

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: P1335797

Luminaire Tested: P3A02R409827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335797
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: P3A02R409827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

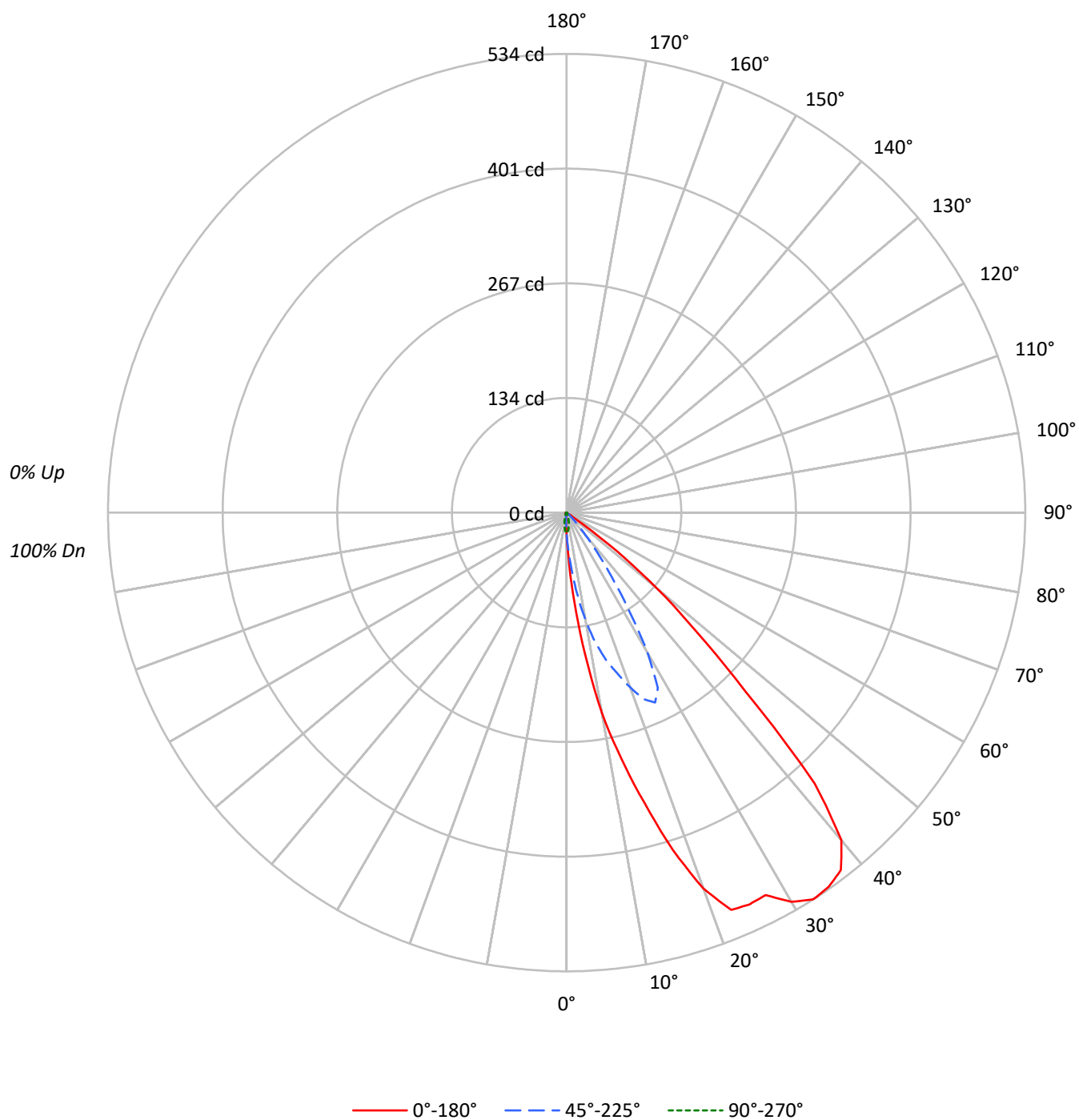
Lumens per Lamp: N/A
Luminaire Lumens: 197.0 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5109	5109	5109	5109	5109
5°	23046	14704	4578	1761	1277
10°	52860	28390	3229	623	490
15°	79342	40295	1998	341	295
20°	108626	50521	1167	187	233
25°	121773	59011	605	169	194
30°	132451	47628	253	127	203
35°	142359	24387	80	187	268
40°	142410	9733	57	200	344
45°	90924	3256	93	310	465
50°	47214	409	171	409	580
55°	4091	76	191	497	688
60°	132	88	219	570	789
65°	156	104	363	623	882
70°	128	128	449	641	833
75°	169	169	424	678	1017
80°	253	253	631	631	884
85°	0	503	1258	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 90924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	2.3
10°-20°	26.7	13.5
20°-30°	58.4	29.6
30°-40°	66.5	33.8
40°-50°	35.1	17.8
50°-60°	4.1	2.1
60°-70°	0.7	0.4
70°-80°	0.6	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°	89.6	45.5
0°-40°	156.1	79.2
0°-60°	195.4	99.2
0°-90°	197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	197.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	105	67	21	8	6	14
15°	350	178	9	2	1	103
25°	503	244	2	1	1	232
35°	532	91	0	1	1	330
45°	293	10	0	1	2	236
55°	11	0	0	1	2	33
65°	0	0	1	1	2	0
75°	0	0	0	1	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
2.5°	51.9	51.9	51.8	50.3	50.1	50.0	47.3	46.6	43.5	41.3	31.5
5°	104.7	102.4	102.2	99.6	95.1	89.1	85.2	79.1	73.1	66.8	38.8
7.5°	166.8	168.8	163.3	160.5	150.5	143.4	132.4	122.7	109.2	96.6	44.8
10°	237.4	233.9	228.4	222.9	212.1	199.3	183.0	165.8	146.4	127.5	48.1
12.5°	292.5	288.0	284.7	277.2	266.6	250.1	230.6	207.6	181.8	154.7	48.0
15°	349.5	345.0	337.5	330.8	315.0	296.5	275.4	245.1	213.5	177.5	44.5
17.5°	412.1	406.3	397.9	387.8	372.5	352.0	325.2	288.2	243.4	196.1	38.1
20°	465.5	462.0	453.7	441.7	426.7	406.8	375.8	334.8	280.2	216.5	30.3
