

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: P1340009

Luminaire Tested: P3A09R159830DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R159830DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

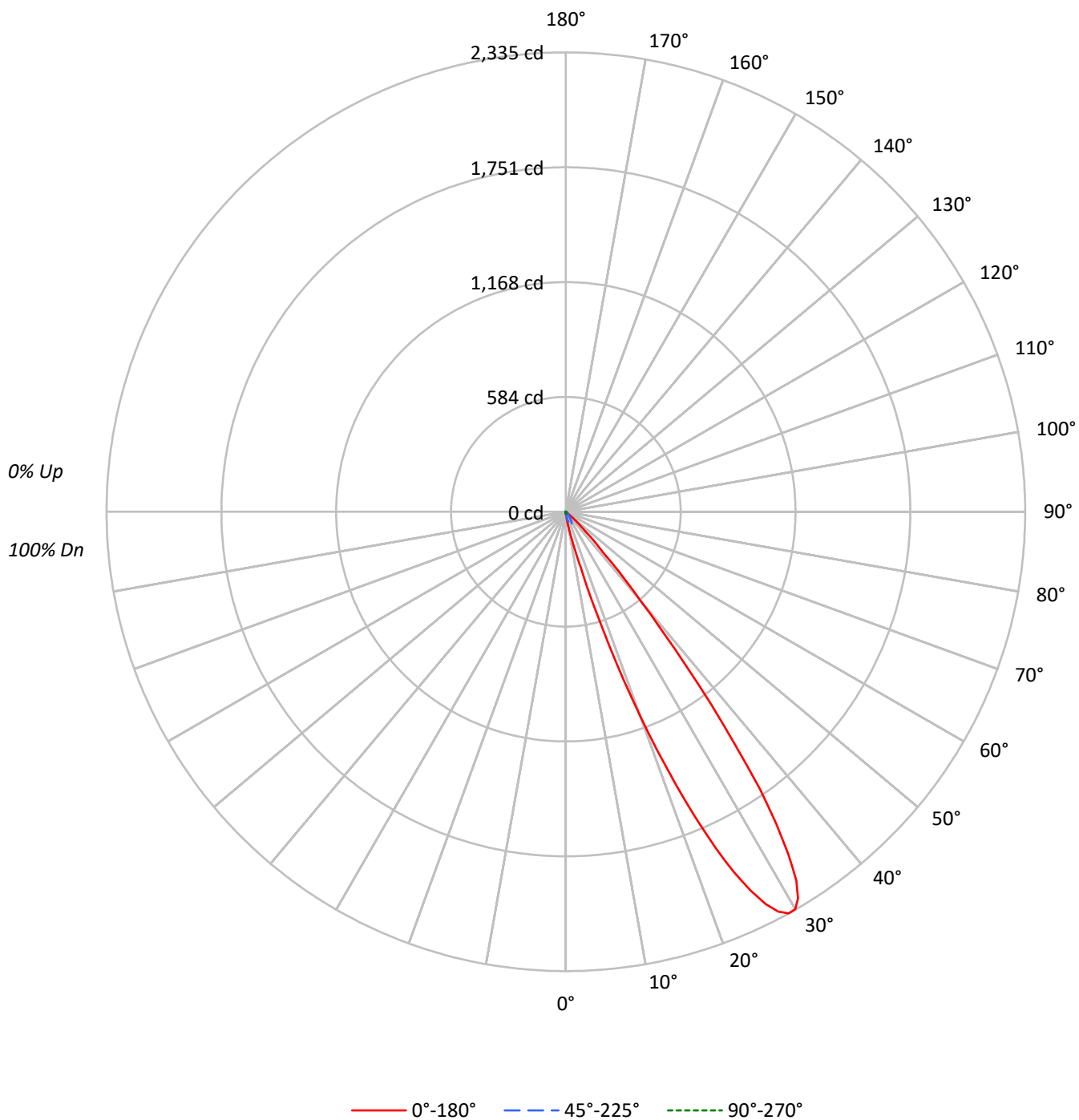
Lumens per Lamp: N/A
Luminaire Lumens: 254.9 lumens
Efficiency: N/A
Efficacy: 23.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1842	1842	1842	1842	1842
5°	3984	2950	1739	924	770
10°	17679	5589	1381	379	267
15°	66834	12895	953	159	114
20°	257062	18178	583	47	47
25°	488835	17033	290	0	0
30°	590521	13749	127	0	0
35°	460565	9369	54	0	0
40°	168058	4609	57	0	57
45°	43167	1395	62	0	155
50°	7266	171	68	68	239
55°	956	0	191	268	459
60°	88	88	307	439	658
65°	104	104	519	623	778
70°	128	128	641	641	769
75°	169	169	847	593	847
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43167 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	19.5	7.7
20°-30°	108.4	42.5
30°-40°	104.7	41.1
40°-50°	18.2	7.1
50°-60°	1.3	0.5
60°-70°	0.8	0.3
70°-80°	0.6	0.2
80°-90°	0.3	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°	129.1	50.6
0°-40°	233.8	91.7
0°-60°	253.3	99.4
0°-90°	254.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	254.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	13	8	4	4	4
15°	294	57	4	1	0	131
25°	2020	70	1	0	0	903
35°	1720	35	0	0	0	989
45°	139	4	0	0	0	149
55°	2	0	0	1	1	5
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	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°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
2.5°	12.4	11.9	12.2	12.2	12.2	12.2	12.2	11.7	11.7	11.9	10.7
5°	18.1	18.1	17.9	18.1	18.1	17.9	17.4	17.1	17.1	16.6	13.4
7.5°	36.2	35.7	35.7	35.2	32.7	32.0	31.5	30.3	28.0	27.5	17.4
10°	79.4	79.6	77.9	75.7	75.4	71.7	70.4	68.2	64.0	59.8	25.1
