

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: P1340445

Luminaire Tested: P3A09R209730DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340445
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: P3A09R209730DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

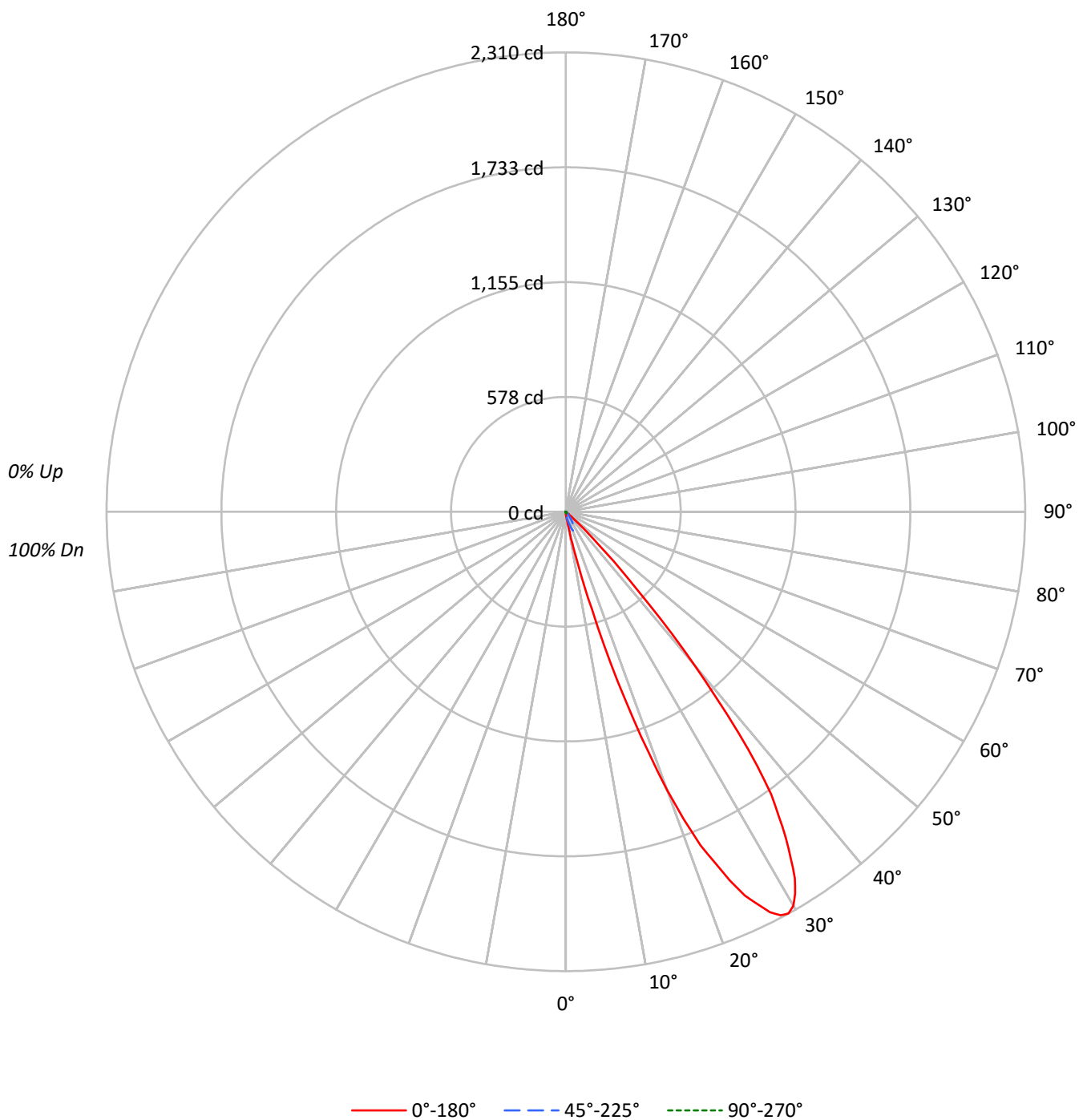
Lumens per Lamp: N/A
Luminaire Lumens: 324.1 lumens
Efficiency: N/A
Efficacy: 29.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	2456	2456	2456	2456	2456
5°	5635	4204	2333	1431	1233
10°	17746	7326	1893	779	579
15°	114916	13553	1407	272	68
20°	346810	23195	957	0	0
25°	515038	23397	581	0	0
30°	579203	17800	228	0	0
35°	499728	10627	161	0	0
40°	287768	3607	0	0	0
45°	70178	1458	93	0	93
50°	8426	409	102	102	307
55°	1109	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: 70643 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.5
10°-20°	30.0	9.3
20°-30°	130.9	40.4
30°-40°	131.8	40.7
40°-50°	26.4	8.2
50°-60°	1.3	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°	162.4	50.1
0°-40°	294.2	90.8
0°-60°	322.0	99.4
0°-90°	324.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	324.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	26	19	11	6	6	4
15°	506	60	6	1	0	198
25°	2129	97	2	0	0	960
35°	1867	40	1	0	0	1111
45°	226	5	0	0	0	246
55°	3	0	1	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°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	16.8	16.8	16.5	16.5	16.2	16.5	15.9	16.2	16.2	15.9	14.4
5°	25.6	26.2	25.9	25.9	25.6	25.9	25.3	24.7	24.1	24.1	19.1
7.5°	42.0	41.7	41.2	41.4	40.6	40.0	39.4	39.1	37.3	36.4	25.0
10°	79.7	81.4	80.0	79.7	74.4	74.1	70.5	65.5	61.1	58.8	32.9
12.5°	219.3	228.7	214.0	206.9	202.8	186.9	180.2	162.8	146.1	133.5	41.7
15°	506.2	529.4	499.7	501.8	477.1	431.8	392.1	358.0	317.8	277.2	59.7
17.5°	991.8	973.0	956.8	929.5	879.2	812.8	727.2	640.5	565.5	487.1	83.2
20°	1486.2	1469.4	1432.7	1373.0	1308.9	1210.5	1108.8	978.5	852.4	734.3	99.4
21°	1656.4	1650.8	1590.5	1553.8	1455.0	1361.0	1243.7	1104.4	962.4	822.5	102.0
22°	1808.3	1774.8	1742.5	1688.1	1589.9	1487.7	1357.1	1210.5	1056.4	900.9	102.3
23°	1913.6	1898.3	1867.7	1806.3	1708.7	1588.5	1450.9	1297.5	1135.2	956.5	101.4
24°	2030.0	2010.6	1965.9	1894.2	1795.7	1677.0	1520.0	1367.7	1191.4	1003.2	99.1
25°	2128.7	2098.5	2045.6	1968.3	1860.7	1738.1	1580.2	1413.0	1230.5	1034.7	96.7
