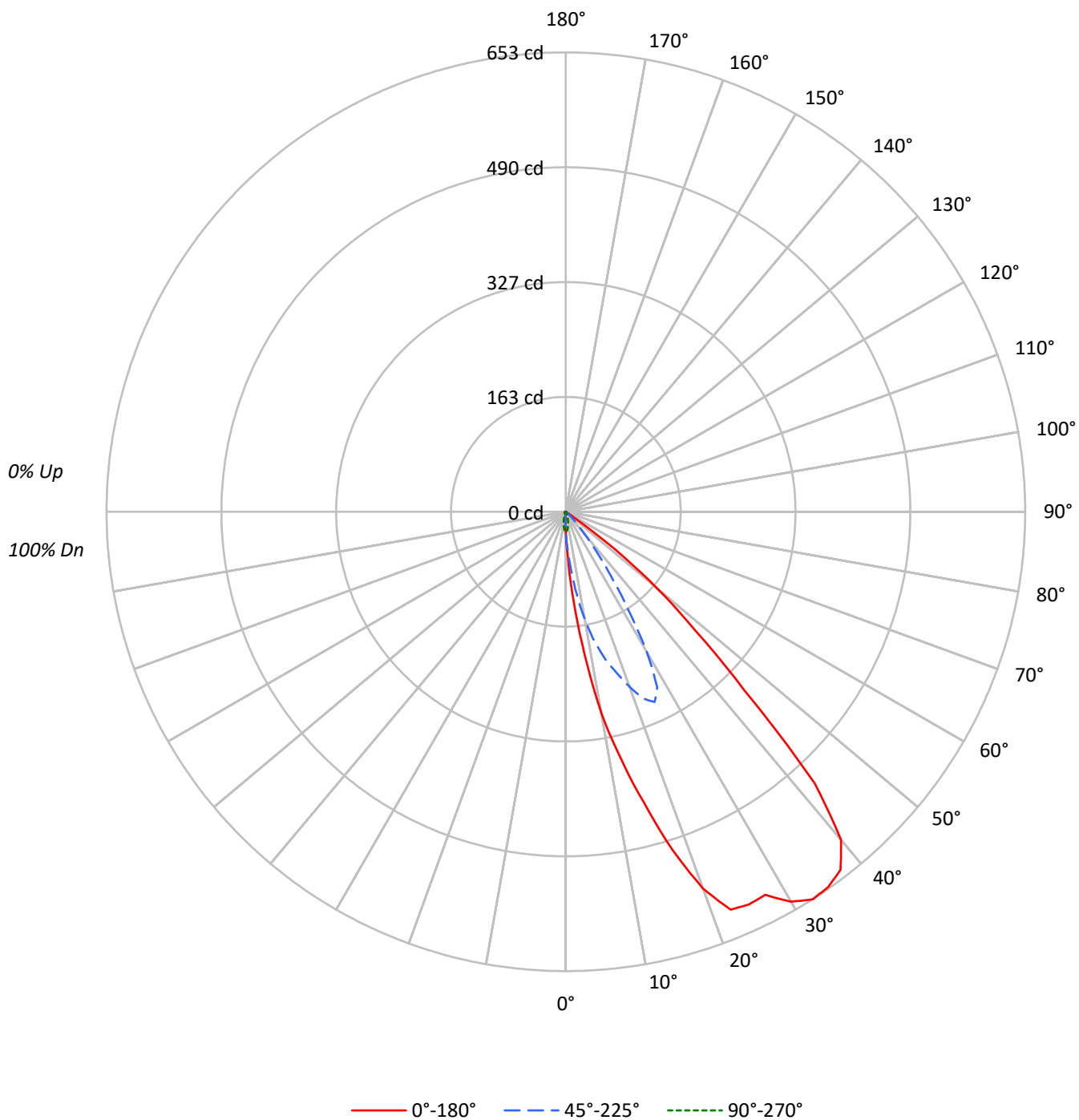
Lumens per Lamp: N/A
Luminaire Lumens: 240.9 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1335733

CATALOG NUMBER: P3A02R409727DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1335733

CATALOG NUMBER: P3A02R409727DE010 E3CA301MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6249	6249	6249	6249	6249
5°	28197	17984	5613	2157	1563
10°	64684	34735	3941	779	579
15°	97049	49285	2452	409	363
20°	132895	61792	1423	233	280
25°	148992	72198	750	194	242
30°	162050	58287	304	152	253
35°	174161	29821	107	214	321
40°	174212	11908	57	229	401
45°	111236	3969	124	372	558
50°	57755	478	205	478	682
55°	4970	76	229	612	841
60°	175	88	263	702	965
65°	208	104	415	726	1038
70°	128	128	513	769	1026
75°	169	169	508	847	1186
80°	253	253	758	758	1010
85°	0	503	1510	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 111236 cd/sqm

TEST NUMBER: P1335733

CATALOG NUMBER: P3A02R409727DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	2.3
10°-20°	32.6	13.5
20°-30°	71.4	29.7
30°-40°	81.4	33.8
40°-50°	42.9	17.8
50°-60°	5.1	2.1
60°-70°	0.9	0.4
70°-80°	0.7	0.3
80°-90°	0.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	109.6	45.5
0°-40°	191.0	79.3
0°-60°	239.0	99.2
0°-90°	240.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	240.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	128	82	26	10	7	17
15°	428	217	11	2	2	126
25°	616	298	3	1	1	284
35°	651	111	0	1	1	403
45°	359	13	0	1	2	289
55°	13	0	1	2	2	40
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1335733

