

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: P1336431

Luminaire Tested: P3A05R159740DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336431
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: P3A05R159740DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

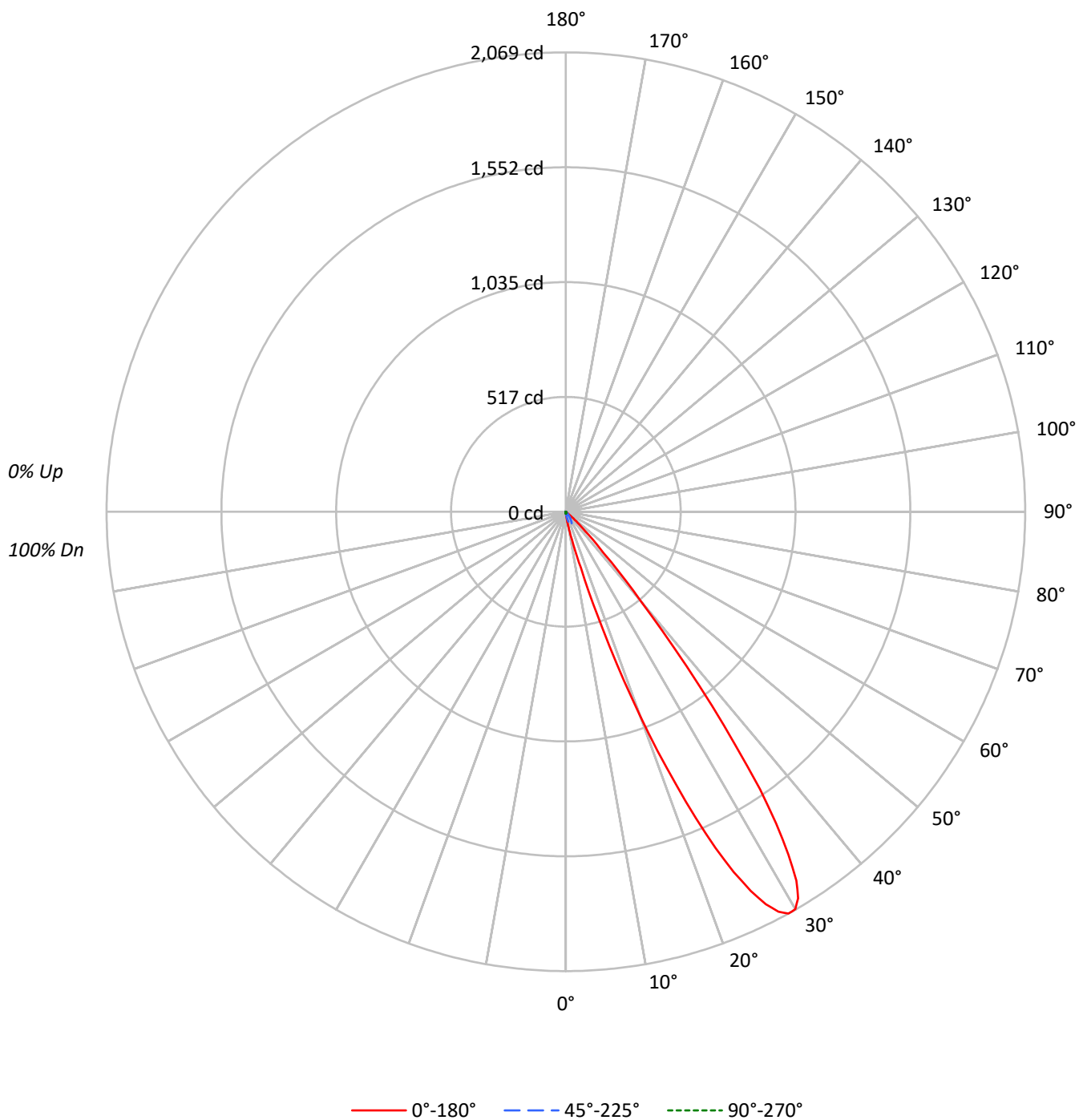
Lumens per Lamp: N/A
Luminaire Lumens: 226.0 lumens
Efficiency: N/A
Efficacy: 31.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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°	1645	1645	1645	1645	1645
5°	3522	2619	1541	814	682
10°	15653	4943	1225	334	245
15°	59251	11419	840	159	91
20°	227823	16101	513	47	47
25°	433235	15098	266	0	0
30°	523346	12179	101	0	0
35°	408177	8298	54	0	0
40°	148965	4093	57	0	57
45°	38237	1240	62	0	124
50°	6448	136	68	68	239
55°	841	0	153	268	421
60°	88	88	307	395	570
65°	104	104	467	571	675
70°	128	128	577	577	705
75°	169	169	763	593	763
80°	0	253	884	505	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 38237 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	17.3	7.7
20°-30°	96.0	42.5
30°-40°	92.8	41.1
40°-50°	16.1	7.1
50°-60°	1.2	0.5
60°-70°	0.7	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°	114.4	50.6
0°-40°	207.2	91.7
0°-60°	224.5	99.3
0°-90°	226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	226.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	16	12	7	4	3	3
15°	261	50	4	1	0	116
25°	1791	62	1	0	0	801
35°	1525	31	0	0	0	877
45°	123	4	0	0	0	132
55°	2	0	0	1	1	4
65°	0	0	1	1	1	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°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
2.5°	11.0	10.6	10.8	10.8	10.8	10.8	10.8	10.3	10.3	10.6	9.5
5°	16.0	16.0	15.8	16.0	16.0	15.8	15.4	15.2	15.2	14.7	11.9
7.5°	32.1	31.7	31.7	31.2	29.0	28.4	27.9	26.8	24.8	24.4	15.4
10°	70.3	70.6	69.0	67.1	66.8	63.5	62.4	60.5	56.7	53.0	22.2
