

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: P1340525

Luminaire Tested: P3A09R209835DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340525
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: P3A09R209835DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

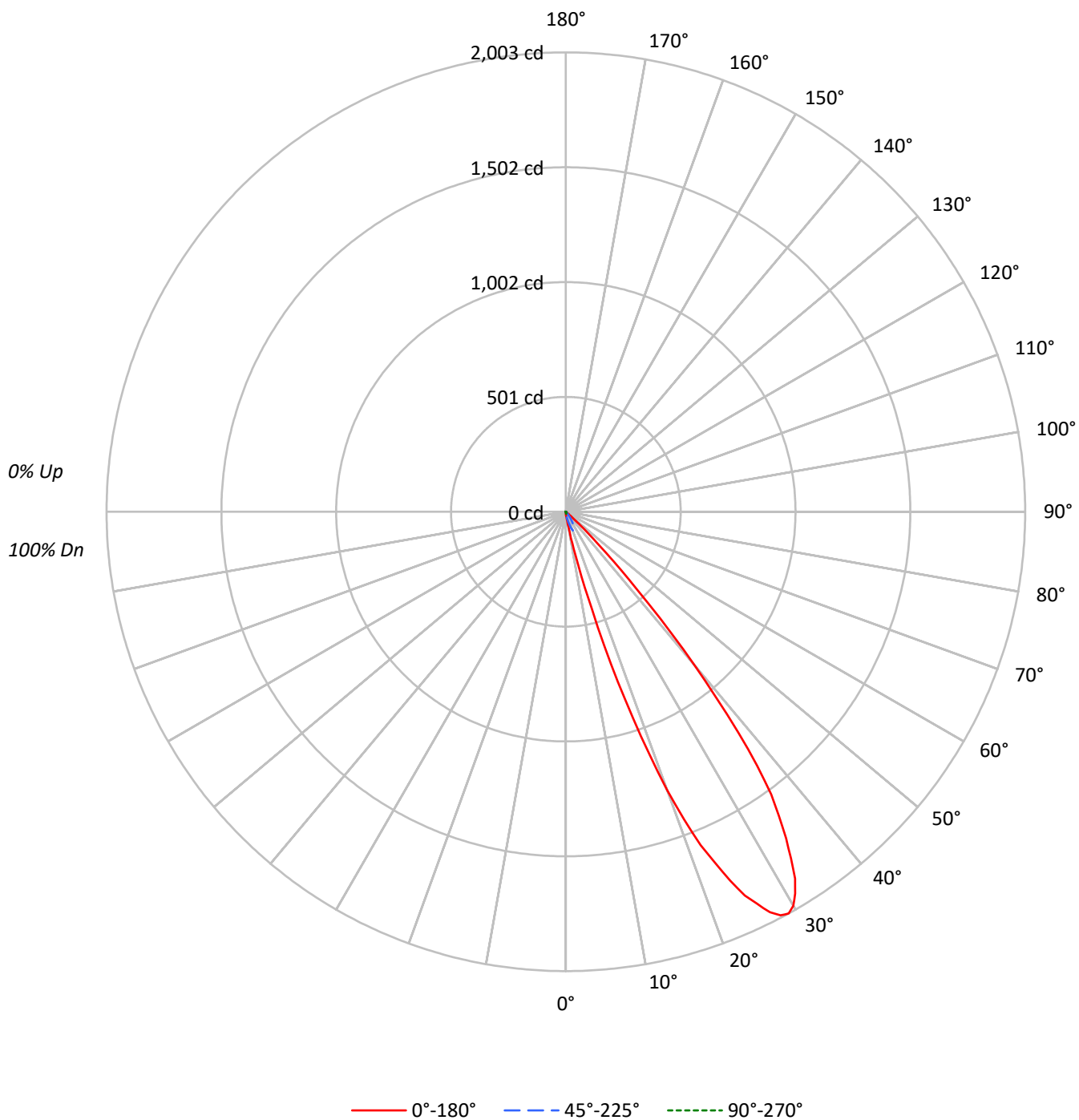
Lumens per Lamp: N/A
Luminaire Lumens: 281.1 lumens
Efficiency: N/A
Efficacy: 25.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
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	75	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°	2127	2127	2127	2127	2127
5°	4887	3654	2025	1233	1057
10°	15386	6368	1648	690	512
15°	99660	11759	1226	227	68
20°	300769	20115	840	0	0
25°	446687	20300	484	0	0
30°	502330	15420	203	0	0
35°	433421	9209	134	0	0
40°	249582	3149	0	0	0
45°	60875	1271	93	0	93
50°	7300	341	102	102	273
55°	956	0	191	191	382
60°	132	0	351	351	570
65°	156	156	519	519	778
70°	192	192	641	641	833
75°	0	254	847	678	847
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 61278 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	26.0	9.3
20°-30°	113.5	40.4
30°-40°	114.3	40.7
40°-50°	22.9	8.2
50°-60°	1.2	0.4
60°-70°	0.8	0.3
70°-80°	0.7	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°	140.8	50.1
0°-40°	255.2	90.8
0°-60°	279.3	99.4
0°-90°	281.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	281.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	22	17	9	6	5	3
15°	439	52	5	1	0	172
25°	1846	84	2	0	0	832
35°	1619	34	0	0	0	963
45°	196	4	0	0	0	214
55°	2	0	0	0	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°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
2.5°	14.5	14.5	14.3	14.3	14.0	14.3	13.8	14.0	14.0	13.8	12.5
5°	22.2	22.7	22.4	22.4	22.2	22.4	21.9	21.4	20.9	20.9	16.6
7.5°	36.5	36.2	35.7	35.9	35.2	34.7	34.2	33.9	32.4	31.6	21.7
10°	69.1	70.6	69.3	69.1	64.5	64.2	61.2	56.9	53.0	51.0	28.6