CATALOG NUMBER: P3A02R409727DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
2.5°	63.6	63.6	63.3	61.5	61.3	61.1	57.8	57.0	53.2	50.5	38.5
5°	128.1	125.3	125.1	121.8	116.3	109.0	104.3	96.8	89.4	81.7	47.5
7.5°	204.1	206.5	199.8	196.4	184.1	175.4	161.9	150.1	133.6	118.1	54.8
10°	290.5	286.2	279.5	272.7	259.5	243.8	223.9	202.9	179.0	156.0	58.9
12.5°	357.9	352.4	348.3	339.1	326.1	305.9	282.1	254.0	222.4	189.2	58.7
15°	427.5	422.0	412.9	404.7	385.4	362.8	336.9	299.8	261.1	217.1	54.4
17.5°	504.1	497.0	486.8	474.4	455.7	430.6	397.8	352.6	297.8	239.9	46.6
20°	569.5	565.2	555.1	540.4	522.1	497.6	459.7	409.6	342.8	264.8	37.1
22.5°	612.3	608.4	601.5	588.7	574.8	548.7	514.1	459.1	380.5	287.4	28.1
25°	615.8	614.1	612.3	608.0	599.7	581.1	547.3	488.0	403.9	298.4	20.8
27.5°	613.9	613.3	612.9	610.7	605.2	586.8	552.2	492.3	400.9	281.3	15.3
30°	640.0	638.2	637.1	629.8	615.3	587.0	541.8	469.3	356.3	230.2	11.0
32.5°	653.2	652.8	651.8	644.7	624.3	587.4	524.3	413.7	282.5	166.2	7.5
35°	650.6	648.5	644.9	631.6	603.3	557.1	467.7	330.4	203.9	111.4	4.9
37.5°	641.6	636.9	629.8	606.0	568.3	505.1	379.3	243.2	138.7	72.1	2.9
40°	608.6	602.3	591.1	562.0	512.5	416.3	280.5	164.4	91.0	41.6	0.8
42.5°	523.3	515.1	507.0	474.4	417.8	310.4	184.5	101.6	51.9	22.8	0.2
45°	358.7	348.5	337.3	313.7	268.3	188.0	109.8	57.2	26.9	12.8	0.2
47.5°	249.1	244.4	224.9	194.7	149.3	99.6	56.8	28.1	14.3	5.9	0.2
50°	169.3	164.0	141.2	112.0	79.4	47.7	26.1	14.1	6.3	1.4	0.2
52.5°	88.8	82.3	67.8	51.7	32.2	20.0	11.4	6.1	1.8	0.2	0.2
55°	13.0	12.0	9.8	7.9	7.1	5.5	3.3	1.4	0.2	0.2	0.4
57.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.4	0.2	0.2	0.2	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.6
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1335733

CATALOG NUMBER: P3A02R409727DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	28.5	28.5	28.5	28.5	28.5
2.5°	28.1	20.8	16.1	13.9	13.6
5°	25.5	14.9	9.8	7.5	7.1
7.5°	21.6	10.4	5.7	4.1	3.9
10°	17.7	7.1	3.5	2.9	2.6
12.5°	14.1	4.7	2.4	2.2	2.0
15°	10.8	3.1	1.8	1.6	1.6
17.5°	8.1	2.0	1.4	1.4	1.4
20°	6.1	1.4	1.0	1.2	1.2
22.5°	4.3	1.0	0.8	1.0	1.0
25°	3.1	0.8	0.8	1.0	1.0
27.5°	2.0	0.6	0.6	0.8	1.0
30°	1.2	0.4	0.6	0.8	1.0
32.5°	0.6	0.4	0.6	1.0	1.0
35°	0.4	0.6	0.8	1.0	1.2
37.5°	0.2	0.6	0.8	1.2	1.2
40°	0.2	0.6	0.8	1.2	1.4
42.5°	0.4	0.8	1.0	1.4	1.6
45°	0.4	0.8	1.2	1.6	1.8
47.5°	0.4	0.8	1.4	1.8	1.8
50°	0.6	1.0	1.4	1.8	2.0
52.5°	0.6	1.0	1.4	2.0	2.2
55°	0.6	1.0	1.6	2.0	2.2
57.5°	0.6	1.2	1.6	2.0	2.2
60°	0.6	1.0	1.6	2.0	2.2
62.5°	0.8	1.0	1.4	2.0	2.0
65°	0.8	1.0	1.4	2.0	2.0
67.5°	0.8	1.0	1.4	1.8	1.8
70°	0.8	1.0	1.2	1.6	1.6
72.5°	0.8	1.0	1.2	1.4	1.6
75°	0.6	0.8	1.0	1.2	1.4
77.5°	0.6	0.8	0.8	1.2	1.2
80°	0.6	0.6	0.6	0.8	0.8
82.5°	0.6	0.6	0.4	0.6	0.6
85°	0.6	0.4	0.4	0.4	0.4
87.5°	0.4	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)