

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: P1334457

Luminaire Tested: P3A02R209827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R209827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

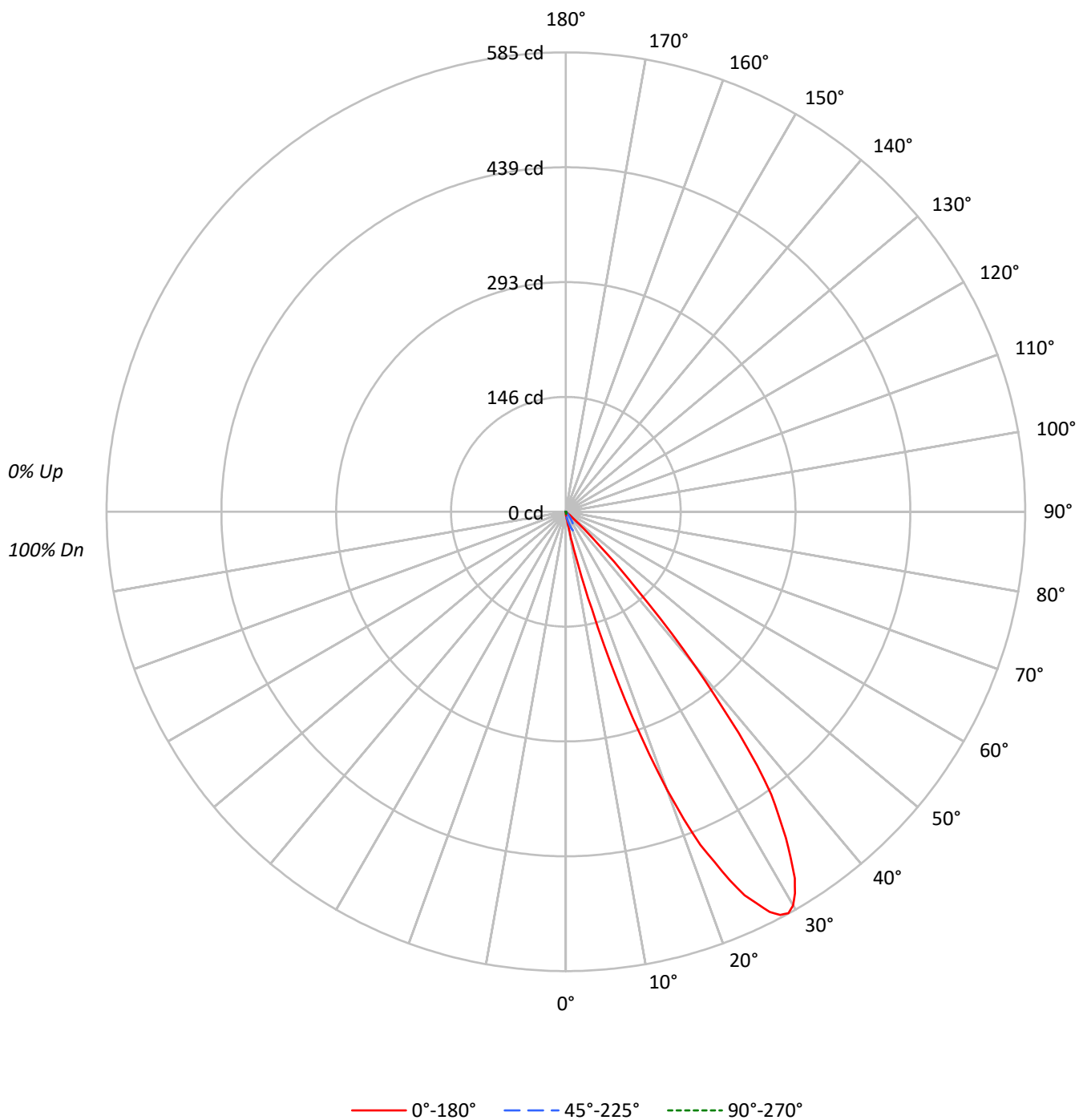
Lumens per Lamp: N/A
Luminaire Lumens: 82.0 lumens
Efficiency: N/A
Efficacy: 22.8 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.55 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	614	614	614	614	614
5°	1431	1057	594	352	308
10°	4498	1848	490	200	156
15°	29081	3428	363	68	23
20°	87764	5857	233	0	0
25°	130362	5928	145	0	0
30°	146580	4507	51	0	0
35°	126485	2677	27	0	0
40°	72822	916	0	0	0
45°	17769	372	31	0	31
50°	2115	102	34	34	68
55°	268	0	38	38	115
60°	44	0	88	88	175
65°	52	52	156	156	208
70°	64	64	192	192	256
75°	0	85	254	169	254
80°	0	126	253	126	253
85°	0	252	503	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 17893 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	7.6	9.3
20°-30°	33.1	40.4
30°-40°	33.4	40.7
40°-50°	6.7	8.2
50°-60°	0.3	0.4
60°-70°	0.2	0.3
70°-80°	0.2	0.2
80°-90°	0.1	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°	41.1	50.1
0°-40°	74.5	90.8
0°-60°	81.5	99.4
0°-90°	82.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	82.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	6	5	3	2	1	1
15°	128	15	2	0	0	50
25°	539	24	1	0	0	243
35°	472	10	0	0	0	281
45°	57	1	0	0	0	62
55°	1	0	0	0	0	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
2.5°	4.2	4.2	4.2	4.2	4.1	4.2	4.0	4.1	4.1	4.0	3.6
5°	6.5	6.6	6.5	6.5	6.5	6.5	6.4	6.2	6.1	6.1	4.8
7.5°	10.6	10.6	10.4	10.5	10.3	10.1	10.0	9.9	9.4	9.2	6.3
10°	20.2	20.6	20.2	20.2	18.8	18.7	17.9	16.6	15.5	14.9	8.3
12.5°	55.5	57.9	54.2	52.4	51.3	47.3	45.6	41.2	37.0	33.8	10.6
