

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: P1344039

Luminaire Tested: P3A13R209827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344039
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: P3A13R209827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

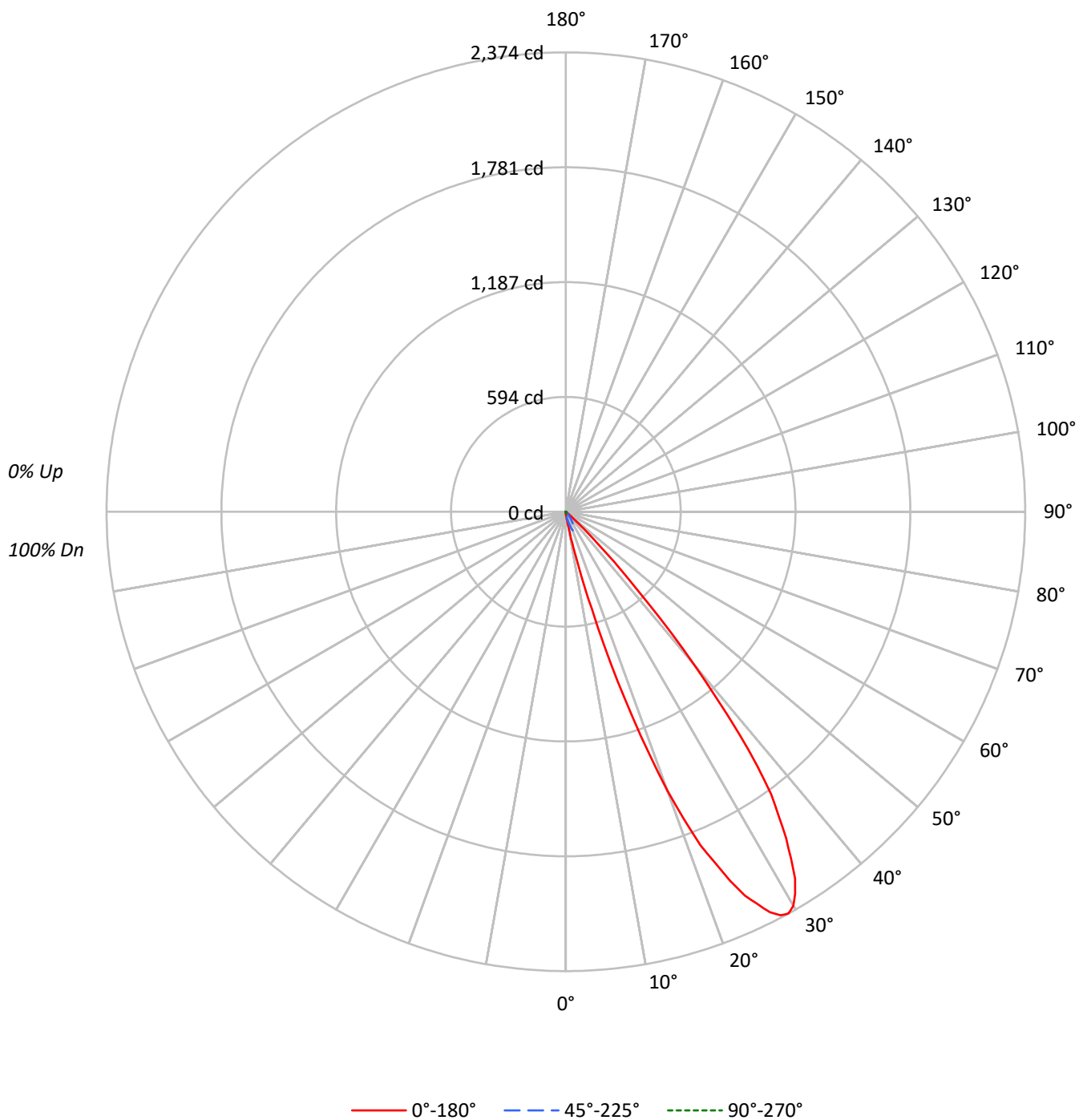
Lumens per Lamp: N/A
Luminaire Lumens: 333.0 lumens
Efficiency: N/A
Efficacy: 23.0 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	76	71	79	74	71	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°	2522	2522	2522	2522	2522
5°	5789	4314	2399	1453	1255
10°	18236	7526	1959	802	601
15°	118094	13916	1430	272	68
20°	356448	23825	980	0	0
25°	529361	24050	581	0	0
30°	595281	18281	228	0	0
35°	513621	10922	161	0	0
40°	295754	3721	0	0	0
45°	72132	1489	93	0	93
50°	8665	409	102	102	307
55°	1147	0	229	229	459
60°	132	0	395	395	658
65°	156	156	623	623	934
70°	192	192	769	769	962
75°	0	254	1017	763	1017
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 72597 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.5
10°-20°	30.9	9.3
20°-30°	134.5	40.4
30°-40°	135.5	40.7
40°-50°	27.2	8.2
50°-60°	1.4	0.4
60°-70°	0.9	0.3
70°-80°	0.8	0.2
80°-90°	0.4	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°	166.9	50.1
0°-40°	302.4	90.8
0°-60°	330.9	99.4
0°-90°	333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	333.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	26	20	11	7	6	4
15°	520	61	6	1	0	204
25°	2188	99	2	0	0	987
35°	1919	41	1	0	0	1142
45°	233	5	0	0	0	253
55°	3	0	1	1	1	6
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°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
2.5°	17.2	17.2	16.9	16.9	16.6	16.9	16.3	16.6	16.6	16.3	14.8
5°	26.3	26.9	26.6	26.6	26.3	26.6	26.0	25.4	24.8	24.8	19.6
7.5°	43.2	42.9	42.3	42.6	41.7	41.1	40.5	40.2	38.4	37.5	25.7
10°	81.9	83.7	82.2	81.9	76.4	76.1	72.5	67.4	62.8	60.4	33.8
12.5°	225.4	235.0	219.9	212.7	208.5	192.1	185.2	167.4	150.1	137.2	42.9
