

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: P1316270

Luminaire Tested: P3SQAS13R409827DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316270
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: P3SQAS13R409827DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

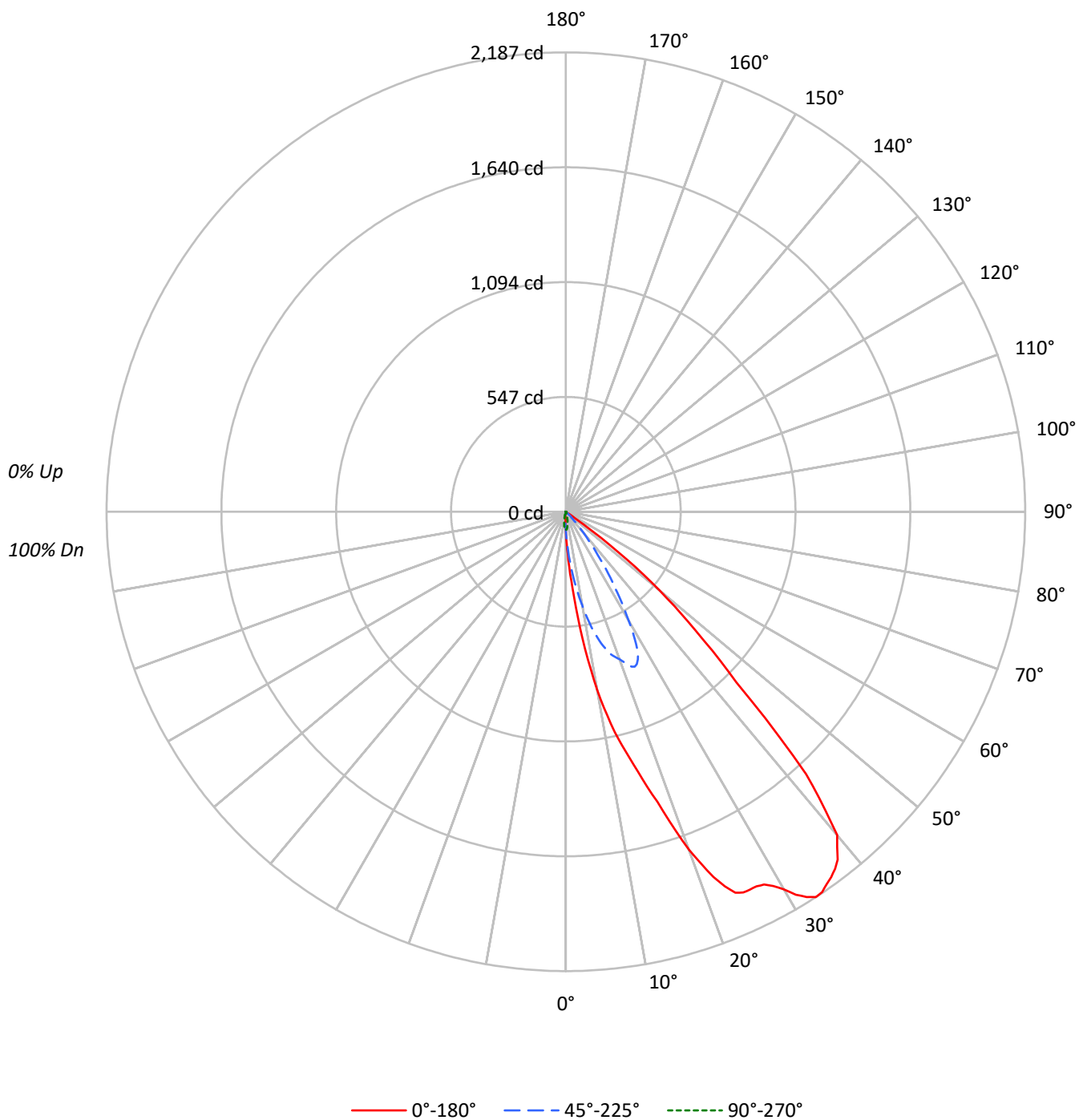
Lumens per Lamp: N/A
Luminaire Lumens: 734.0 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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: P1316270

CATALOG NUMBER: P3SQAS13R409827DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1316270

CATALOG NUMBER: P3SQAS13R409827DE010 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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	93	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	50	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	42	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14777	14777	14777	14777	14777
5°	62756	42771	12966	2334	1176
10°	150834	79553	8044	245	0
15°	221999	115591	3370	0	0
20°	313804	137017	1246	0	0
25°	380091	152097	0	0	0
30°	412686	118961	0	0	0
35°	455075	69633	0	0	0
40°	451665	28260	0	0	0
45°	279728	8232	0	0	0
50°	155748	188	0	0	0
55°	15223	0	0	0	0
60°	0	0	241	0	0
65°	0	0	285	0	0
70°	0	352	705	0	0
75°	0	466	932	0	0
80°	0	694	1389	0	0
85°	0	1383	2766	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 281043 cd/sqm

TEST NUMBER: P1316270

CATALOG NUMBER: P3SQAS13R409827DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	2.2
10°-20°	94.6	12.9
20°-30°	216.0	29.4
30°-40°	255.0	34.7
40°-50°	136.2	18.6
50°-60°	14.8	2.0
60°-70°	0.3	0.0
70°-80°	0.5	0.1
80°-90°	0.5	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°	326.7	44.5
0°-40°	581.7	79.2
0°-60°	732.7	99.8
0°-90°	734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	734.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	86	86	86	86	86	
5°	363	247	75	14	7	51
15°	1245	648	19	0	0	370
25°	2000	800	0	0	0	908
35°	2164	331	0	0	0	1337
45°	1148	34	0	0	0	947
55°	51	0	0	0	0	142
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1316270

