

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: P1334505

Luminaire Tested: P3A02R209840DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334505
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: P3A02R209840DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

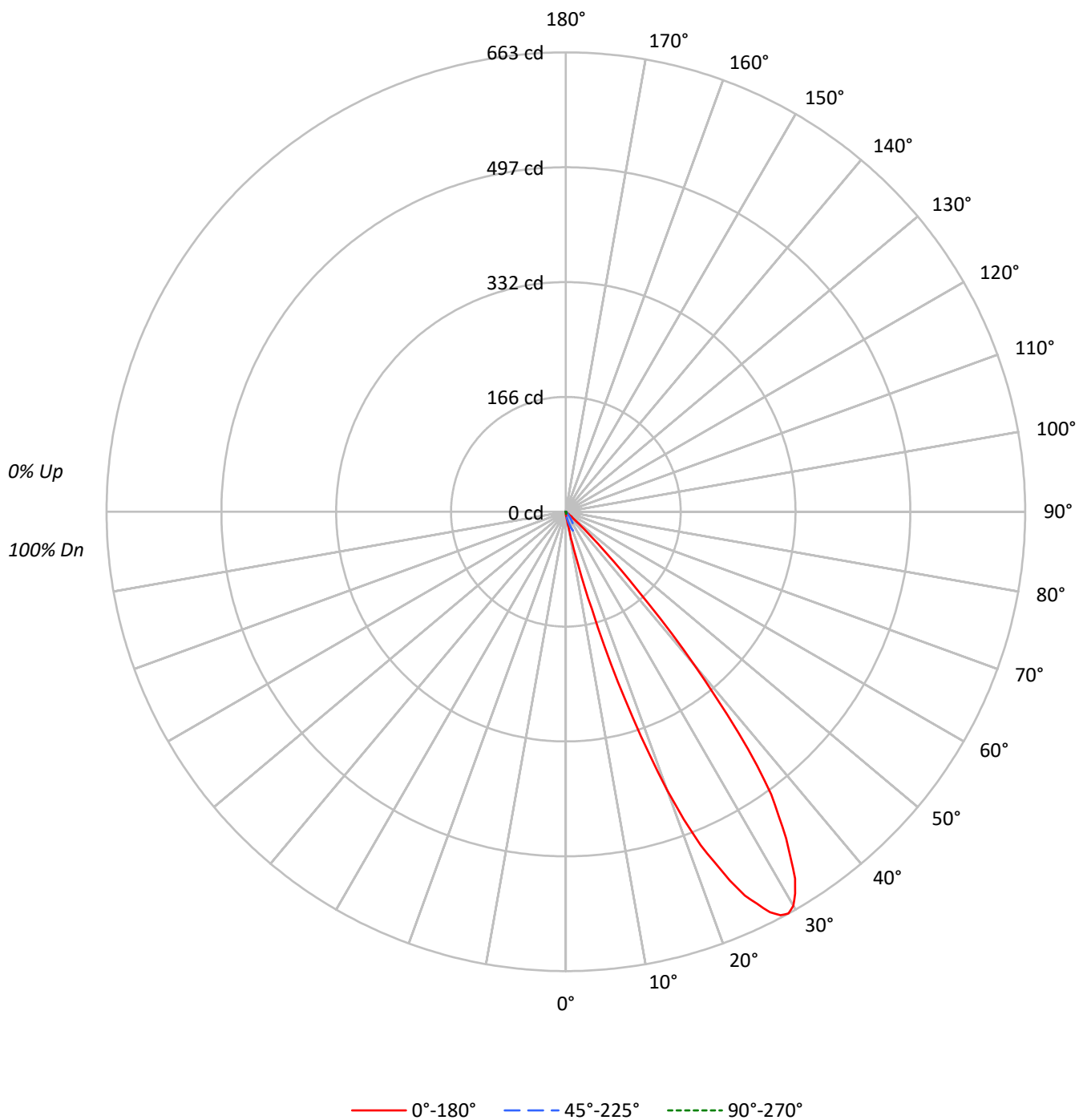
Lumens per Lamp: N/A
Luminaire Lumens: 93.0 lumens
Efficiency: N/A
Efficacy: 25.8 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	702	702	702	702	702
5°	1607	1211	660	418	352
10°	5099	2093	534	223	178
15°	32985	3882	409	68	23
20°	99549	6651	280	0	0
25°	147831	6726	169	0	0
30°	166253	5115	76	0	0
35°	143456	3052	54	0	0
40°	82612	1031	0	0	0
45°	20157	403	31	0	31
50°	2422	102	34	34	102
55°	306	0	76	76	115
60°	44	0	132	132	175
65°	52	52	156	156	259
70°	64	64	192	192	256
75°	0	85	254	254	254
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 20281 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	8.6	9.3
20°-30°	37.6	40.4
30°-40°	37.8	40.7
40°-50°	7.6	8.2
50°-60°	0.4	0.4
60°-70°	0.2	0.3
70°-80°	0.2	0.3
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°	46.6	50.1
0°-40°	84.4	90.8
0°-60°	92.4	99.3
0°-90°	93.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	93.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	7	6	3	2	2	1
15°	145	17	2	0	0	57
25°	611	28	1	0	0	276
35°	536	11	0	0	0	319
45°	65	1	0	0	0	71
55°	1	0	0	0	0	2
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°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
2.5°	4.8	4.8	4.7	4.7	4.6	4.7	4.6	4.6	4.6	4.6	4.1
5°	7.3	7.5	7.4	7.4	7.3	7.4	7.3	7.1	6.9	6.9	5.5
7.5°	12.1	12.0	11.8	11.9	11.6	11.5	11.3	11.2	10.7	10.5	7.2
10°	22.9	23.4	22.9	22.9	21.3	21.3	20.2	18.8	17.5	16.9	9.4
12.5°	62.9	65.6	61.4	59.4	58.2	53.7	51.7	46.7	41.9	38.3	12.0