22.5°	500.5	497.3	491.7	481.2	469.9	448.6	420.2	375.3	311.0	234.9	23.0
25°	503.3	502.0	500.5	497.0	490.2	475.0	447.4	398.9	330.2	243.9	17.0
27.5°	501.8	501.3	501.0	499.2	494.7	479.7	451.4	402.4	327.7	229.9	12.5
30°	523.1	521.6	520.8	514.8	503.0	479.9	442.9	383.6	291.2	188.1	9.0
32.5°	534.0	533.6	532.8	527.0	510.3	480.2	428.6	338.2	230.9	135.9	6.2
35°	531.8	530.1	527.1	516.3	493.2	455.4	382.3	270.1	166.7	91.1	4.0
37.5°	524.5	520.6	514.8	495.3	464.5	412.9	310.0	198.8	113.4	58.9	2.3
40°	497.5	492.3	483.2	459.4	418.9	340.3	229.3	134.4	74.4	34.0	0.7
42.5°	427.7	421.1	414.4	387.8	341.5	253.7	150.8	83.1	42.5	18.6	0.2
45°	293.2	284.9	275.7	256.4	219.3	153.7	89.7	46.8	22.0	10.5	0.2
47.5°	203.6	199.8	183.8	159.2	122.0	81.4	46.5	23.0	11.7	4.8	0.2
50°	138.4	134.0	115.4	91.6	64.9	39.0	21.3	11.5	5.2	1.2	0.2
52.5°	72.6	67.3	55.4	42.3	26.3	16.3	9.3	5.0	1.5	0.2	0.2
55°	10.7	9.8	8.0	6.5	5.8	4.5	2.7	1.2	0.2	0.2	0.3
57.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.2	0.2	0.2	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
67.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.5
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	23.3	23.3	23.3	23.3	23.3
2.5°	23.0	17.0	13.2	11.3	11.2
5°	20.8	12.2	8.0	6.2	5.8
7.5°	17.6	8.5	4.7	3.3	3.2
10°	14.5	5.8	2.8	2.3	2.2
12.5°	11.5	3.8	2.0	1.8	1.7
15°	8.8	2.5	1.5	1.3	1.3
17.5°	6.7	1.7	1.2	1.2	1.2
20°	5.0	1.2	0.8	1.0	1.0
22.5°	3.5	0.8	0.7	0.8	0.8
25°	2.5	0.7	0.7	0.8	0.8
27.5°	1.7	0.5	0.5	0.7	0.8
30°	1.0	0.3	0.5	0.7	0.8
32.5°	0.5	0.3	0.5	0.8	0.8
35°	0.3	0.5	0.7	0.8	1.0
37.5°	0.2	0.5	0.7	1.0	1.0
40°	0.2	0.5	0.7	1.0	1.2
42.5°	0.3	0.7	0.8	1.2	1.3
45°	0.3	0.7	1.0	1.3	1.5
47.5°	0.3	0.7	1.2	1.5	1.5
50°	0.5	0.8	1.2	1.5	1.7
52.5°	0.5	0.8	1.2	1.7	1.8
55°	0.5	0.8	1.3	1.7	1.8
57.5°	0.5	1.0	1.3	1.7	1.8
60°	0.5	0.8	1.3	1.7	1.8
62.5°	0.7	0.8	1.2	1.7	1.7
65°	0.7	0.8	1.2	1.7	1.7
67.5°	0.7	0.8	1.2	1.5	1.5
70°	0.7	0.8	1.0	1.3	1.3
72.5°	0.7	0.8	1.0	1.2	1.3
75°	0.5	0.7	0.8	1.0	1.2
77.5°	0.5	0.7	0.7	1.0	1.0
80°	0.5	0.5	0.5	0.7	0.7
82.5°	0.5	0.5	0.3	0.5	0.5
85°	0.5	0.3	0.3	0.3	0.3
87.5°	0.3	0.3	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)