

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: P1340477

Luminaire Tested: P3A09R209740DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340477
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: P3A09R209740DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

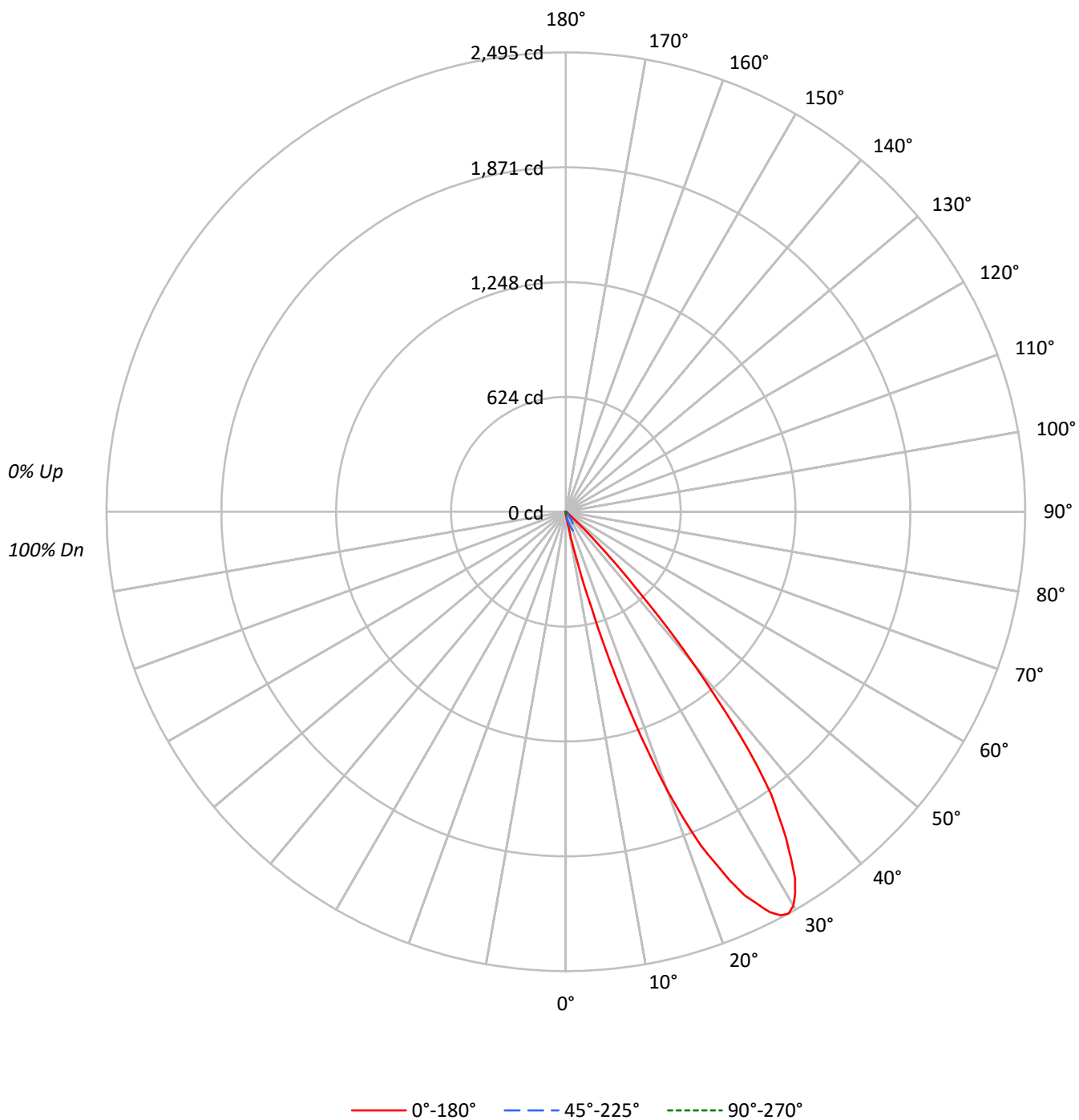
Lumens per Lamp: N/A
Luminaire Lumens: 350.0 lumens
Efficiency: N/A
Efficacy: 31.5 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	0
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	76	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°	2653	2653	2653	2653	2653
5°	6075	4534	2509	1541	1321
10°	19171	7927	2049	846	646
15°	124132	14643	1521	295	68
20°	374626	25039	1027	0	0
25°	556387	25284	605	0	0
30°	625666	19218	253	0	0
35°	539855	11484	161	0	0
40°	310868	3922	0	0	0
45°	75822	1582	93	0	93
50°	9108	443	102	102	341
55°	1223	0	229	229	497
60°	132	0	439	439	702
65°	156	156	675	675	986
70°	192	192	833	833	1026
75°	0	254	1101	847	1101
80°	0	379	1263	758	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 76318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.5
10°-20°	32.4	9.3
20°-30°	141.4	40.4
30°-40°	142.4	40.7
40°-50°	28.6	8.2
50°-60°	1.4	0.4
60°-70°	1.0	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°	175.4	50.1
0°-40°	317.8	90.8
0°-60°	347.8	99.4
0°-90°	350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	350.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	28	21	11	7	6	4
15°	547	64	7	1	0	214
25°	2300	104	2	0	0	1037
35°	2017	43	1	0	0	1200
45°	244	5	0	0	0	266
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°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	18.1	18.1	17.8	17.8	17.5	17.8	17.1	17.5	17.5	17.1	15.6
5°	27.6	28.3	27.9	27.9	27.6	27.9	27.3	26.7	26.0	26.0	20.6
7.5°	45.4	45.1	44.5	44.8	43.8	43.2	42.5	42.2	40.3	39.4	27.0
10°	86.1	88.0	86.4	86.1	80.3	80.0	76.2	70.8	66.0	63.5	35.6