15°	520.2	544.1	513.6	515.7	490.3	443.8	403.0	368.0	326.6	284.9	61.3
17.5°	1019.3	1000.0	983.4	955.3	903.6	835.3	747.4	658.3	581.3	500.6	85.5
20°	1527.5	1510.2	1472.5	1411.2	1345.3	1244.1	1139.6	1005.7	876.1	754.7	102.1
21°	1702.4	1696.6	1634.7	1597.0	1495.4	1398.8	1278.2	1135.0	989.1	845.3	104.8
22°	1858.6	1824.1	1790.9	1735.0	1634.1	1529.0	1394.8	1244.1	1085.8	926.0	105.1
23°	1966.7	1951.0	1919.6	1856.5	1756.2	1632.6	1491.2	1333.5	1166.7	983.1	104.2
24°	2086.4	2066.4	2020.5	1946.8	1845.6	1723.5	1562.2	1405.7	1224.5	1031.1	101.8
25°	2187.9	2156.8	2102.4	2022.9	1912.4	1786.4	1624.1	1452.2	1264.6	1063.4	99.4
26°	2253.7	2236.8	2167.0	2080.6	1962.2	1832.3	1666.7	1487.9	1290.6	1078.2	95.5
27°	2322.3	2291.2	2222.6	2123.2	1994.8	1862.2	1690.9	1505.1	1299.7	1078.8	90.6
28°	2361.6	2327.8	2250.1	2145.6	2016.0	1878.8	1704.8	1510.5	1297.9	1069.5	84.9
29°	2374.0	2331.4	2255.6	2149.2	2021.1	1880.0	1702.7	1502.7	1281.9	1046.5	78.2
30°	2351.0	2307.5	2235.6	2132.0	2004.8	1864.9	1683.1	1476.7	1253.5	1013.6	72.2
31°	2300.9	2264.0	2194.5	2090.6	1968.5	1829.6	1638.6	1434.1	1205.1	969.5	65.3
32°	2234.7	2198.5	2130.2	2036.2	1912.1	1771.9	1577.9	1367.7	1148.3	903.6	58.3
33°	2135.3	2114.5	2053.1	1963.4	1839.2	1689.4	1496.4	1288.2	1067.4	830.5	52.3
34°	2034.7	2008.4	1965.5	1867.3	1733.8	1584.3	1390.0	1178.5	968.6	748.6	46.5
35°	1918.7	1903.0	1835.6	1757.1	1622.9	1470.1	1277.0	1071.9	853.5	657.4	40.8
36°	1806.3	1782.1	1705.4	1622.3	1492.1	1326.9	1136.2	943.5	754.1	571.9	34.7
37°	1643.2	1606.3	1551.6	1464.0	1311.8	1171.0	997.0	818.1	631.7	479.4	28.1
38°	1451.3	1434.1	1358.3	1270.1	1144.1	1010.6	838.4	686.7	521.1	400.3	21.4
39°	1225.1	1224.8	1152.2	1088.5	965.2	845.0	689.7	557.4	430.2	322.4	16.6
40°	1033.2	997.6	952.9	872.8	778.2	676.1	540.2	436.2	333.8	259.8	13.0
42.5°	541.7	538.7	512.4	452.3	399.4	339.3	269.8	224.8	175.8	143.2	8.2
45°	232.6	234.1	216.0	206.9	186.4	161.3	136.3	113.6	97.3	78.9	4.8
