

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: P1342557

Luminaire Tested: P3A09R409835DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342557
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: P3A09R409835DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

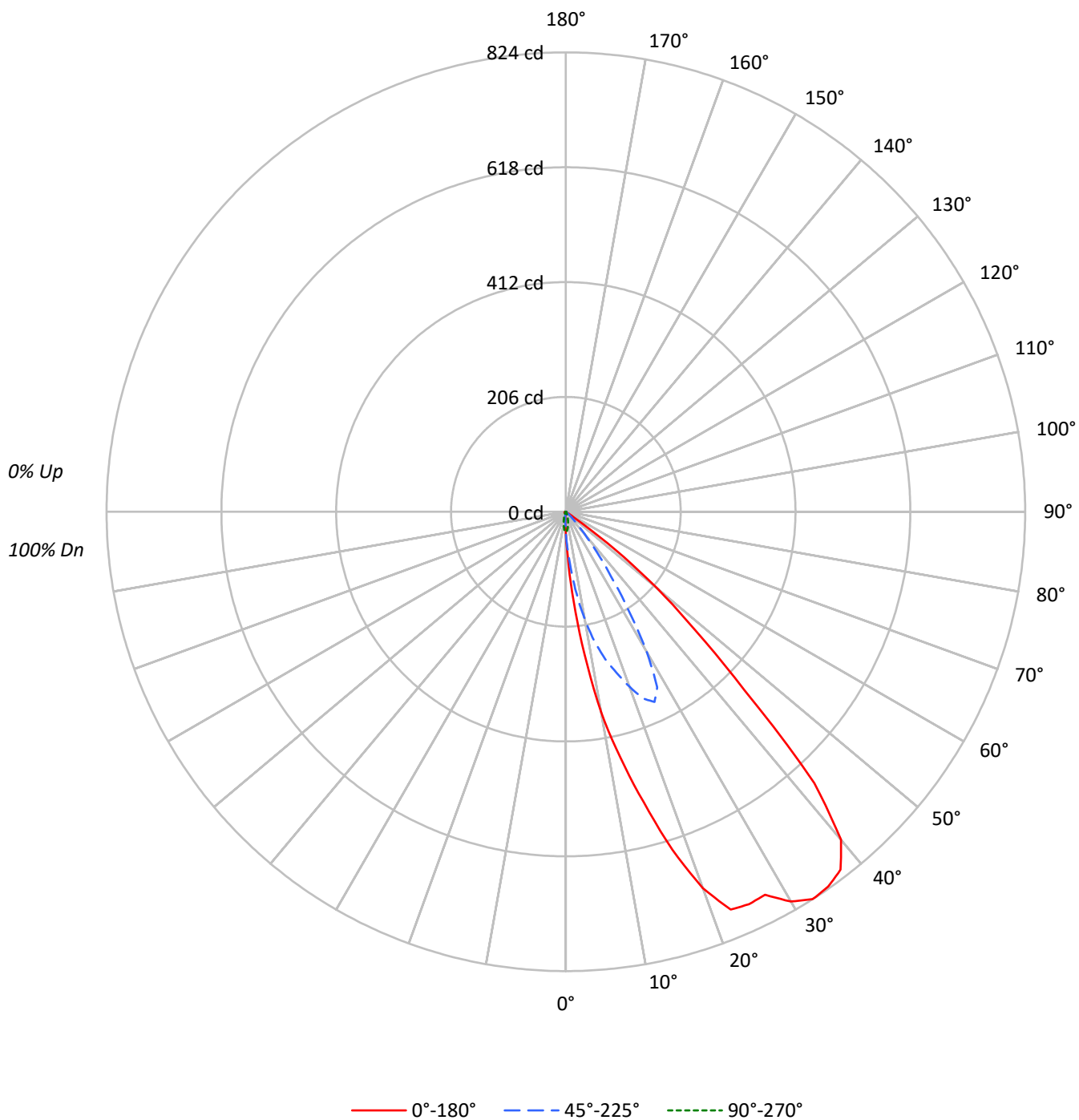
Lumens per Lamp: N/A
Luminaire Lumens: 304.1 lumens
Efficiency: N/A
Efficacy: 27.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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	62	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	51	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°	7894	7894	7894	7894	7894
5°	35571	22672	7066	2707	1981
10°	81584	43820	4988	980	735
15°	122430	62180	3087	522	477
20°	167641	77940	1797	303	350
25°	187922	91070	944	242	315
30°	204411	73505	380	203	329
35°	219695	37611	134	268	402
40°	219755	15000	86	286	515
45°	140325	5024	155	465	713
50°	72833	614	273	614	887
55°	6270	115	306	803	1070
60°	219	132	351	921	1228
65°	259	156	519	934	1349
70°	192	192	641	962	1346
75°	254	254	678	1101	1525
80°	379	379	1010	1010	1263
85°	0	755	2013	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 140325 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	2.3
10°-20°	41.1	13.5
20°-30°	90.1	29.6
30°-40°	102.7	33.8
40°-50°	54.2	17.8
50°-60°	6.4	2.1
60°-70°	1.2	0.4
70°-80°	1.0	0.3
80°-90°	0.4	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°	138.3	45.5
0°-40°	240.9	79.2
0°-60°	301.5	99.2
0°-90°	304.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	304.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	36	36	36	36	36	
5°	162	103	32	12	9	22
15°	539	274	14	2	2	159
25°	777	376	4	1	1	358
35°	821	140	0	1	2	509
45°	452	16	0	2	2	365
55°	16	0	1	2	3	51
65°	0	0	1	2	3	0
75°	0	0	1	1	2	0
85°	0	0	1	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°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
2.5°	80.2	80.2	79.9	77.6	77.3	77.1	73.0	71.9	67.1	63.7	48.6
5°	161.6	158.0	157.8	153.6	146.7	137.5	131.6	122.0	112.8	103.0	59.9
7.5°	257.4	260.5	252.1	247.7	232.3	221.2	204.3	189.4	168.5	149.0	69.1
10°	366.4	361.0	352.5	344.0	327.3	307.6	282.4	255.9	225.8	196.8	74.3
12.5°	451.4	444.5	439.4	427.8	411.4	385.9	355.9	320.4	280.6	238.7	74.0
15°	539.3	532.4	520.8	510.5	486.1	457.6	425.0	378.2	329.4	273.9	68.6
