

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: P1335630

Luminaire Tested: P3A02R409027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335630
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: P3A02R409027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

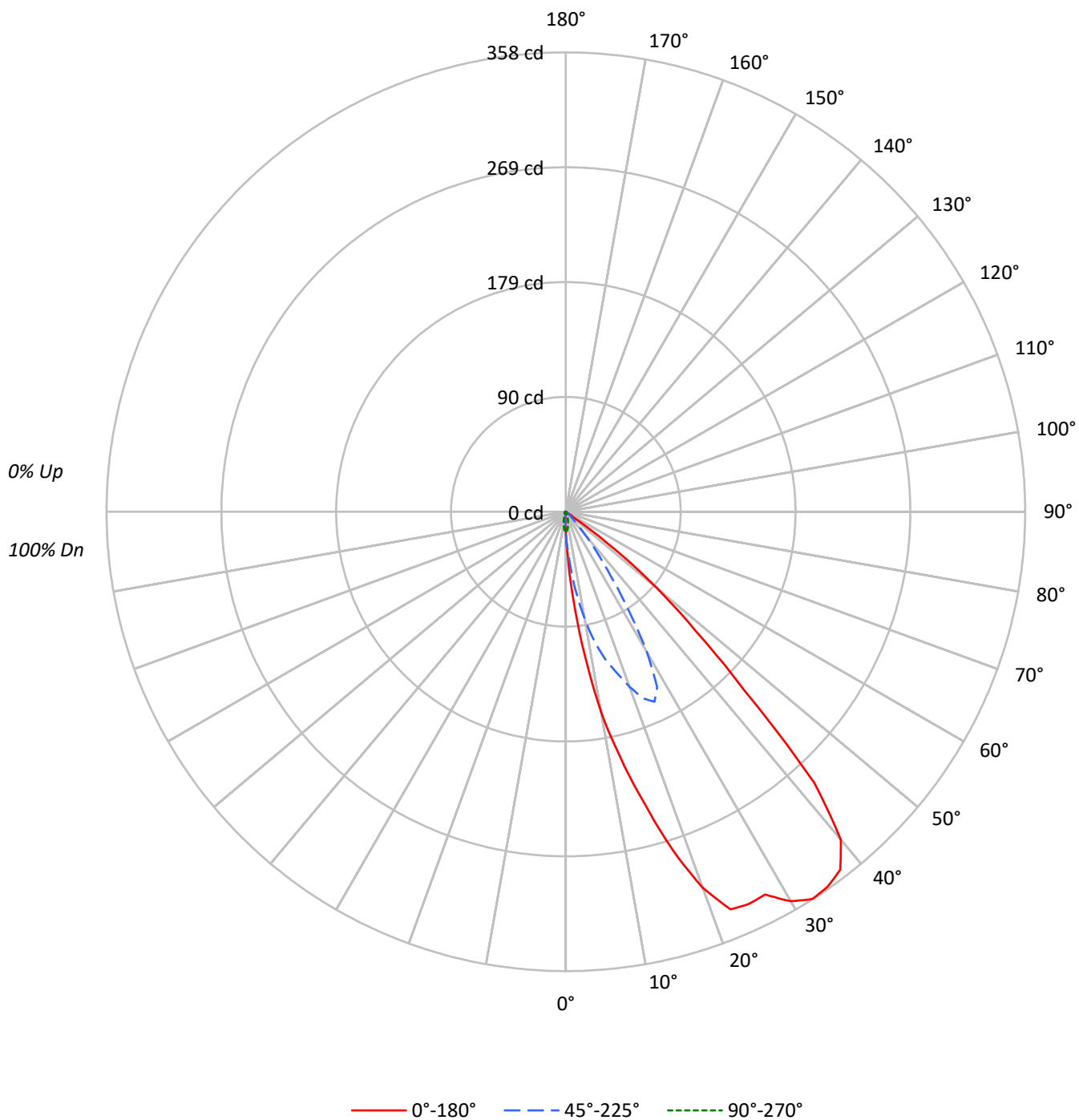
Lumens per Lamp: N/A
Luminaire Lumens: 131.9 lumens
Efficiency: N/A
Efficacy: 36.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	3421	3421	3421	3421	3421
5°	15452	9839	3060	1189	858
10°	35426	19038	2160	423	334
15°	53167	26992	1339	227	204
20°	72783	33836	770	140	163
25°	81610	39535	411	97	145
30°	88748	31929	177	76	152
35°	95379	16329	54	107	187
40°	95436	6527	29	115	229
45°	60937	2171	62	217	310
50°	31624	273	102	273	375
55°	2714	38	115	344	459
60°	88	44	132	395	526
65°	104	52	208	415	571
70°	64	64	256	449	577
75°	85	85	254	508	678
80°	126	126	379	379	505
85°	0	252	755	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 60937 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	2.3
10°-20°	17.9	13.5
20°-30°	39.1	29.7
30°-40°	44.6	33.8
40°-50°	23.5	17.8
50°-60°	2.8	2.1
60°-70°	0.5	0.4
70°-80°	0.4	0.3
80°-90°	0.2	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°	60.0	45.5
0°-40°	104.6	79.3
0°-60°	130.9	99.2
0°-90°	131.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	131.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	70	45	14	5	4	9
15°	234	119	6	1	1	69
25°	337	163	2	0	1	155
35°	356	61	0	0	1	221
45°	196	7	0	1	1	158
55°	7	0	0	1	1	22
65°	0	0	0	1	1	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°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
2.5°	34.8	34.8	34.7	33.7	33.6	33.5	31.7	31.2	29.1	27.7	21.1
5°	70.2	68.6	68.5	66.7	63.7	59.7	57.1	53.0	49.0	44.7	26.0
7.5°	111.8	113.1	109.4	107.5	100.9	96.1	88.7	82.2	73.2	64.7	30.0
10°	159.1	156.7	153.1	149.4	142.1	133.5	122.6	111.1	98.1	85.5	32.2
12.5°	196.0	193.0	190.8	185.8	178.6	167.6	154.5	139.1	121.8	103.6	32.1
15°	234.2	231.2	226.1	221.7	211.1	198.7	184.5	164.2	143.0	118.9	29.8
17.5°	276.1	272.2	266.6	259.8	249.6	235.8	217.9	193.1	163.1	131.4	25.5