15°	128.1	134.0	126.5	127.0	120.7	109.3	99.2	90.6	80.4	70.2	15.1
17.5°	251.0	246.2	242.2	235.2	222.5	205.7	184.0	162.1	143.1	123.3	21.1
20°	376.1	371.9	362.6	347.5	331.3	306.4	280.6	247.7	215.7	185.8	25.1
21°	419.2	417.8	402.5	393.2	368.2	344.4	314.8	279.5	243.6	208.2	25.8
22°	457.7	449.2	441.0	427.2	402.4	376.5	343.5	306.4	267.4	228.0	25.9
23°	484.3	480.4	472.7	457.1	432.4	402.0	367.2	328.4	287.3	242.1	25.7
24°	513.8	508.9	497.5	479.4	454.5	424.4	384.7	346.2	301.5	253.9	25.1
25°	538.8	531.1	517.7	498.1	470.9	439.9	399.9	357.6	311.4	261.9	24.5
26°	555.0	550.8	533.6	512.3	483.2	451.2	410.4	366.4	317.8	265.5	23.5
27°	571.9	564.2	547.3	522.8	491.2	458.6	416.4	370.6	320.0	265.7	22.3
28°	581.5	573.2	554.1	528.3	496.4	462.7	419.8	372.0	319.6	263.4	20.9
29°	584.6	574.1	555.4	529.2	497.7	463.0	419.3	370.0	315.7	257.7	19.3
30°	578.9	568.2	550.5	525.0	493.7	459.2	414.4	363.6	308.7	249.6	17.8
31°	566.6	557.5	540.4	514.8	484.7	450.5	403.5	353.1	296.8	238.7	16.1
32°	550.3	541.4	524.5	501.4	470.8	436.3	388.6	336.8	282.8	222.5	14.4
33°	525.8	520.7	505.6	483.5	452.9	416.0	368.5	317.2	262.8	204.5	12.9
34°	501.0	494.6	484.0	459.8	426.9	390.1	342.3	290.2	238.5	184.3	11.5
35°	472.5	468.6	452.0	432.7	399.6	362.0	314.5	263.9	210.2	161.9	10.0
36°	444.8	438.8	420.0	399.5	367.4	326.7	279.8	232.3	185.7	140.8	8.6
37°	404.6	395.5	382.1	360.5	323.0	288.3	245.5	201.5	155.6	118.1	6.9
38°	357.4	353.1	334.5	312.7	281.7	248.8	206.4	169.1	128.3	98.6	5.3
39°	301.7	301.6	283.7	268.0	237.7	208.1	169.8	137.3	105.9	79.4	4.1
40°	254.4	245.6	234.6	214.9	191.6	166.5	133.0	107.4	82.2	64.0	3.2
42.5°	133.4	132.6	126.2	111.4	98.3	83.5	66.4	55.3	43.3	35.3	2.0
45°	57.3	57.7	53.2	51.0	45.9	39.7	33.6	28.0	24.0	19.4	1.2
47.5°	14.5	13.9	13.8	14.3	14.3	13.8	12.4	11.7	10.8	9.9	0.7