12.5°	127.7	124.9	121.1	121.4	115.0	112.8	107.7	102.2	96.5	90.6	36.5
15°	261.0	252.8	257.7	245.8	232.4	217.2	201.8	182.5	166.0	148.4	50.3
17.5°	549.6	557.5	544.1	493.3	462.1	425.4	373.7	323.8	281.2	246.9	61.6
20°	976.3	988.0	942.5	898.3	822.4	739.8	653.6	556.0	462.5	381.6	69.0
21°	1154.6	1147.6	1128.9	1058.1	970.6	874.7	769.2	661.5	548.3	443.2	69.7
22°	1327.0	1330.3	1286.7	1212.6	1121.6	1015.4	886.6	753.6	631.6	493.3	68.6
23°	1498.7	1509.2	1451.6	1382.1	1267.6	1147.8	998.7	855.2	704.4	550.7	66.4
24°	1657.6	1650.3	1611.4	1523.9	1401.5	1261.2	1106.5	932.3	764.2	599.7	64.6
25°	1790.6	1789.7	1728.6	1643.5	1503.5	1348.1	1177.5	995.4	815.4	632.9	62.4
26°	1899.4	1881.6	1833.5	1729.7	1591.4	1427.4	1235.7	1041.4	844.2	649.6	60.2
27°	1983.4	1970.7	1906.0	1798.1	1653.6	1472.3	1273.1	1064.3	857.4	655.1	57.4
28°	2039.9	2026.1	1957.2	1846.0	1687.9	1500.4	1292.9	1073.9	857.4	649.9	54.7
29°	2069.1	2050.2	1981.6	1862.5	1695.9	1503.7	1288.0	1064.5	844.0	633.6	51.7
30°	2066.9	2043.4	1971.5	1847.5	1672.3	1476.7	1261.0	1030.4	813.6	609.4	48.1
31°	2031.3	2005.0	1924.7	1797.0	1623.7	1425.7	1210.0	984.7	772.1	578.0	44.6
32°	1959.0	1925.6	1847.3	1720.0	1549.0	1349.4	1135.9	914.1	709.9	532.0	40.9
33°	1841.2	1807.5	1723.6	1604.2	1447.9	1252.7	1037.7	838.3	639.1	477.3	37.8
34°	1693.7	1662.9	1590.6	1470.3	1320.4	1130.2	924.7	733.4	565.7	423.0	34.5
35°	1524.8	1475.8	1410.3	1315.1	1168.9	977.6	802.6	635.8	490.0	366.0	31.0
36°	1296.4	1305.2	1235.7	1119.2	998.1	848.1	680.2	530.0	409.8	312.0	27.9
37°	1093.9	1080.1	1035.9	945.8	840.2	691.4	570.0	449.4	344.7	263.8	24.6
38°	882.4	885.5	842.2	773.0	668.3	568.5	458.8	369.1	288.4	224.5	21.5
39°	690.7	688.3	676.7	612.5	517.7	452.2	371.8	306.0	240.3	189.3	18.2
40°	520.4	524.3	497.1	458.4	403.2	349.3	296.1	244.0	198.7	159.6	14.3
42.5°	253.0	259.2	241.2	231.3	206.9	185.8	156.7	127.9	108.8	94.1	6.4