20°	311.9	309.6	304.0	296.0	285.9	272.6	251.8	224.4	187.8	145.0	20.3
22.5°	335.4	333.2	329.4	322.4	314.8	300.6	281.6	251.5	208.4	157.4	15.4
25°	337.3	336.4	335.4	333.0	328.4	318.3	299.8	267.3	221.2	163.4	11.4
27.5°	336.3	335.9	335.7	334.5	331.5	321.4	302.5	269.7	219.6	154.1	8.4
30°	350.5	349.5	349.0	345.0	337.0	321.5	296.8	257.0	195.1	126.1	6.0
32.5°	357.8	357.6	357.0	353.1	341.9	321.8	287.2	226.6	154.7	91.0	4.1
35°	356.3	355.2	353.2	346.0	330.5	305.1	256.2	181.0	111.7	61.0	2.7
37.5°	351.4	348.9	345.0	331.9	311.3	276.7	207.7	133.2	76.0	39.5	1.6
40°	333.4	329.9	323.8	307.8	280.7	228.0	153.6	90.0	49.9	22.8	0.4
42.5°	286.6	282.1	277.7	259.8	228.8	170.0	101.1	55.7	28.4	12.5	0.1
45°	196.5	190.9	184.8	171.8	146.9	103.0	60.1	31.3	14.7	7.0	0.1
47.5°	136.4	133.9	123.2	106.7	81.8	54.6	31.1	15.4	7.8	3.2	0.1
50°	92.7	89.8	77.3	61.4	43.5	26.1	14.3	7.7	3.5	0.8	0.1
52.5°	48.6	45.1	37.2	28.3	17.6	10.9	6.2	3.3	1.0	0.1	0.1
55°	7.1	6.6	5.4	4.4	3.9	3.0	1.8	0.8	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
67.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
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°	15.6	15.6	15.6	15.6	15.6
2.5°	15.4	11.4	8.8	7.6	7.5
5°	13.9	8.1	5.4	4.1	3.9
7.5°	11.8	5.7	3.1	2.2	2.1
10°	9.7	3.9	1.9	1.6	1.5
12.5°	7.7	2.6	1.3	1.2	1.1
15°	5.9	1.7	1.0	0.9	0.9
17.5°	4.5	1.1	0.8	0.8	0.8
20°	3.3	0.8	0.6	0.7	0.7
22.5°	2.3	0.6	0.4	0.6	0.6
25°	1.7	0.4	0.4	0.6	0.6
27.5°	1.1	0.3	0.3	0.4	0.6
30°	0.7	0.2	0.3	0.4	0.6
32.5°	0.3	0.2	0.3	0.6	0.6
35°	0.2	0.3	0.4	0.6	0.7
37.5°	0.1	0.3	0.4	0.7	0.7
40°	0.1	0.3	0.4	0.7	0.8
42.5°	0.2	0.4	0.6	0.8	0.9
45°	0.2	0.4	0.7	0.9	1.0
47.5°	0.2	0.4	0.8	1.0	1.0
50°	0.3	0.6	0.8	1.0	1.1
52.5°	0.3	0.6	0.8	1.1	1.2
55°	0.3	0.6	0.9	1.1	1.2
57.5°	0.3	0.7	0.9	1.1	1.2
60°	0.3	0.6	0.9	1.1	1.2
62.5°	0.4	0.6	0.8	1.1	1.1
65°	0.4	0.6	0.8	1.1	1.1
67.5°	0.4	0.6	0.8	1.0	1.0
70°	0.4	0.6	0.7	0.9	0.9
72.5°	0.4	0.6	0.7	0.8	0.9
75°	0.3	0.4	0.6	0.7	0.8
77.5°	0.3	0.4	0.4	0.7	0.7
80°	0.3	0.3	0.3	0.4	0.4
82.5°	0.3	0.3	0.2	0.3	0.3
85°	0.3	0.2	0.2	0.2	0.2
87.5°	0.2	0.2	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)