

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: P1335673

Luminaire Tested: P3A02R409035DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335673
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: P3A02R409035DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

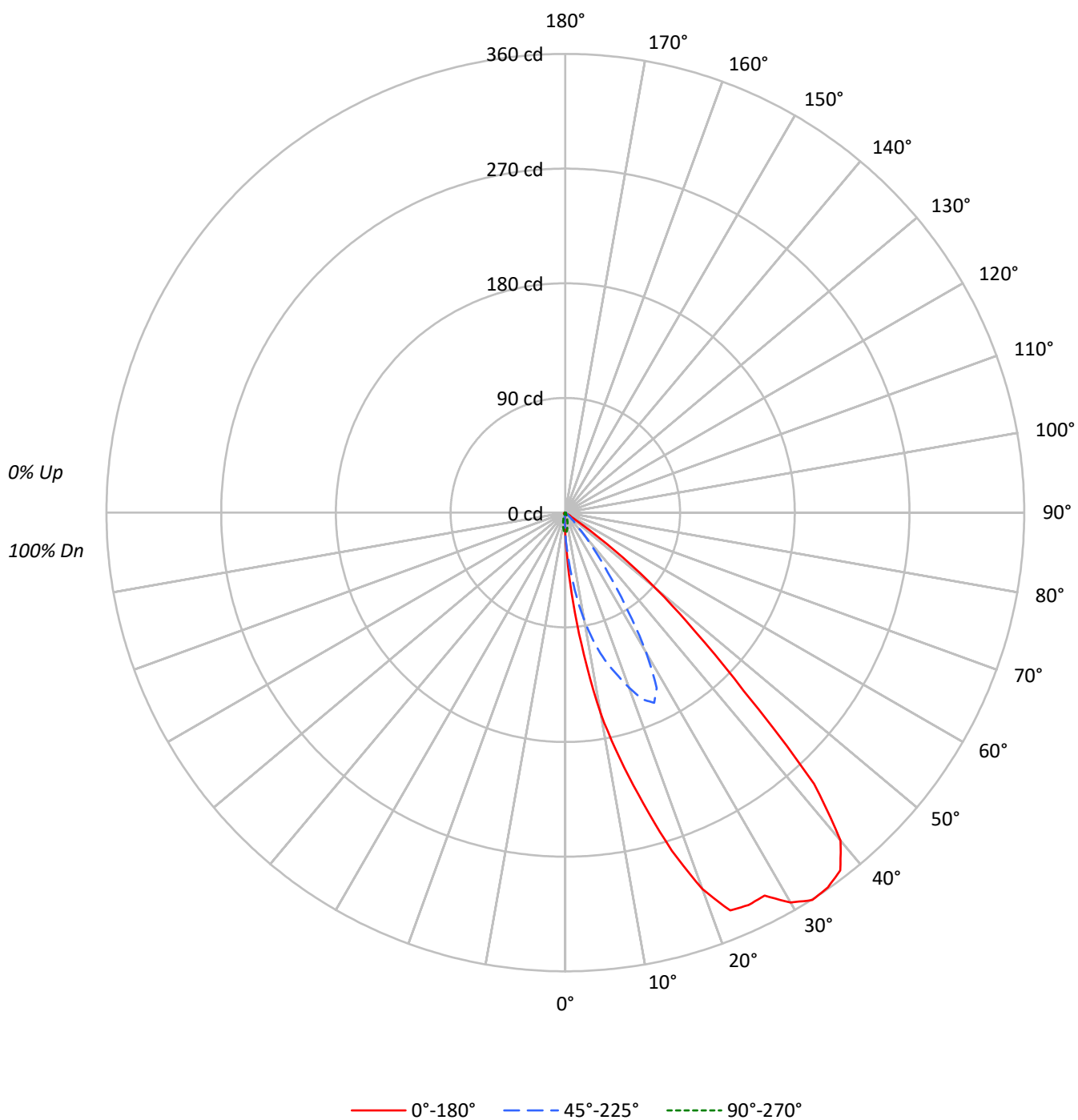
Lumens per Lamp: N/A
Luminaire Lumens: 132.9 lumens
Efficiency: N/A
Efficacy: 36.9 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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°	3443	3443	3443	3443	3443
5°	15562	9927	3104	1189	858
10°	35693	19171	2182	423	334
15°	53553	27197	1362	227	204
20°	73343	34093	793	140	163
25°	82214	39849	411	97	145
30°	89431	32157	177	76	152
35°	96102	16463	54	107	187
40°	96152	6555	29	115	229
45°	61402	2202	62	217	310
50°	31862	273	102	273	375
55°	2753	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: 61402 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	2.3
10°-20°	18.0	13.5
20°-30°	39.4	29.7
30°-40°	44.9	33.8
40°-50°	23.7	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°	60.5	45.5
0°-40°	105.4	79.3
0°-60°	131.9	99.2
0°-90°	132.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	132.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	71	45	14	5	4	10
15°	236	120	6	1	1	70
25°	340	165	2	0	1	157
35°	359	62	0	0	1	223
45°	198	7	0	1	1	160
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°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
2.5°	35.1	35.1	35.0	33.9	33.8	33.7	31.9	31.5	29.3	27.9	21.2
5°	70.7	69.1	69.0	67.2	64.2	60.1	57.6	53.4	49.3	45.1	26.2
