

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: P1335705

Luminaire Tested: P3A02R409050DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335705
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: P3A02R409050DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

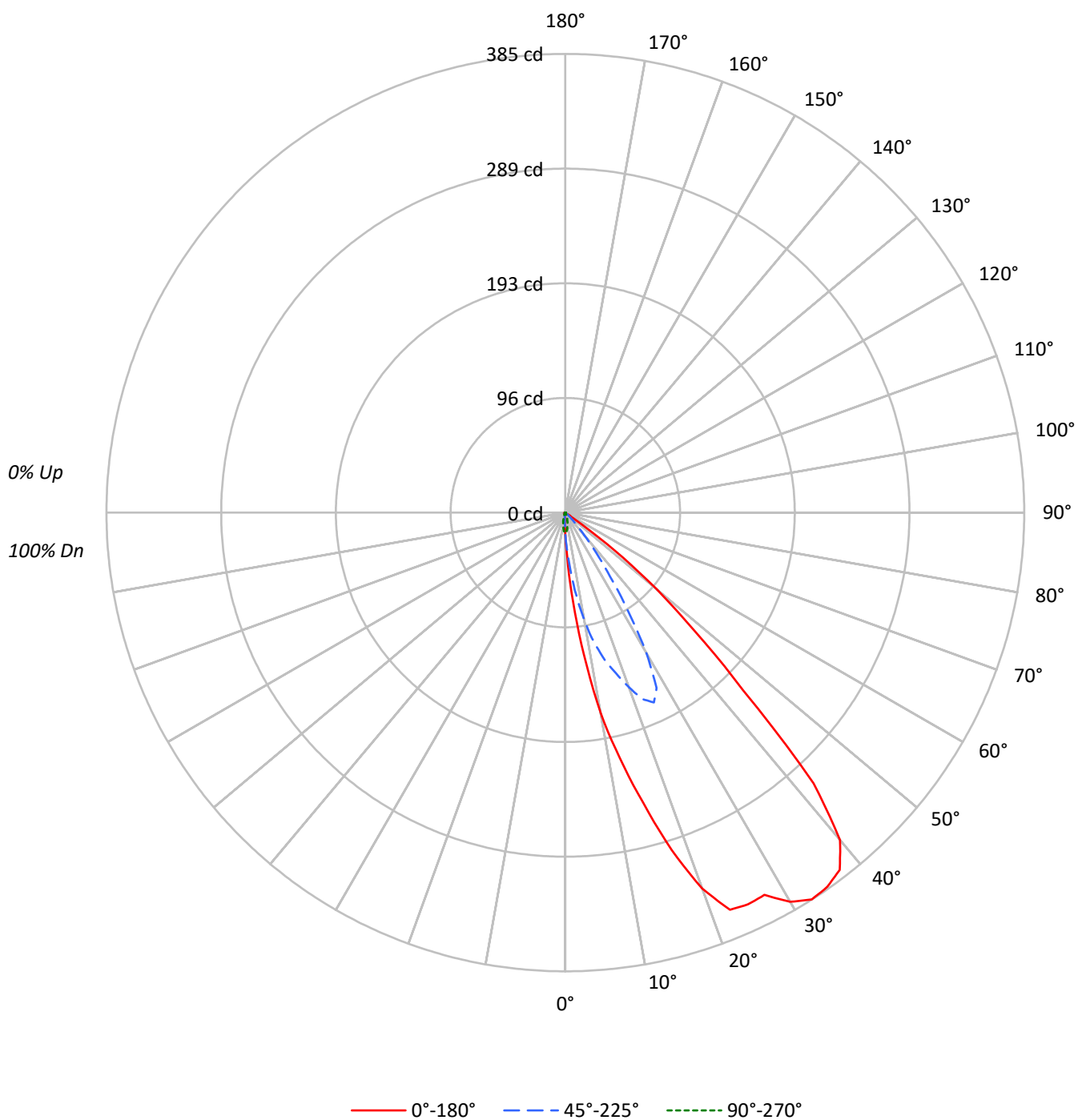
Lumens per Lamp: N/A
Luminaire Lumens: 142.0 lumens
Efficiency: N/A
Efficacy: 39.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	3684	3684	3684	3684	3684
5°	16619	10588	3302	1277	924
10°	38098	20463	2316	445	356
15°	57185	29035	1453	250	227
20°	78313	36403	840	140	163
25°	87779	42535	436	121	145
30°	95483	34334	177	101	152
35°	102606	17561	54	134	187
40°	102649	7013	29	143	229
45°	65526	2357	62	217	341
50°	34012	273	136	273	409
55°	2944	38	153	382	497
60°	88	44	175	439	570
65°	104	52	259	415	623
70°	64	64	321	449	641
75°	85	85	339	508	678
80°	126	126	505	505	631
85°	0	252	1006	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 65526 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.3	2.3
10°-20°	19.2	13.5
20°-30°	42.1	29.6
30°-40°	48.0	33.8
40°-50°	25.3	17.8
50°-60°	3.0	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°	64.6	45.5
0°-40°	112.5	79.3
0°-60°	140.8	99.2
0°-90°	142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	142.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	76	48	15	6	4	10
15°	252	128	6	1	1	74
25°	363	176	2	0	1	167
35°	383	66	0	0	1	238
45°	211	8	0	1	1	170
55°	8	0	0	1	1	24
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°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
2.5°	37.4	37.4	37.3	36.2	36.1	36.0	34.1	33.6	31.3	29.8	22.7
5°	75.5	73.8	73.7	71.8	68.5	64.2	61.4	57.0	52.7	48.1	28.0
7.5°	120.3	121.7	117.7	115.7	108.5	103.3	95.4	88.5	78.7	69.6	32.3
10°	171.1	168.6	164.7	160.7	152.9	143.7	131.9	119.5	105.5	91.9	34.7
12.5°	210.9	207.6	205.2	199.8	192.1	180.3	166.2	149.7	131.1	111.5	34.6
15°	251.9	248.7	243.3	238.5	227.1	213.7	198.5	176.7	153.9	127.9	32.0
17.5°	297.0	292.8	286.8	279.5	268.5	253.7	234.4	207.7	175.5	141.4	27.5
20°	335.6	333.0	327.0	318.4	307.6	293.2	270.9	241.4	202.0	156.0	21.8
