

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: P1308986

Luminaire Tested: P3SQAS09R409035DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308986
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: P3SQAS09R409035DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

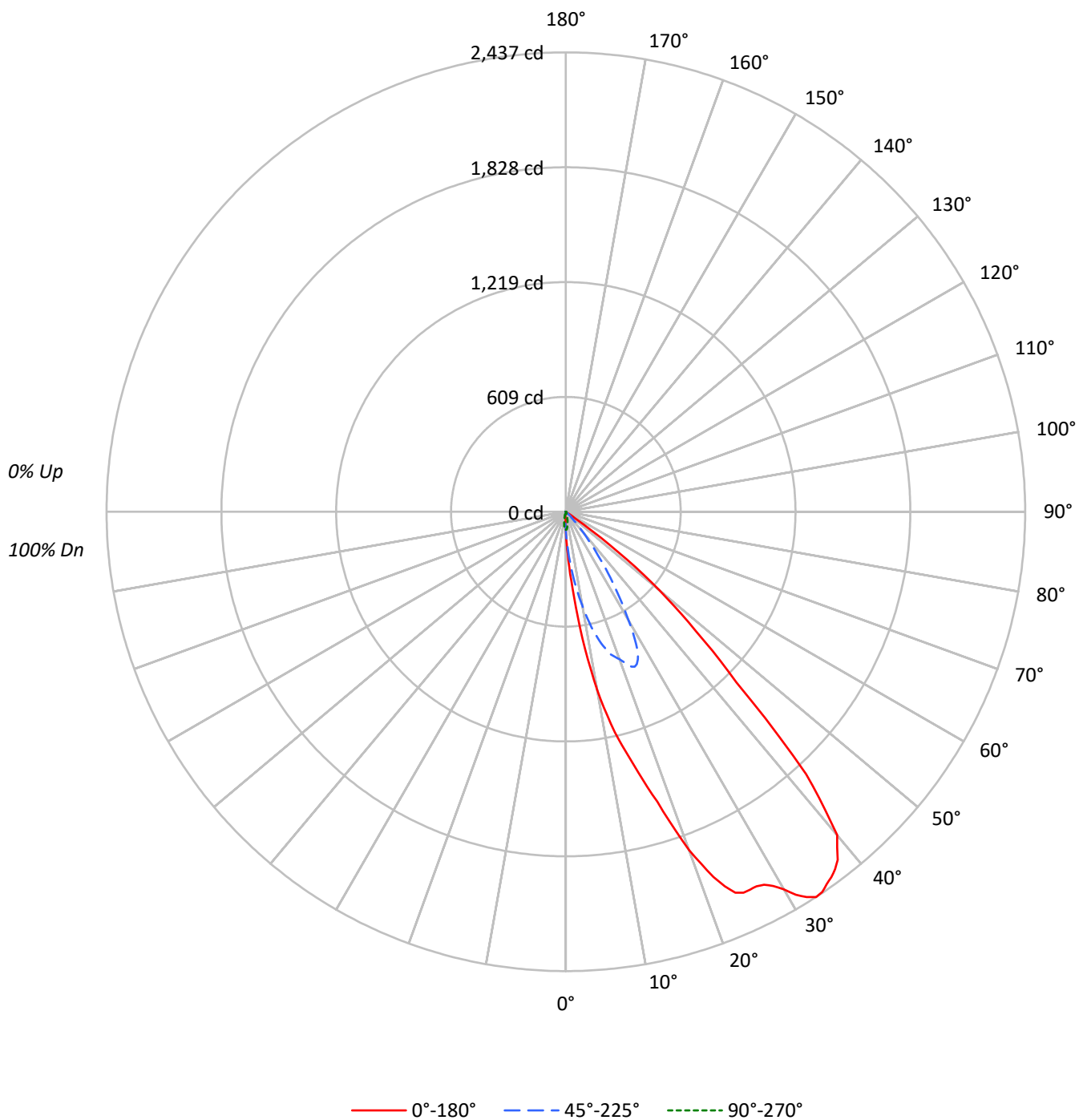
Lumens per Lamp: N/A
Luminaire Lumens: 818.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1308986

CATALOG NUMBER: P3SQAS09R409035DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1308986