7.5°	112.6	114.0	110.3	108.4	101.6	96.8	89.4	82.8	73.7	65.2	30.2
10°	160.3	157.9	154.2	150.5	143.2	134.6	123.5	112.0	98.8	86.1	32.5
12.5°	197.5	194.5	192.2	187.2	180.0	168.8	155.7	140.2	122.8	104.4	32.4
15°	235.9	232.9	227.9	223.4	212.7	200.2	185.9	165.5	144.1	119.8	30.0
17.5°	278.2	274.3	268.7	261.8	251.5	237.6	219.5	194.6	164.3	132.4	25.7
20°	314.3	311.9	306.3	298.2	288.1	274.6	253.7	226.1	189.2	146.1	20.5
22.5°	337.9	335.8	331.9	324.9	317.2	302.8	283.7	253.4	210.0	158.6	15.5
25°	339.8	338.9	337.9	335.5	330.9	320.7	302.0	269.3	222.9	164.7	11.5
27.5°	338.8	338.5	338.2	337.0	334.0	323.9	304.7	271.7	221.2	155.2	8.4
30°	353.2	352.2	351.6	347.6	339.6	324.0	299.0	259.0	196.6	127.0	6.1
32.5°	360.5	360.3	359.7	355.8	344.5	324.2	289.3	228.3	155.9	91.7	4.2
35°	359.0	357.9	355.9	348.6	333.0	307.4	258.1	182.3	112.5	61.5	2.7
37.5°	354.1	351.5	347.6	334.4	313.6	278.8	209.3	134.2	76.6	39.8	1.6
40°	335.9	332.4	326.2	310.1	282.8	229.8	154.8	90.7	50.2	22.9	0.4
42.5°	288.8	284.3	279.8	261.8	230.6	171.3	101.8	56.1	28.7	12.6	0.1
45°	198.0	192.3	186.1	173.1	148.0	103.8	60.6	31.6	14.8	7.1	0.1
47.5°	137.5	134.9	124.1	107.5	82.4	55.0	31.4	15.5	7.9	3.3	0.1
50°	93.4	90.5	77.9	61.8	43.8	26.3	14.4	7.8	3.5	0.8	0.1
52.5°	49.0	45.4	37.4	28.6	17.8	11.0	6.3	3.4	1.0	0.1	0.1
55°	7.2	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°	15.7	15.7	15.7	15.7	15.7
2.5°	15.5	11.5	8.9	7.6	7.5
5°	14.1	8.2	5.4	4.2	3.9
7.5°	11.9	5.7	3.1	2.2	2.1
10°	9.8	3.9	1.9	1.6	1.5
12.5°	7.8	2.6	1.3	1.2	1.1
15°	6.0	1.7	1.0	0.9	0.9
17.5°	4.5	1.1	0.8	0.8	0.8
20°	3.4	0.8	0.6	0.7	0.7
22.5°	2.4	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)