15°	145.3	152.0	143.4	144.0	136.9	123.9	112.6	102.8	91.2	79.6	17.1
17.5°	284.7	279.3	274.6	266.8	252.4	233.3	208.7	183.8	162.3	139.8	23.9
20°	426.6	421.8	411.2	394.1	375.7	347.4	318.3	280.9	244.7	210.8	28.5
21°	475.4	473.8	456.5	446.0	417.6	390.6	357.0	317.0	276.2	236.1	29.3
22°	519.1	509.4	500.2	484.6	456.4	427.0	389.6	347.4	303.2	258.6	29.4
23°	549.3	544.9	536.1	518.5	490.5	456.0	416.5	372.4	325.8	274.5	29.1
24°	582.7	577.1	564.3	543.7	515.4	481.3	436.3	392.6	342.0	288.0	28.4
25°	611.0	602.3	587.2	565.0	534.1	498.9	453.6	405.6	353.2	297.0	27.8
26°	629.4	624.7	605.2	581.1	548.0	511.7	465.5	415.5	360.4	301.1	26.7
27°	648.6	639.9	620.7	593.0	557.1	520.1	472.2	420.3	363.0	301.3	25.3
28°	659.5	650.1	628.4	599.2	563.0	524.7	476.1	421.9	362.5	298.7	23.7
29°	663.0	651.1	629.9	600.2	564.5	525.1	475.5	419.7	358.0	292.3	21.9
30°	656.6	644.4	624.4	595.4	559.9	520.8	470.0	412.4	350.1	283.1	20.2
31°	642.6	632.3	612.9	583.9	549.8	511.0	457.6	400.5	336.6	270.8	18.2
32°	624.1	614.0	594.9	568.7	534.0	494.8	440.7	382.0	320.7	252.4	16.3
33°	596.3	590.5	573.4	548.3	513.7	471.8	417.9	359.8	298.1	231.9	14.6
34°	568.3	560.9	548.9	521.5	484.2	442.5	388.2	329.1	270.5	209.1	13.0
35°	535.9	531.5	512.7	490.7	453.3	410.6	356.6	299.4	238.4	183.6	11.4
36°	504.5	497.7	476.3	453.1	416.7	370.6	317.3	263.5	210.6	159.7	9.7
37°	458.9	448.6	433.3	408.9	366.3	327.0	278.4	228.5	176.4	133.9	7.8
38°	405.3	400.5	379.3	354.7	319.5	282.2	234.1	191.8	145.5	111.8	6.0
39°	342.1	342.0	321.8	304.0	269.6	236.0	192.6	155.7	120.1	90.0	4.6
40°	288.6	278.6	266.1	243.8	217.3	188.8	150.9	121.8	93.2	72.6	3.6
42.5°	151.3	150.4	143.1	126.3	111.5	94.8	75.3	62.8	49.1	40.0	2.3
45°	65.0	65.4	60.3	57.8	52.1	45.1	38.1	31.7	27.2	22.0	1.3
