

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: P1335609

Luminaire Tested: P3A02R409024DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335609
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: P3A02R409024DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 2400K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

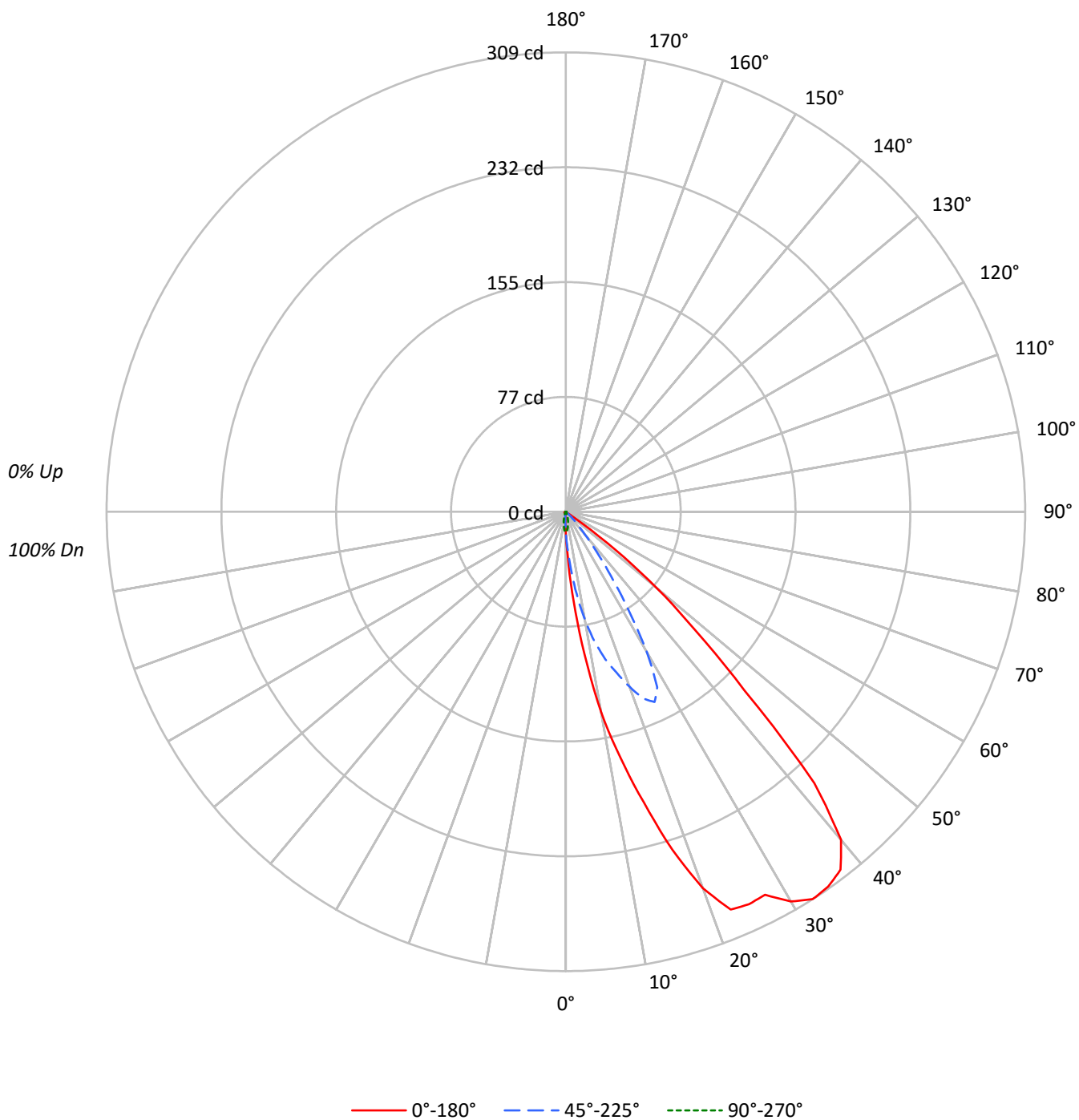
Lumens per Lamp: N/A
Luminaire Lumens: 114.1 lumens
Efficiency: N/A
Efficacy: 31.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	76	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°	2960	2960	2960	2960	2960
5°	13339	8497	2641	1013	748
10°	30594	16433	1870	356	289
15°	45903	23315	1158	204	182
20°	62865	29239	677	117	140
25°	70480	34163	339	97	121
30°	76645	27574	152	76	127
35°	82369	14107	54	107	161
40°	82412	5639	29	115	200
45°	52626	1892	62	186	279
50°	27325	239	102	239	341
55°	2370	38	115	306	421
60°	88	44	132	351	482
65°	104	52	208	363	519
70°	64	64	256	385	513
75°	85	85	254	424	593
80°	126	126	379	379	505
85°	0	252	755	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 52626 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	2.3
10°-20°	15.4	13.5
20°-30°	33.8	29.6
30°-40°	38.5	33.8
40°-50°	20.3	17.8
50°-60°	2.4	2.1
60°-70°	0.4	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°	51.9	45.5
0°-40°	90.4	79.2
0°-60°	113.1	99.1
0°-90°	114.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	114.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	61	39	12	5	3	8
15°	202	103	5	1	1	60
25°	291	141	1	0	0	134
35°	308	53	0	0	1	191
45°	170	6	0	1	1	137
55°	6	0	0	1	1	19
65°	0	0	0	1	1	0
75°	0	0	0	0	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°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
2.5°	30.1	30.1	30.0	29.1	29.0	28.9	27.4	27.0	25.1	23.9	18.2
5°	60.6	59.3	59.2	57.6	55.0	51.5	49.3	45.8	42.3	38.6	22.4
7.5°	96.5	97.7	94.5	92.9	87.1	83.0	76.6	71.0	63.2	55.9	25.9
10°	137.4	135.4	132.2	129.0	122.8	115.3	105.9	96.0	84.7	73.8	27.8
12.5°	169.3	166.7	164.8	160.4	154.3	144.7	133.4	120.1	105.2	89.5	27.7