17.5°	635.9	626.9	614.1	598.4	574.8	543.2	501.8	444.8	375.6	302.7	58.8
20°	718.4	713.0	700.1	681.6	658.5	627.7	579.9	516.7	432.4	334.0	46.8
22.5°	772.3	767.5	758.7	742.5	725.1	692.2	648.5	579.1	480.0	362.5	35.5
25°	776.7	774.7	772.3	767.0	756.4	733.0	690.4	615.6	509.5	376.4	26.2
27.5°	774.4	773.6	773.1	770.3	763.4	740.2	696.6	621.0	505.6	354.8	19.3
30°	807.3	805.0	803.7	794.4	776.2	740.5	683.4	592.0	449.4	290.3	13.9
32.5°	824.0	823.5	822.2	813.2	787.5	741.0	661.4	521.8	356.4	209.7	9.5
35°	820.7	818.1	813.5	796.8	761.0	702.7	589.9	416.7	257.2	140.5	6.2
37.5°	809.3	803.4	794.4	764.4	716.8	637.2	478.4	306.8	175.0	91.0	3.6
40°	767.7	759.8	745.6	708.9	646.4	525.2	353.8	207.3	114.9	52.4	1.0
42.5°	660.1	649.8	639.5	598.4	527.0	391.6	232.8	128.2	65.5	28.8	0.3
45°	452.5	439.6	425.5	395.7	338.4	237.2	138.5	72.2	33.9	16.2	0.3
47.5°	314.2	308.3	283.7	245.6	188.3	125.6	71.7	35.5	18.0	7.5	0.3
50°	213.5	206.8	178.1	141.3	100.2	60.1	32.9	17.7	8.0	1.8	0.3
52.5°	112.0	103.8	85.6	65.3	40.6	25.2	14.4	7.7	2.3	0.3	0.3
55°	16.4	15.2	12.3	10.0	9.0	6.9	4.1	1.8	0.3	0.3	0.5
57.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.3	0.3	0.3	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
67.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5	0.8
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5
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°	36.0	36.0	36.0	36.0	36.0
2.5°	35.5	26.2	20.3	17.5	17.2
5°	32.1	18.8	12.3	9.5	9.0
7.5°	27.2	13.1	7.2	5.1	4.9
10°	22.4	9.0	4.4	3.6	3.3
12.5°	17.7	5.9	3.1	2.8	2.6
15°	13.6	3.9	2.3	2.1	2.1
17.5°	10.3	2.6	1.8	1.8	1.8
20°	7.7	1.8	1.3	1.5	1.5
22.5°	5.4	1.3	1.0	1.3	1.3
25°	3.9	1.0	1.0	1.3	1.3
27.5°	2.6	0.8	0.8	1.0	1.3
30°	1.5	0.5	0.8	1.0	1.3
32.5°	0.8	0.5	0.8	1.3	1.3
35°	0.5	0.8	1.0	1.3	1.5
37.5°	0.3	0.8	1.0	1.5	1.5
40°	0.3	0.8	1.0	1.5	1.8
42.5°	0.5	1.0	1.3	1.8	2.1
45°	0.5	1.0	1.5	2.1	2.3
47.5°	0.5	1.0	1.8	2.3	2.3
50°	0.8	1.3	1.8	2.3	2.6
52.5°	0.8	1.3	1.8	2.6	2.8
55°	0.8	1.3	2.1	2.6	2.8
57.5°	0.8	1.5	2.1	2.6	2.8
60°	0.8	1.3	2.1	2.6	2.8
62.5°	1.0	1.3	1.8	2.6	2.6
65°	1.0	1.3	1.8	2.6	2.6
67.5°	1.0	1.3	1.8	2.3	2.3
70°	1.0	1.3	1.5	2.1	2.1
72.5°	1.0	1.3	1.5	1.8	2.1
75°	0.8	1.0	1.3	1.5	1.8
77.5°	0.8	1.0	1.0	1.5	1.5
80°	0.8	0.8	0.8	1.0	1.0
82.5°	0.8	0.8	0.5	0.8	0.8
85°	0.8	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)