

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: P1310104

Luminaire Tested: P3SQAS09R409040DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R409040DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

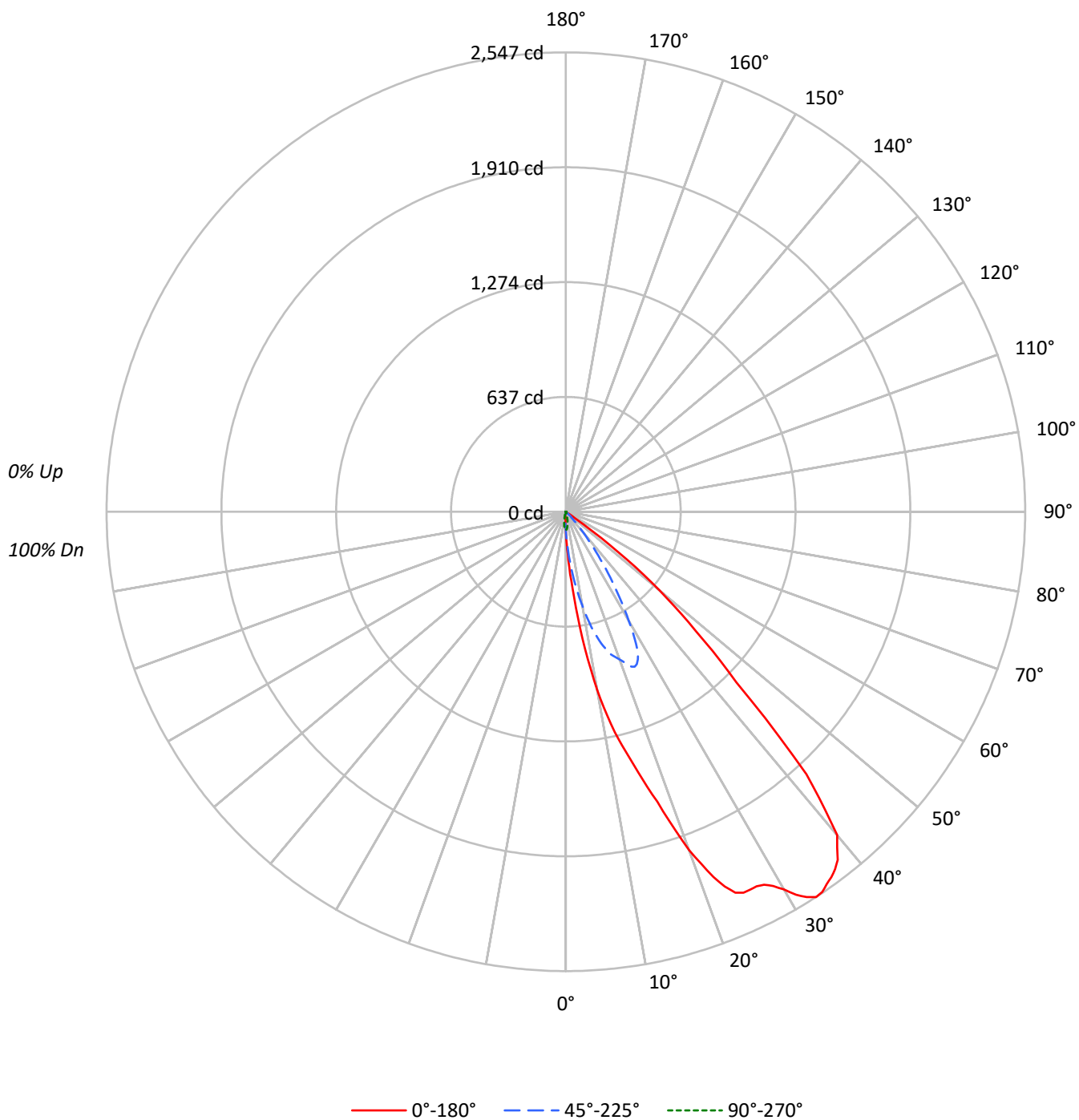
Lumens per Lamp: N/A
Luminaire Lumens: 855.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1310104

CATALOG NUMBER: P3SQAS09R409040DE010 E3SQCA301MB

Luminous Intensity Polar Plot





TEST NUMBER: P1310104

CATALOG NUMBER: P3SQAS09R409040DE010 E3SQCA301MB

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83			
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67			
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49			
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17222	17222	17222	17222	17222
5°	73094	49824	15110	2714	1366
10°	175701	92669	9356	280	0
15°	258603	134633	3923	0	0
20°	365543	159615	1448	0	0
25°	442743	177162	0	0	0
30°	480718	138589	0	0	0
35°	530091	81113	0	0	0
40°	526125	32936	0	0	0
45°	325834	9596	0	0	0
50°	181443	214	0	0	0
55°	17745	0	0	0	0
60°	0	0	276	0	0
65°	0	0	326	0	0
70°	0	403	806	0	0
75°	0	532	1065	0	0
80°	0	793	1587	0	0
85°	0	1581	3162	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 327368 cd/sqm

TEST NUMBER: P1310104

CATALOG NUMBER: P3SQAS09R409040DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.7	2.2
10°-20°	110.2	12.9
20°-30°	251.6	29.4
30°-40°	297.0	34.7
40°-50°	158.7	18.6
50°-60°	17.2	2.0
60°-70°	0.3	0.0
70°-80°	0.6	0.1
80°-90°	0.6	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°	380.5	44.5
0°-40°	677.5	79.2
0°-60°	853.5	99.8
0°-90°	855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	855.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	100	100	100	100	100	
5°	423	288	87	16	8	59
15°	1450	755	22	0	0	431
25°	2330	932	0	0	0	1058
35°	2521	386	0	0	0	1557
45°	1338	39	0	0	0	1103
55°	59	0	0	0	0	166
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1310104