47.5°	58.9	56.5	55.9	58.0	58.0	56.2	50.5	47.4	43.8	40.2	2.7
50°	25.4	24.8	24.2	24.2	22.7	21.8	20.2	18.4	16.9	15.1	1.2
52.5°	9.4	9.7	10.0	9.7	9.7	9.4	9.4	9.1	8.2	7.3	0.6
55°	3.0	3.0	3.0	3.3	3.3	3.6	3.6	3.6	3.6	3.3	0.0
57.5°	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	1.2	1.2	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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°	11.5	11.5	11.5	11.5	11.5	11.5
2.5°	13.3	11.8	10.0	8.5	8.2	7.9
5°	14.8	10.9	8.2	6.6	6.0	5.7
7.5°	16.0	10.0	6.6	4.8	4.2	3.9
10°	16.6	8.8	5.4	3.6	2.7	2.7
12.5°	16.9	7.6	3.9	2.4	1.5	1.5
15°	16.6	6.3	3.0	1.2	0.3	0.3
17.5°	15.1	5.1	1.8	0.3	0.0	0.0
20°	13.0	4.2	1.2	0.0	0.0	0.0
21°	12.4	3.6	0.9	0.0	0.0	0.0
22°	11.5	3.3	0.6	0.0	0.0	0.0
23°	10.6	3.0	0.6	0.0	0.0	0.0
24°	9.7	2.7	0.3	0.0	0.0	0.0
25°	9.1	2.4	0.3	0.0	0.0	0.0
26°	8.5	2.1	0.3	0.0	0.0	0.0
27°	7.6	1.8	0.0	0.0	0.0	0.0
28°	6.9	1.5	0.0	0.0	0.0	0.0
29°	6.0	1.2	0.0	0.0	0.0	0.0
30°	5.1	0.9	0.0	0.0	0.0	0.0
31°	4.2	0.9	0.0	0.0	0.0	0.0
32°	3.6	0.6	0.0	0.0	0.0	0.0
33°	3.0	0.6	0.0	0.0	0.0	0.0
34°	2.7	0.6	0.0	0.0	0.0	0.0
35°	2.4	0.6	0.0	0.0	0.0	0.0
36°	1.8	0.3	0.0	0.0	0.0	0.0
37°	1.5	0.3	0.0	0.0	0.0	0.0
38°	1.2	0.3	0.0	0.0	0.0	0.0
39°	0.9	0.0	0.0	0.0	0.0	0.0
40°	0.9	0.0	0.0	0.0	0.0	0.0
42.5°	0.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.3	0.0	0.0	0.3	0.3
47.5°	0.0	0.3	0.0	0.0	0.3	0.6
50°	0.0	0.3	0.3	0.3	0.6	0.9
52.5°	0.0	0.6	0.3	0.3	0.9	0.9
55°	0.3	0.6	0.3	0.6	1.2	1.2
57.5°	0.3	0.6	0.6	0.9	1.2	1.5
60°	0.6	0.9	0.9	0.9	1.5	1.5
62.5°	0.6	0.9	1.2	1.2	1.5	1.8
65°	0.6	1.2	1.2	1.2	1.5	1.8
67.5°	0.9	1.2	1.2	1.2	1.5	1.8
70°	0.9	1.2	1.2	1.2	1.5	1.5
72.5°	0.9	1.2	0.9	1.2	1.2	1.5
75°	0.9	1.2	0.9	0.9	1.2	1.2
77.5°	0.6	0.9	0.9	0.6	0.9	0.9
80°	0.6	0.9	0.6	0.6	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.9	0.6	0.3	0.6	0.6
85°	0.6	0.9	0.6	0.3	0.3	0.3
87.5°	0.6	0.9	0.6	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)