CATALOG NUMBER: P3SQAS13R409827DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2.5°	200.1	196.0	198.7	193.3	193.3	181.2	181.8	171.7	156.8	119.6	85.2
5°	363.0	379.2	366.4	349.5	340.0	327.8	311.6	294.7	247.4	149.4	75.0
7.5°	607.7	606.3	584.7	566.5	545.5	513.1	482.6	441.4	352.2	171.0	62.2
10°	862.5	857.8	833.5	817.9	778.0	731.4	669.2	603.0	454.9	178.5	46.0
12.5°	1074.8	1068.7	1048.4	1022.1	978.1	919.3	852.4	765.2	563.1	170.3	29.7
15°	1245.1	1243.8	1224.2	1188.4	1142.4	1084.9	1009.2	904.5	648.3	149.4	18.9
17.5°	1447.3	1455.4	1420.2	1381.7	1315.4	1235.0	1142.4	1022.7	711.1	123.7	12.2
20°	1712.2	1700.7	1668.3	1612.2	1548.7	1452.0	1320.9	1149.8	747.6	96.0	6.8
21°	1793.4	1788.6	1754.8	1702.8	1632.5	1534.5	1399.3	1214.7	764.5	85.8	5.4
22°	1875.8	1867.7	1841.3	1790.7	1724.4	1613.5	1464.8	1281.6	786.2	75.0	3.4
23°	1937.3	1934.0	1913.7	1863.7	1795.4	1687.9	1535.8	1343.8	801.0	64.9	2.0
24°	1984.7	1980.6	1960.3	1922.5	1863.7	1751.4	1607.5	1410.8	807.1	56.1	0.7
25°	2000.2	2002.2	1990.1	1960.3	1911.0	1798.8	1660.9	1463.5	800.4	48.0	0.0
26°	2000.9	2007.0	1998.2	1981.3	1940.7	1836.6	1710.9	1494.6	782.8	40.6	0.0
27°	2000.9	2007.0	1998.2	1985.3	1945.4	1858.2	1737.9	1498.0	755.7	34.5	0.0
28°	2010.3	2013.7	2002.2	1986.7	1943.4	1865.0	1745.4	1477.7	712.5	29.7	0.0
29°	2036.7	2033.3	2014.4	1993.4	1941.4	1865.0	1723.1	1439.1	658.4	25.0	0.0
30°	2075.2	2075.2	2045.5	2012.4	1950.9	1864.3	1687.2	1369.5	598.2	20.3	0.0
31°	2127.3	2122.6	2092.8	2043.5	1971.1	1864.3	1634.5	1292.5	542.8	17.6	0.0
32°	2162.4	2159.7	2131.3	2073.2	2004.3	1864.3	1577.7	1207.3	482.6	14.2	0.0
33°	2186.8	2181.4	2148.9	2088.8	2024.5	1854.9	1514.2	1116.0	428.6	11.5	0.0
34°	2183.4	2182.0	2148.2	2086.1	2020.5	1815.7	1440.5	1014.6	378.5	9.5	0.0
35°	2164.5	2164.5	2123.2	2059.0	1991.4	1758.2	1367.5	928.1	331.2	6.8	0.0
36°	2150.3	2144.9	2098.2	2026.6	1942.7	1667.6	1259.3	840.9	280.5	5.4	0.0
37°	2129.3	2119.2	2067.1	1990.1	1873.8	1569.6	1145.8	763.2	237.3	3.4	0.0
38°	2102.3	2086.7	2023.2	1947.5	1798.1	1456.7	1030.2	676.0	197.4	2.0	0.0
39°	2052.9	2040.1	1974.5	1892.7	1707.5	1337.7	918.0	594.2	159.5	0.7	0.0
40°	2009.0	1986.7	1912.3	1818.4	1601.4	1203.2	806.4	513.7	125.7	0.0	0.0
42.5°	1694.0	1670.3	1653.4	1560.1	1275.6	863.9	563.1	329.2	65.6	0.0	0.0
45°	1148.5	1153.9	1101.2	1038.3	841.6	563.1	352.2	183.2	33.8	0.0	0.0
47.5°	837.5	823.3	751.7	632.7	493.5	329.2	183.9	88.6	13.5	0.0	0.0
50°	581.3	554.3	489.4	400.2	268.4	156.8	81.1	41.2	0.7	0.0	0.0
52.5°	315.7	296.8	251.5	182.5	111.5	60.2	32.4	16.9	0.0	0.0	0.0
55°	50.7	35.2	36.5	31.1	24.3	17.6	10.1	2.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4



TEST NUMBER: P1316270

CATALOG NUMBER: P3SQAS13R409827DE010 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	0.7	0.7	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
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: P1316270

CATALOG NUMBER: P3SQAS13R409827DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	85.8	85.8	85.8	85.8
2.5°	57.5	39.2	29.7	25.7
5°	33.1	13.5	7.4	6.8
7.5°	16.2	4.7	2.7	2.7
10°	6.8	1.4	0.0	0.0
12.5°	2.0	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°	0.7	0.0	0.0	0.0
67.5°	0.7	0.0	0.0	0.0
70°	0.7	0.0	0.0	0.0
72.5°	0.7	0.0	0.0	0.0
75°	0.7	0.0	0.0	0.0
77.5°	0.7	0.0	0.0	0.0
80°	0.7	0.0	0.0	0.0



TEST NUMBER: P1316270

CATALOG NUMBER: P3SQAS13R409827DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.7	0.0	0.0	0.0
85°	0.7	0.0	0.0	0.0
87.5°	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)