12.5°	190.2	198.3	185.6	179.5	175.9	162.1	156.3	141.2	126.7	115.7	36.2
15°	439.0	459.1	433.4	435.2	413.8	374.5	340.1	310.5	275.6	240.4	51.8
17.5°	860.1	843.8	829.8	806.1	762.5	704.9	630.7	555.5	490.5	422.4	72.1
20°	1288.9	1274.4	1242.5	1190.8	1135.2	1049.8	961.6	848.7	739.3	636.8	86.2
21°	1436.6	1431.7	1379.4	1347.6	1261.9	1180.3	1078.6	957.8	834.7	713.3	88.5
22°	1568.4	1539.3	1511.2	1464.1	1378.9	1290.2	1177.0	1049.8	916.2	781.4	88.7
23°	1659.6	1646.4	1619.8	1566.6	1481.9	1377.7	1258.4	1125.3	984.6	829.6	88.0
24°	1760.6	1743.7	1705.0	1642.8	1557.4	1454.4	1318.3	1186.2	1033.2	870.1	85.9
25°	1846.2	1820.0	1774.1	1707.0	1613.7	1507.4	1370.5	1225.5	1067.2	897.4	83.9
26°	1901.8	1887.5	1828.6	1755.7	1655.8	1546.2	1406.5	1255.5	1089.1	909.9	80.6
27°	1959.7	1933.4	1875.5	1791.7	1683.3	1571.4	1426.9	1270.1	1096.7	910.4	76.5
28°	1992.8	1964.3	1898.7	1810.5	1701.2	1585.4	1438.6	1274.7	1095.2	902.5	71.6
29°	2003.3	1967.3	1903.3	1813.6	1705.5	1586.5	1436.8	1268.0	1081.7	883.1	66.0
30°	1983.9	1947.2	1886.5	1799.1	1691.7	1573.7	1420.2	1246.1	1057.7	855.3	60.9
31°	1941.6	1910.5	1851.8	1764.1	1661.1	1543.9	1382.8	1210.2	1016.9	818.1	55.1
32°	1885.7	1855.2	1797.5	1718.3	1613.5	1495.2	1331.5	1154.1	969.0	762.5	49.2
33°	1801.9	1784.3	1732.5	1656.8	1552.0	1425.6	1262.7	1087.0	900.7	700.8	44.1
34°	1717.0	1694.8	1658.6	1575.7	1463.1	1336.9	1172.9	994.5	817.3	631.7	39.3
35°	1619.1	1605.8	1549.0	1482.7	1369.5	1240.5	1077.6	904.5	720.2	554.7	34.4
36°	1524.2	1503.9	1439.1	1369.0	1259.1	1119.7	958.8	796.2	636.3	482.6	29.3
37°	1386.6	1355.5	1309.3	1235.4	1106.9	988.1	841.3	690.4	533.1	404.6	23.7
38°	1224.7	1210.2	1146.2	1071.7	965.4	852.8	707.4	579.5	439.8	337.8	18.1
39°	1033.8	1033.5	972.3	918.5	814.5	713.0	582.0	470.4	363.0	272.0	14.0
40°	871.9	841.8	804.1	736.5	656.7	570.5	455.8	368.1	281.7	219.2	11.0