45°	123.3	119.8	118.3	113.4	107.7	96.3	85.3	73.2	64.0	55.2	4.0
47.5°	63.1	61.3	61.3	59.4	57.4	53.6	48.1	44.2	39.8	34.3	1.5
50°	18.9	18.7	18.5	18.7	18.0	18.7	19.1	19.3	17.6	17.4	0.4
52.5°	7.5	7.7	7.5	8.1	8.1	7.9	8.1	7.9	7.7	6.8	0.0
55°	2.2	2.2	2.2	2.2	2.2	2.2	2.4	2.6	2.4	2.6	0.0
57.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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°	7.5	7.5	7.5	7.5	7.5	7.5
2.5°	8.8	7.7	6.4	5.3	4.8	4.6
5°	9.5	7.0	4.8	3.7	3.3	3.1
7.5°	10.1	6.4	3.7	2.6	2.0	1.8
10°	10.6	5.5	2.9	1.5	1.1	1.1
12.5°	10.6	4.4	2.0	0.9	0.7	0.7
15°	10.3	3.7	1.3	0.7	0.4	0.4
17.5°	10.1	2.9	0.9	0.4	0.2	0.4
20°	9.5	2.2	0.4	0.2	0.2	0.2
21°	9.2	2.0	0.4	0.2	0.2	0.2
22°	8.8	1.8	0.2	0.0	0.2	0.2
23°	8.4	1.3	0.2	0.0	0.0	0.0
24°	7.7	1.1	0.2	0.0	0.0	0.0
25°	7.3	1.1	0.2	0.0	0.0	0.0
26°	6.8	0.7	0.0	0.0	0.0	0.0
27°	6.2	0.4	0.0	0.0	0.0	0.0
28°	5.7	0.4	0.0	0.0	0.0	0.0
29°	5.1	0.4	0.0	0.0	0.0	0.0
30°	4.4	0.4	0.0	0.0	0.0	0.0
31°	3.5	0.2	0.0	0.0	0.0	0.0
32°	2.9	0.2	0.0	0.0	0.0	0.0
33°	2.0	0.2	0.0	0.0	0.0	0.0
34°	1.3	0.2	0.0	0.0	0.0	0.0
35°	1.1	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°	0.4	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	0.4
45°	0.0	0.2	0.0	0.0	0.2	0.4
47.5°	0.0	0.2	0.0	0.0	0.4	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.7
52.5°	0.0	0.4	0.2	0.4	0.7	0.9
55°	0.2	0.4	0.4	0.7	0.9	1.1
57.5°	0.2	0.7	0.7	0.9	1.1	1.1
60°	0.4	0.7	0.9	0.9	1.3	1.3
62.5°	0.4	0.9	0.9	0.9	1.3	1.3
65°	0.4	0.9	0.9	1.1	1.3	1.3
67.5°	0.4	0.9	0.9	0.9	1.1	1.3
70°	0.4	0.9	0.7	0.9	1.1	1.1
72.5°	0.4	0.9	0.7	0.7	0.9	1.1
75°	0.4	0.9	0.7	0.7	0.9	0.9
77.5°	0.4	0.7	0.7	0.4	0.7	0.7
80°	0.4	0.7	0.4	0.4	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.7	0.4	0.2	0.4	0.4
85°	0.4	0.7	0.4	0.2	0.2	0.2
87.5°	0.4	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)