47.5°	16.5	15.8	15.6	16.2	16.2	15.7	14.1	13.2	12.2	11.2	0.8
50°	7.1	6.9	6.7	6.7	6.3	6.1	5.7	5.1	4.7	4.2	0.3
52.5°	2.6	2.7	2.8	2.7	2.7	2.6	2.6	2.5	2.3	2.0	0.2
55°	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.0
57.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	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°	3.2	3.2	3.2	3.2	3.2	3.2
2.5°	3.7	3.3	2.8	2.4	2.3	2.2
5°	4.1	3.0	2.3	1.9	1.7	1.6
7.5°	4.5	2.8	1.9	1.3	1.2	1.1
10°	4.6	2.4	1.5	1.0	0.8	0.8
12.5°	4.7	2.1	1.1	0.7	0.4	0.4
15°	4.6	1.8	0.8	0.3	0.1	0.1
17.5°	4.2	1.4	0.5	0.1	0.0	0.0
20°	3.6	1.2	0.3	0.0	0.0	0.0
21°	3.5	1.0	0.3	0.0	0.0	0.0
22°	3.2	0.9	0.2	0.0	0.0	0.0
23°	3.0	0.8	0.2	0.0	0.0	0.0
24°	2.7	0.8	0.1	0.0	0.0	0.0
25°	2.5	0.7	0.1	0.0	0.0	0.0
26°	2.4	0.6	0.1	0.0	0.0	0.0
27°	2.1	0.5	0.0	0.0	0.0	0.0
28°	1.9	0.4	0.0	0.0	0.0	0.0
29°	1.7	0.3	0.0	0.0	0.0	0.0
30°	1.4	0.3	0.0	0.0	0.0	0.0
31°	1.2	0.3	0.0	0.0	0.0	0.0
32°	1.0	0.2	0.0	0.0	0.0	0.0
33°	0.8	0.2	0.0	0.0	0.0	0.0
34°	0.8	0.2	0.0	0.0	0.0	0.0
35°	0.7	0.2	0.0	0.0	0.0	0.0
36°	0.5	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°	0.3	0.0	0.0	0.0	0.0	0.0
40°	0.3	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	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.3
52.5°	0.0	0.2	0.1	0.1	0.3	0.3
55°	0.1	0.2	0.1	0.2	0.3	0.3
57.5°	0.1	0.2	0.2	0.3	0.3	0.4
60°	0.2	0.3	0.3	0.3	0.4	0.4
62.5°	0.2	0.3	0.3	0.3	0.4	0.5
65°	0.2	0.3	0.3	0.3	0.4	0.5
67.5°	0.3	0.3	0.3	0.3	0.4	0.5
70°	0.3	0.3	0.3	0.3	0.4	0.4
72.5°	0.3	0.3	0.3	0.3	0.3	0.4
75°	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.2	0.3	0.3	0.2	0.3	0.3
80°	0.2	0.3	0.2	0.2	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.3	0.2	0.1	0.2	0.2
85°	0.2	0.3	0.2	0.1	0.1	0.1
87.5°	0.2	0.3	0.2	0.1	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)