42.5°	457.1	454.5	432.4	381.6	337.0	286.3	227.7	189.7	148.4	120.8	6.9
45°	196.3	197.6	182.3	174.6	157.3	136.1	115.0	95.9	82.1	66.5	4.1
47.5°	49.7	47.7	47.2	48.9	48.9	47.4	42.6	40.0	37.0	33.9	2.3
50°	21.4	20.9	20.4	20.4	19.1	18.4	17.1	15.6	14.3	12.7	1.0
52.5°	7.9	8.2	8.4	8.2	8.2	7.9	7.9	7.6	6.9	6.1	0.5
55°	2.5	2.5	2.5	2.8	2.8	3.1	3.1	3.1	3.1	2.8	0.0
57.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	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°	9.7	9.7	9.7	9.7	9.7	9.7
2.5°	11.2	9.9	8.4	7.1	6.9	6.6
5°	12.5	9.2	6.9	5.6	5.1	4.8
7.5°	13.5	8.4	5.6	4.1	3.6	3.3
10°	14.0	7.4	4.6	3.1	2.3	2.3
12.5°	14.3	6.4	3.3	2.0	1.3	1.3
15°	14.0	5.4	2.5	1.0	0.3	0.3
17.5°	12.7	4.3	1.5	0.3	0.0	0.0
20°	11.0	3.6	1.0	0.0	0.0	0.0
21°	10.5	3.1	0.8	0.0	0.0	0.0
22°	9.7	2.8	0.5	0.0	0.0	0.0
23°	8.9	2.5	0.5	0.0	0.0	0.0
24°	8.2	2.3	0.3	0.0	0.0	0.0
25°	7.6	2.0	0.3	0.0	0.0	0.0
26°	7.1	1.8	0.3	0.0	0.0	0.0
27°	6.4	1.5	0.0	0.0	0.0	0.0
28°	5.9	1.3	0.0	0.0	0.0	0.0
29°	5.1	1.0	0.0	0.0	0.0	0.0
30°	4.3	0.8	0.0	0.0	0.0	0.0
31°	3.6	0.8	0.0	0.0	0.0	0.0
32°	3.1	0.5	0.0	0.0	0.0	0.0
33°	2.5	0.5	0.0	0.0	0.0	0.0
34°	2.3	0.5	0.0	0.0	0.0	0.0
35°	2.0	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.3	0.0	0.0	0.0	0.0
37°	1.3	0.3	0.0	0.0	0.0	0.0
38°	1.0	0.3	0.0	0.0	0.0	0.0
39°	0.8	0.0	0.0	0.0	0.0	0.0
40°	0.8	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	0.5
50°	0.0	0.3	0.3	0.3	0.5	0.8
52.5°	0.0	0.5	0.3	0.3	0.8	0.8
55°	0.3	0.5	0.3	0.5	1.0	1.0
57.5°	0.3	0.5	0.5	0.8	1.0	1.3
60°	0.5	0.8	0.8	0.8	1.3	1.3
62.5°	0.5	0.8	1.0	1.0	1.3	1.5
65°	0.5	1.0	1.0	1.0	1.3	1.5
67.5°	0.8	1.0	1.0	1.0	1.3	1.5
70°	0.8	1.0	1.0	1.0	1.3	1.3
72.5°	0.8	1.0	0.8	1.0	1.0	1.3
75°	0.8	1.0	0.8	0.8	1.0	1.0
77.5°	0.5	0.8	0.8	0.5	0.8	0.8
80°	0.5	0.8	0.5	0.5	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.8	0.5	0.3	0.5	0.5
85°	0.5	0.8	0.5	0.3	0.3	0.3
87.5°	0.5	0.8	0.5	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)