12.5°	236.9	247.0	231.2	223.5	219.1	202.0	194.6	175.9	157.8	144.2	45.1
15°	546.8	571.9	539.8	542.0	515.4	466.5	423.6	386.8	343.3	299.4	64.5
17.5°	1071.4	1051.0	1033.6	1004.0	949.7	878.0	785.6	691.9	610.9	526.2	89.9
20°	1605.4	1587.3	1547.7	1483.2	1414.0	1307.6	1197.7	1057.1	920.8	793.2	107.3
21°	1789.3	1783.3	1718.2	1678.5	1571.8	1470.2	1343.5	1193.0	1039.6	888.5	110.2
22°	1953.5	1917.3	1882.3	1823.6	1717.5	1607.0	1466.0	1307.6	1141.2	973.2	110.5
23°	2067.1	2050.6	2017.6	1951.2	1845.8	1715.9	1567.3	1401.6	1226.3	1033.3	109.5
24°	2192.9	2171.9	2123.7	2046.2	1939.8	1811.5	1642.0	1477.5	1287.0	1083.7	107.0
25°	2299.6	2266.9	2209.7	2126.2	2010.0	1877.6	1707.1	1526.4	1329.2	1117.7	104.5
26°	2368.8	2351.0	2277.7	2186.8	2062.4	1925.8	1751.8	1563.8	1356.5	1133.3	100.3
27°	2440.9	2408.2	2336.1	2231.6	2096.7	1957.3	1777.2	1581.9	1366.0	1133.9	95.3
28°	2482.2	2446.6	2365.0	2255.1	2118.9	1974.7	1791.8	1587.7	1364.1	1124.1	89.2
29°	2495.2	2450.4	2370.7	2258.9	2124.3	1976.0	1789.6	1579.4	1347.3	1099.9	82.2
30°	2471.0	2425.3	2349.7	2240.8	2107.1	1960.1	1769.0	1552.1	1317.4	1065.3	75.9
31°	2418.3	2379.6	2306.6	2197.3	2069.0	1923.0	1722.3	1507.3	1266.6	1019.0	68.6
32°	2348.8	2310.7	2238.9	2140.2	2009.7	1862.3	1658.5	1437.5	1206.9	949.7	61.3
33°	2244.3	2222.4	2158.0	2063.6	1933.1	1775.6	1572.7	1354.0	1121.8	872.9	54.9
34°	2138.6	2111.0	2065.9	1962.7	1822.3	1665.1	1461.0	1238.7	1018.0	786.8	48.9
35°	2016.7	2000.1	1929.3	1846.8	1705.8	1545.1	1342.2	1126.6	897.0	691.0	42.9
36°	1898.5	1873.1	1792.5	1705.2	1568.3	1394.6	1194.2	991.7	792.6	601.1	36.5
37°	1727.1	1688.3	1630.8	1538.8	1378.7	1230.8	1047.9	859.9	664.0	503.9	29.5
38°	1525.4	1507.3	1427.6	1334.9	1202.5	1062.1	881.2	721.8	547.7	420.7	22.5
39°	1287.6	1287.3	1211.1	1144.1	1014.5	888.1	724.9	585.8	452.2	338.8	17.5
40°	1086.0	1048.5	1001.5	917.4	818.0	710.6	567.7	458.5	350.9	273.1	13.7