CATALOG NUMBER: P3SQAS09R409040DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2.5°	233.1	228.3	231.5	225.2	225.2	211.0	211.8	200.0	182.7	139.4	99.2
5°	422.8	441.7	426.8	407.1	396.1	381.9	363.0	343.3	288.2	174.0	87.4
7.5°	707.9	706.3	681.1	659.8	635.4	597.6	562.2	514.2	410.2	199.2	72.4
10°	1004.7	999.2	970.9	952.8	906.3	852.0	779.5	702.4	529.9	207.9	53.5
12.5°	1252.0	1244.9	1221.3	1190.6	1139.4	1070.9	992.9	891.3	655.9	198.4	34.6
15°	1450.4	1448.8	1426.0	1384.3	1330.7	1263.8	1175.6	1053.6	755.1	174.0	22.0
17.5°	1685.8	1695.3	1654.3	1609.5	1532.3	1438.6	1330.7	1191.3	828.4	144.1	14.2
20°	1994.5	1981.1	1943.3	1878.0	1803.9	1691.3	1538.6	1339.4	870.9	111.8	7.9
21°	2089.0	2083.5	2044.1	1983.5	1901.6	1787.4	1629.9	1415.0	890.6	100.0	6.3
22°	2185.1	2175.6	2144.9	2085.8	2008.7	1879.5	1706.3	1492.9	915.8	87.4	3.9
23°	2256.7	2252.8	2229.1	2170.9	2091.4	1966.2	1789.0	1565.4	933.1	75.6	2.4
24°	2311.8	2307.1	2283.5	2239.4	2170.9	2040.2	1872.5	1643.3	940.2	65.4	0.8
25°	2329.9	2332.3	2318.1	2283.5	2226.0	2095.3	1934.7	1704.7	932.3	55.9	0.0
26°	2330.7	2337.8	2327.6	2307.9	2260.6	2139.4	1992.9	1741.0	911.8	47.2	0.0
27°	2330.7	2337.8	2327.6	2312.6	2266.2	2164.6	2024.4	1744.9	880.3	40.2	0.0
28°	2341.7	2345.7	2332.3	2314.2	2263.8	2172.5	2033.1	1721.3	829.9	34.6	0.0
29°	2372.5	2368.5	2346.5	2322.1	2261.4	2172.5	2007.1	1676.4	766.9	29.1	0.0
30°	2417.3	2417.3	2382.7	2344.1	2272.5	2171.7	1965.4	1595.3	696.9	23.6	0.0
31°	2478.0	2472.5	2437.8	2380.3	2296.1	2171.7	1903.9	1505.5	632.3	20.5	0.0
32°	2518.9	2515.8	2482.7	2415.0	2334.7	2171.7	1837.8	1406.3	562.2	16.5	0.0
33°	2547.3	2541.0	2503.2	2433.1	2358.3	2160.6	1763.8	1300.0	499.2	13.4	0.0
34°	2543.3	2541.7	2502.4	2429.9	2353.6	2115.0	1678.0	1181.9	440.9	11.0	0.0
35°	2521.3	2521.3	2473.2	2398.4	2319.7	2048.0	1592.9	1081.1	385.8	7.9	0.0
36°	2504.7	2498.4	2444.1	2360.6	2263.0	1942.5	1466.9	979.5	326.8	6.3	0.0
37°	2480.3	2468.5	2407.9	2318.1	2182.7	1828.4	1334.7	889.0	276.4	3.9	0.0
38°	2448.8	2430.7	2356.7	2268.5	2094.5	1696.9	1200.0	787.4	229.9	2.4	0.0
39°	2391.4	2376.4	2300.0	2204.7	1989.0	1558.3	1069.3	692.1	185.8	0.8	0.0
40°	2340.2	2314.2	2227.6	2118.1	1865.4	1401.6	939.4	598.4	146.5	0.0	0.0
42.5°	1973.2	1945.7	1926.0	1817.3	1485.8	1006.3	655.9	383.5	76.4	0.0	0.0
45°	1337.8	1344.1	1282.7	1209.5	980.3	655.9	410.2	213.4	39.4	0.0	0.0
47.5°	975.6	959.1	875.6	737.0	574.8	383.5	214.2	103.2	15.7	0.0	0.0
50°	677.2	645.7	570.1	466.1	312.6	182.7	94.5	48.0	0.8	0.0	0.0
52.5°	367.7	345.7	292.9	212.6	129.9	70.1	37.8	19.7	0.0	0.0	0.0
55°	59.1	40.9	42.5	36.2	28.3	20.5	11.8	2.4	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8	0.8
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6



TEST NUMBER: P1310104

CATALOG NUMBER: P3SQAS09R409040DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1310104

CATALOG NUMBER: P3SQAS09R409040DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	100.0	100.0	100.0	100.0
2.5°	66.9	45.7	34.6	29.9
5°	38.6	15.7	8.7	7.9
7.5°	18.9	5.5	3.1	3.1
10°	7.9	1.6	0.0	0.0
12.5°	2.4	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.8	0.0	0.0	0.0
67.5°	0.8	0.0	0.0	0.0
70°	0.8	0.0	0.0	0.0
72.5°	0.8	0.0	0.0	0.0
75°	0.8	0.0	0.0	0.0
77.5°	0.8	0.0	0.0	0.0
80°	0.8	0.0	0.0	0.0



TEST NUMBER: P1310104

CATALOG NUMBER: P3SQAS09R409040DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.8	0.0	0.0	0.0
85°	0.8	0.0	0.0	0.0
87.5°	0.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)