22.5°	360.8	358.5	354.4	346.8	338.7	323.3	302.9	270.5	224.2	169.3	16.6
25°	362.8	361.8	360.8	358.2	353.3	342.4	322.5	287.6	238.0	175.8	12.2
27.5°	361.7	361.4	361.1	359.8	356.6	345.8	325.4	290.1	236.2	165.7	9.0
30°	377.1	376.0	375.4	371.1	362.6	345.9	319.2	276.5	209.9	135.6	6.5
32.5°	384.9	384.7	384.1	379.9	367.8	346.1	308.9	243.8	166.5	97.9	4.4
35°	383.3	382.1	380.0	372.2	355.5	328.2	275.6	194.7	120.1	65.6	2.9
37.5°	378.0	375.3	371.1	357.0	334.8	297.6	223.5	143.3	81.7	42.5	1.7
40°	358.6	354.9	348.3	331.1	302.0	245.3	165.3	96.9	53.6	24.5	0.5
42.5°	308.3	303.5	298.7	279.5	246.2	182.9	108.7	59.9	30.6	13.4	0.1
45°	211.3	205.3	198.7	184.8	158.1	110.8	64.7	33.7	15.8	7.6	0.1
47.5°	146.8	144.0	132.5	114.7	88.0	58.7	33.5	16.6	8.4	3.5	0.1
50°	99.7	96.6	83.2	66.0	46.8	28.1	15.4	8.3	3.7	0.8	0.1
52.5°	52.3	48.5	40.0	30.5	19.0	11.8	6.7	3.6	1.1	0.1	0.1
55°	7.7	7.1	5.8	4.7	4.2	3.2	1.9	0.8	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.4	0.4	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	0.4
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4
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	0.4
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°	16.8	16.8	16.8	16.8	16.8
2.5°	16.6	12.2	9.5	8.2	8.0
5°	15.0	8.8	5.8	4.4	4.2
7.5°	12.7	6.1	3.4	2.4	2.3
10°	10.4	4.2	2.0	1.7	1.6
12.5°	8.3	2.8	1.4	1.3	1.2
15°	6.4	1.8	1.1	1.0	1.0
17.5°	4.8	1.2	0.8	0.8	0.8
20°	3.6	0.8	0.6	0.7	0.7
22.5°	2.5	0.6	0.5	0.6	0.6
25°	1.8	0.5	0.5	0.6	0.6
27.5°	1.2	0.4	0.4	0.5	0.6
30°	0.7	0.2	0.4	0.5	0.6
32.5°	0.4	0.2	0.4	0.6	0.6
35°	0.2	0.4	0.5	0.6	0.7
37.5°	0.1	0.4	0.5	0.7	0.7
40°	0.1	0.4	0.5	0.7	0.8
42.5°	0.2	0.5	0.6	0.8	1.0
45°	0.2	0.5	0.7	1.0	1.1
47.5°	0.2	0.5	0.8	1.1	1.1
50°	0.4	0.6	0.8	1.1	1.2
52.5°	0.4	0.6	0.8	1.2	1.3
55°	0.4	0.6	1.0	1.2	1.3
57.5°	0.4	0.7	1.0	1.2	1.3
60°	0.4	0.6	1.0	1.2	1.3
62.5°	0.5	0.6	0.8	1.2	1.2
65°	0.5	0.6	0.8	1.2	1.2
67.5°	0.5	0.6	0.8	1.1	1.1
70°	0.5	0.6	0.7	1.0	1.0
72.5°	0.5	0.6	0.7	0.8	1.0
75°	0.4	0.5	0.6	0.7	0.8
77.5°	0.4	0.5	0.5	0.7	0.7
80°	0.4	0.4	0.4	0.5	0.5
82.5°	0.4	0.4	0.2	0.4	0.4
85°	0.4	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)