42.5°	569.3	566.2	538.5	475.3	419.8	356.6	283.6	236.2	184.8	150.5	8.6
45°	244.5	246.1	227.0	217.5	195.9	169.6	143.2	119.4	102.2	82.9	5.1
47.5°	61.9	59.4	58.7	61.0	61.0	59.1	53.0	49.9	46.0	42.2	2.9
50°	26.7	26.0	25.4	25.4	23.8	22.9	21.3	19.4	17.8	15.9	1.3
52.5°	9.8	10.2	10.5	10.2	10.2	9.8	9.8	9.5	8.6	7.6	0.6
55°	3.2	3.2	3.2	3.5	3.5	3.8	3.8	3.8	3.8	3.5	0.0
57.5°	0.6	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.3	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°	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	14.0	12.4	10.5	8.9	8.6	8.3
5°	15.6	11.4	8.6	7.0	6.4	6.0
7.5°	16.8	10.5	7.0	5.1	4.4	4.1
10°	17.5	9.2	5.7	3.8	2.9	2.9
12.5°	17.8	7.9	4.1	2.5	1.6	1.6
15°	17.5	6.7	3.2	1.3	0.3	0.3
17.5°	15.9	5.4	1.9	0.3	0.0	0.0
20°	13.7	4.4	1.3	0.0	0.0	0.0
21°	13.0	3.8	1.0	0.0	0.0	0.0
22°	12.1	3.5	0.6	0.0	0.0	0.0
23°	11.1	3.2	0.6	0.0	0.0	0.0
24°	10.2	2.9	0.3	0.0	0.0	0.0
25°	9.5	2.5	0.3	0.0	0.0	0.0
26°	8.9	2.2	0.3	0.0	0.0	0.0
27°	7.9	1.9	0.0	0.0	0.0	0.0
28°	7.3	1.6	0.0	0.0	0.0	0.0
29°	6.4	1.3	0.0	0.0	0.0	0.0
30°	5.4	1.0	0.0	0.0	0.0	0.0
31°	4.4	1.0	0.0	0.0	0.0	0.0
32°	3.8	0.6	0.0	0.0	0.0	0.0
33°	3.2	0.6	0.0	0.0	0.0	0.0
34°	2.9	0.6	0.0	0.0	0.0	0.0
35°	2.5	0.6	0.0	0.0	0.0	0.0
36°	1.9	0.3	0.0	0.0	0.0	0.0
37°	1.6	0.3	0.0	0.0	0.0	0.0
38°	1.3	0.3	0.0	0.0	0.0	0.0
39°	1.0	0.0	0.0	0.0	0.0	0.0
40°	1.0	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	1.0
52.5°	0.0	0.6	0.3	0.3	1.0	1.0
55°	0.3	0.6	0.3	0.6	1.3	1.3
57.5°	0.3	0.6	0.6	1.0	1.3	1.6
60°	0.6	1.0	1.0	1.0	1.6	1.6
62.5°	0.6	1.0	1.3	1.3	1.6	1.9
65°	0.6	1.3	1.3	1.3	1.6	1.9
67.5°	1.0	1.3	1.3	1.3	1.6	1.9
70°	1.0	1.3	1.3	1.3	1.6	1.6
72.5°	1.0	1.3	1.0	1.3	1.3	1.6
75°	1.0	1.3	1.0	1.0	1.3	1.3
77.5°	0.6	1.0	1.0	0.6	1.0	1.0
80°	0.6	1.0	0.6	0.6	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	1.0	0.6	0.3	0.6	0.6
85°	0.6	1.0	0.6	0.3	0.3	0.3
87.5°	0.6	1.0	0.6	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)