12.5°	144.1	140.9	136.7	136.9	129.7	127.3	121.5	115.3	108.9	102.2	41.2
15°	294.4	285.3	290.7	277.3	262.2	245.1	227.7	205.9	187.3	167.4	56.8
17.5°	620.1	629.1	613.9	556.6	521.4	480.0	421.7	365.4	317.3	278.6	69.5
20°	1101.6	1114.7	1063.4	1013.5	928.0	834.7	737.5	627.3	521.9	430.6	77.9
21°	1302.8	1294.8	1273.7	1193.9	1095.1	987.0	867.9	746.4	618.6	500.1	78.6
22°	1497.2	1501.0	1451.8	1368.2	1265.6	1145.7	1000.4	850.3	712.7	556.6	77.4
23°	1691.0	1702.9	1637.9	1559.5	1430.3	1295.1	1126.9	964.9	794.8	621.4	74.9
24°	1870.3	1862.1	1818.2	1719.5	1581.3	1423.1	1248.4	1052.0	862.2	676.7	72.9
25°	2020.4	2019.4	1950.4	1854.4	1696.4	1521.0	1328.6	1123.2	920.0	714.1	70.4
26°	2143.2	2123.1	2068.7	1951.7	1795.6	1610.6	1394.3	1175.0	952.5	733.0	68.0
27°	2237.9	2223.5	2150.6	2028.8	1865.8	1661.2	1436.5	1200.8	967.4	739.2	64.7
28°	2301.7	2286.0	2208.4	2082.9	1904.5	1692.9	1458.8	1211.7	967.4	733.2	61.8
29°	2334.7	2313.3	2235.9	2101.5	1913.5	1696.7	1453.3	1201.1	952.3	714.9	58.3
30°	2332.2	2305.6	2224.5	2084.6	1886.9	1666.2	1422.8	1162.6	918.0	687.6	54.3
31°	2292.0	2262.2	2171.7	2027.6	1832.1	1608.6	1365.3	1111.0	871.2	652.1	50.4
32°	2210.4	2172.7	2084.4	1940.8	1747.8	1522.5	1281.7	1031.4	801.0	600.3	46.1
33°	2077.4	2039.5	1944.7	1810.0	1633.7	1413.4	1170.8	945.8	721.1	538.5	42.7
34°	1911.0	1876.3	1794.6	1659.0	1489.8	1275.2	1043.3	827.5	638.2	477.2	38.9
35°	1720.5	1665.2	1591.2	1483.8	1318.9	1103.1	905.6	717.4	552.9	413.0	35.0
36°	1462.8	1472.7	1394.3	1262.8	1126.2	957.0	767.5	598.1	462.4	352.0	31.5
37°	1234.3	1218.7	1168.8	1067.1	948.1	780.1	643.2	507.0	388.9	297.7	27.8
38°	995.7	999.1	950.3	872.1	754.1	641.5	517.7	416.5	325.4	253.3	24.3
39°	779.4	776.6	763.5	691.1	584.2	510.2	419.5	345.3	271.1	213.6	20.6