15°	202.2	199.6	195.3	191.4	182.3	171.6	159.4	141.8	123.5	102.7	25.7
17.5°	238.5	235.1	230.3	224.4	215.5	203.7	188.2	166.8	140.9	113.5	22.1
20°	269.4	267.4	262.6	255.6	246.9	235.4	217.5	193.8	162.2	125.3	17.5
22.5°	289.6	287.8	284.5	278.5	271.9	259.6	243.2	217.2	180.0	136.0	13.3
25°	291.3	290.5	289.6	287.6	283.7	274.9	258.9	230.9	191.1	141.2	9.8
27.5°	290.4	290.1	289.9	288.9	286.3	277.6	261.2	232.9	189.6	133.1	7.2
30°	302.7	301.9	301.4	297.9	291.1	277.7	256.3	222.0	168.5	108.9	5.2
32.5°	309.0	308.8	308.3	305.0	295.3	277.9	248.0	195.7	133.6	78.6	3.6
35°	307.7	306.8	305.0	298.8	285.4	263.5	221.2	156.3	96.4	52.7	2.3
37.5°	303.5	301.3	297.9	286.6	268.8	238.9	179.4	115.0	65.6	34.1	1.3
40°	287.9	284.9	279.6	265.8	242.4	196.9	132.7	77.8	43.1	19.7	0.4
42.5°	247.5	243.7	239.8	224.4	197.6	146.8	87.3	48.1	24.6	10.8	0.1
45°	169.7	164.9	159.6	148.4	126.9	88.9	51.9	27.1	12.7	6.1	0.1
47.5°	117.8	115.6	106.4	92.1	70.6	47.1	26.9	13.3	6.7	2.8	0.1
50°	80.1	77.6	66.8	53.0	37.6	22.5	12.3	6.6	3.0	0.7	0.1
52.5°	42.0	38.9	32.1	24.5	15.2	9.4	5.4	2.9	0.9	0.1	0.1
55°	6.2	5.7	4.6	3.8	3.4	2.6	1.5	0.7	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°	13.5	13.5	13.5	13.5	13.5
2.5°	13.3	9.8	7.6	6.6	6.5
5°	12.0	7.0	4.6	3.6	3.4
7.5°	10.2	4.9	2.7	1.9	1.8
10°	8.4	3.4	1.6	1.3	1.3
12.5°	6.6	2.2	1.2	1.1	1.0
15°	5.1	1.4	0.9	0.8	0.8
17.5°	3.9	1.0	0.7	0.7	0.7
20°	2.9	0.7	0.5	0.6	0.6
22.5°	2.0	0.5	0.4	0.5	0.5
25°	1.4	0.4	0.4	0.5	0.5
27.5°	1.0	0.3	0.3	0.4	0.5
30°	0.6	0.2	0.3	0.4	0.5
32.5°	0.3	0.2	0.3	0.5	0.5
35°	0.2	0.3	0.4	0.5	0.6
37.5°	0.1	0.3	0.4	0.6	0.6
40°	0.1	0.3	0.4	0.6	0.7
42.5°	0.2	0.4	0.5	0.7	0.8
45°	0.2	0.4	0.6	0.8	0.9
47.5°	0.2	0.4	0.7	0.9	0.9
50°	0.3	0.5	0.7	0.9	1.0
52.5°	0.3	0.5	0.7	1.0	1.1
55°	0.3	0.5	0.8	1.0	1.1
57.5°	0.3	0.6	0.8	1.0	1.1
60°	0.3	0.5	0.8	1.0	1.1
62.5°	0.4	0.5	0.7	1.0	1.0
65°	0.4	0.5	0.7	1.0	1.0
67.5°	0.4	0.5	0.7	0.9	0.9
70°	0.4	0.5	0.6	0.8	0.8
72.5°	0.4	0.5	0.6	0.7	0.8
75°	0.3	0.4	0.5	0.6	0.7
77.5°	0.3	0.4	0.4	0.6	0.6
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)