50°	6.2	6.1	6.0	6.0	5.6	5.4	5.0	4.5	4.2	3.7	0.3
52.5°	2.3	2.4	2.5	2.4	2.4	2.3	2.3	2.2	2.0	1.8	0.1
55°	0.7	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.0
57.5°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
62.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	2.8	2.8	2.8	2.8	2.8	2.8
2.5°	3.3	2.9	2.5	2.1	2.0	1.9
5°	3.6	2.7	2.0	1.6	1.5	1.4
7.5°	3.9	2.5	1.6	1.2	1.0	1.0
10°	4.1	2.2	1.3	0.9	0.7	0.7
12.5°	4.2	1.9	1.0	0.6	0.4	0.4
15°	4.1	1.6	0.7	0.3	0.1	0.1
17.5°	3.7	1.3	0.4	0.1	0.0	0.0
20°	3.2	1.0	0.3	0.0	0.0	0.0
21°	3.1	0.9	0.2	0.0	0.0	0.0
22°	2.8	0.8	0.1	0.0	0.0	0.0
23°	2.6	0.7	0.1	0.0	0.0	0.0
24°	2.4	0.7	0.1	0.0	0.0	0.0
25°	2.2	0.6	0.1	0.0	0.0	0.0
26°	2.1	0.5	0.1	0.0	0.0	0.0
27°	1.9	0.4	0.0	0.0	0.0	0.0
28°	1.7	0.4	0.0	0.0	0.0	0.0
29°	1.5	0.3	0.0	0.0	0.0	0.0
30°	1.3	0.2	0.0	0.0	0.0	0.0
31°	1.0	0.2	0.0	0.0	0.0	0.0
32°	0.9	0.1	0.0	0.0	0.0	0.0
33°	0.7	0.1	0.0	0.0	0.0	0.0
34°	0.7	0.1	0.0	0.0	0.0	0.0
35°	0.6	0.1	0.0	0.0	0.0	0.0
36°	0.4	0.1	0.0	0.0	0.0	0.0
37°	0.4	0.1	0.0	0.0	0.0	0.0
38°	0.3	0.1	0.0	0.0	0.0	0.0
39°	0.2	0.0	0.0	0.0	0.0	0.0
40°	0.2	0.0	0.0	0.0	0.0	0.0
42.5°	0.1	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.1	0.0	0.0	0.1	0.1
47.5°	0.0	0.1	0.0	0.0	0.1	0.1
50°	0.0	0.1	0.1	0.1	0.1	0.2
52.5°	0.0	0.1	0.1	0.1	0.2	0.2
55°	0.1	0.1	0.1	0.1	0.3	0.3
57.5°	0.1	0.1	0.1	0.2	0.3	0.4
60°	0.1	0.2	0.2	0.2	0.4	0.4
62.5°	0.1	0.2	0.3	0.3	0.4	0.4
65°	0.1	0.3	0.3	0.3	0.4	0.4
67.5°	0.2	0.3	0.3	0.3	0.4	0.4
70°	0.2	0.3	0.3	0.3	0.4	0.4
72.5°	0.2	0.3	0.2	0.3	0.3	0.4
75°	0.2	0.3	0.2	0.2	0.3	0.3
77.5°	0.1	0.2	0.2	0.1	0.2	0.2
80°	0.1	0.2	0.1	0.1	0.2	0.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.1	0.2	0.1	0.1	0.1	0.1
85°	0.1	0.2	0.1	0.1	0.1	0.1
87.5°	0.1	0.2	0.1	0.1	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)