40°	587.1	591.6	560.8	517.2	454.9	394.2	334.1	275.3	224.2	180.1	16.1
42.5°	285.5	292.5	272.1	260.9	233.4	209.6	176.9	144.4	122.8	106.2	7.2
45°	139.2	135.2	133.5	128.0	121.5	108.6	96.2	82.6	72.2	62.3	4.5
47.5°	71.2	69.2	69.2	67.0	64.7	60.5	54.3	49.9	44.9	38.7	1.7
50°	21.3	21.1	20.8	21.1	20.3	21.1	21.6	21.8	19.8	19.6	0.5
52.5°	8.4	8.7	8.4	9.2	9.2	8.9	9.2	8.9	8.7	7.7	0.0
55°	2.5	2.5	2.5	2.5	2.5	2.5	2.7	3.0	2.7	3.0	0.0
57.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	8.4	8.4	8.4	8.4	8.4	8.4
2.5°	9.9	8.7	7.2	6.0	5.5	5.2
5°	10.7	7.9	5.5	4.2	3.7	3.5
7.5°	11.4	7.2	4.2	3.0	2.2	2.0
10°	11.9	6.2	3.2	1.7	1.2	1.2
12.5°	11.9	5.0	2.2	1.0	0.7	0.7
15°	11.7	4.2	1.5	0.7	0.5	0.5
17.5°	11.4	3.2	1.0	0.5	0.2	0.5
20°	10.7	2.5	0.5	0.2	0.2	0.2
21°	10.4	2.2	0.5	0.2	0.2	0.2
22°	9.9	2.0	0.2	0.0	0.2	0.2
23°	9.4	1.5	0.2	0.0	0.0	0.0
24°	8.7	1.2	0.2	0.0	0.0	0.0
25°	8.2	1.2	0.2	0.0	0.0	0.0
26°	7.7	0.7	0.0	0.0	0.0	0.0
27°	6.9	0.5	0.0	0.0	0.0	0.0
28°	6.4	0.5	0.0	0.0	0.0	0.0
29°	5.7	0.5	0.0	0.0	0.0	0.0
30°	5.0	0.5	0.0	0.0	0.0	0.0
31°	4.0	0.2	0.0	0.0	0.0	0.0
32°	3.2	0.2	0.0	0.0	0.0	0.0
33°	2.2	0.2	0.0	0.0	0.0	0.0
34°	1.5	0.2	0.0	0.0	0.0	0.0
35°	1.2	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.2	0.0	0.0	0.0	0.2
37°	0.7	0.2	0.0	0.0	0.0	0.2
38°	0.5	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.5
45°	0.0	0.2	0.0	0.0	0.2	0.5
47.5°	0.0	0.2	0.0	0.0	0.5	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.5	0.7	1.0
55°	0.2	0.5	0.5	0.7	1.0	1.2
57.5°	0.2	0.7	0.7	1.0	1.2	1.2
60°	0.5	0.7	1.0	1.0	1.5	1.5
62.5°	0.5	1.0	1.0	1.0	1.5	1.5
65°	0.5	1.0	1.0	1.2	1.5	1.5
67.5°	0.5	1.0	1.0	1.0	1.2	1.5
70°	0.5	1.0	0.7	1.0	1.2	1.2
72.5°	0.5	1.0	0.7	0.7	1.0	1.2
75°	0.5	1.0	0.7	0.7	1.0	1.0
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)