26°	2192.8	2176.4	2108.5	2024.4	1909.2	1782.8	1621.7	1447.7	1255.7	1049.1	92.9
27°	2259.6	2229.3	2162.6	2065.8	1940.9	1811.9	1645.2	1464.4	1264.6	1049.7	88.2
28°	2297.8	2264.8	2189.3	2087.6	1961.5	1828.0	1658.7	1469.7	1262.8	1040.6	82.6
29°	2309.8	2268.4	2194.6	2091.1	1966.5	1829.2	1656.7	1462.1	1247.2	1018.2	76.1
30°	2287.5	2245.2	2175.2	2074.4	1950.6	1814.5	1637.6	1436.8	1219.6	986.2	70.3
31°	2238.7	2202.8	2135.2	2034.1	1915.3	1780.1	1594.4	1395.4	1172.5	943.3	63.5
32°	2174.3	2139.0	2072.6	1981.2	1860.4	1724.0	1535.3	1330.7	1117.3	879.2	56.7
33°	2077.6	2057.3	1997.6	1910.3	1789.5	1643.7	1455.9	1253.4	1038.5	808.1	50.9
34°	1979.7	1954.1	1912.4	1816.9	1686.9	1541.4	1352.4	1146.7	942.4	728.4	45.3
35°	1866.8	1851.6	1786.0	1709.6	1579.1	1430.3	1242.5	1042.9	830.4	639.6	39.7
36°	1757.5	1734.0	1659.3	1578.5	1451.8	1291.0	1105.5	918.0	733.7	556.4	33.8
37°	1598.8	1562.9	1509.7	1424.5	1276.3	1139.3	970.0	796.0	614.6	466.5	27.3
38°	1412.1	1395.4	1321.6	1235.7	1113.2	983.2	815.7	668.1	507.1	389.5	20.9
39°	1191.9	1191.7	1121.1	1059.1	939.2	822.2	671.1	542.3	418.6	313.6	16.2
40°	1005.3	970.6	927.1	849.2	757.2	657.8	525.6	424.5	324.8	252.8	12.6
42.5°	527.0	524.1	498.5	440.0	388.6	330.1	262.5	218.7	171.1	139.3	7.9
45°	226.3	227.8	210.2	201.4	181.4	157.0	132.6	110.5	94.7	76.7	4.7
47.5°	57.3	55.0	54.4	56.4	56.4	54.7	49.1	46.1	42.6	39.1	2.6
50°	24.7	24.1	23.5	23.5	22.0	21.2	19.7	17.9	16.5	14.7	1.2
52.5°	9.1	9.4	9.7	9.4	9.4	9.1	9.1	8.8	7.9	7.1	0.6
55°	2.9	2.9	2.9	3.2	3.2	3.5	3.5	3.5	3.5	3.2	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°	11.2	11.2	11.2	11.2	11.2	11.2
2.5°	12.9	11.5	9.7	8.2	7.9	7.6
5°	14.4	10.6	7.9	6.5	5.9	5.6
7.5°	15.6	9.7	6.5	4.7	4.1	3.8
10°	16.2	8.5	5.3	3.5	2.6	2.6
12.5°	16.5	7.3	3.8	2.4	1.5	1.5
15°	16.2	6.2	2.9	1.2	0.3	0.3
17.5°	14.7	5.0	1.8	0.3	0.0	0.0
20°	12.6	4.1	1.2	0.0	0.0	0.0
21°	12.1	3.5	0.9	0.0	0.0	0.0
22°	11.2	3.2	0.6	0.0	0.0	0.0
23°	10.3	2.9	0.6	0.0	0.0	0.0
24°	9.4	2.6	0.3	0.0	0.0	0.0
25°	8.8	2.4	0.3	0.0	0.0	0.0
26°	8.2	2.1	0.3	0.0	0.0	0.0
27°	7.3	1.8	0.0	0.0	0.0	0.0
28°	6.8	1.5	0.0	0.0	0.0	0.0
29°	5.9	1.2	0.0	0.0	0.0	0.0
30°	5.0	0.9	0.0	0.0	0.0	0.0
31°	4.1	0.9	0.0	0.0	0.0	0.0
32°	3.5	0.6	0.0	0.0	0.0	0.0
33°	2.9	0.6	0.0	0.0	0.0	0.0
34°	2.6	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)