CATALOG NUMBER: P3SQAS09R409035DE010 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°	16482	16482	16482	16482	16482
5°	69930	47663	14453	2610	1297
10°	168112	88664	8954	262	0
15°	247406	128802	3762	0	0
20°	349726	152705	1375	0	0
25°	423588	169485	0	0	0
30°	459916	132584	0	0	0
35°	507153	77601	0	0	0
40°	503351	31497	0	0	0
45°	311732	9182	0	0	0
50°	173592	214	0	0	0
55°	16965	0	0	0	0
60°	0	0	276	0	0
65°	0	0	326	0	0
70°	0	403	755	0	0
75°	0	532	998	0	0
80°	0	793	1488	0	0
85°	0	1581	2964	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 313193 cd/sqm

TEST NUMBER: P1308986

CATALOG NUMBER: P3SQAS09R409035DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	2.2
10°-20°	105.4	12.9
20°-30°	240.7	29.4
30°-40°	284.2	34.7
40°-50°	151.8	18.6
50°-60°	16.5	2.0
60°-70°	0.3	0.0
70°-80°	0.6	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°	364.0	44.5
0°-40°	648.2	79.2
0°-60°	816.6	99.8
0°-90°	818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	818.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	96	96	96	96	96	
5°	404	276	84	15	8	57
15°	1388	722	21	0	0	412
25°	2229	892	0	0	0	1012
35°	2412	369	0	0	0	1490
45°	1280	38	0	0	0	1055
55°	56	0	0	0	0	158
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: P1308986

CATALOG NUMBER: P3SQAS09R409035DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
2.5°	223.0	218.5	221.5	215.5	215.5	201.9	202.6	191.3	174.8	133.3	94.9
5°	404.5	422.6	408.3	389.5	378.9	365.4	347.3	328.5	275.7	166.5	83.6
7.5°	677.2	675.7	651.6	631.3	607.9	571.8	537.9	491.9	392.5	190.6	69.3
10°	961.3	956.0	928.9	911.5	867.1	815.1	745.8	672.0	507.0	198.9	51.2
12.5°	1197.8	1191.0	1168.4	1139.0	1090.1	1024.5	950.0	852.8	627.5	189.8	33.1
15°	1387.6	1386.1	1364.3	1324.4	1273.1	1209.1	1124.7	1008.0	722.4	166.5	21.1
17.5°	1612.9	1621.9	1582.7	1539.8	1466.0	1376.3	1273.1	1139.8	792.5	137.9	13.6
20°	1908.2	1895.4	1859.2	1796.7	1725.9	1618.2	1472.0	1281.4	833.2	107.0	7.5
21°	1998.6	1993.3	1955.6	1897.6	1819.3	1710.1	1559.4	1353.7	852.0	95.7	6.0
22°	2090.5	2081.5	2052.1	1995.6	1921.7	1798.2	1632.5	1428.3	876.1	83.6	3.8
23°	2159.0	2155.3	2132.7	2076.9	2000.8	1881.1	1711.6	1497.6	892.7	72.3	2.3
24°	2211.8	2207.3	2184.7	2142.5	2076.9	1951.9	1791.4	1572.2	899.5	62.5	0.8
25°	2229.1	2231.4	2217.8	2184.7	2129.7	2004.6	1850.9	1631.0	891.9	53.5	0.0
26°	2229.9	2236.6	2226.8	2208.0	2162.8	2046.8	1906.7	1665.6	872.4	45.2	0.0
27°	2229.9	2236.6	2226.8	2212.5	2168.1	2070.9	1936.8	1669.4	842.2	38.4	0.0
28°	2240.4	2244.2	2231.4	2214.0	2165.8	2078.4	1945.1	1646.8	794.0	33.1	0.0
29°	2269.8	2266.0	2244.9	2221.6	2163.6	2078.4	1920.2	1603.8	733.7	27.9	0.0
30°	2312.7	2312.7	2279.6	2242.7	2174.1	2077.7	1880.3	1526.3	666.7	22.6	0.0
31°	2370.7	2365.5	2332.3	2277.3	2196.7	2077.7	1821.6	1440.4	604.9	19.6	0.0
32°	2409.9	2406.9	2375.3	2310.5	2233.6	2077.7	1758.3	1345.5	537.9	15.8	0.0
33°	2437.0	2431.0	2394.8	2327.8	2256.2	2067.1	1687.5	1243.8	477.6	12.8	0.0
34°	2433.3	2431.8	2394.1	2324.8	2251.7	2023.4	1605.3	1130.8	421.9	10.5	0.0
35°	2412.2	2412.2	2366.2	2294.6	2219.3	1959.4	1524.0	1034.3	369.1	7.5	0.0
36°	2396.3	2390.3	2338.3	2258.5	2165.1	1858.5	1403.5	937.1	312.6	6.0	0.0
37°	2373.0	2361.7	2303.7	2217.8	2088.2	1749.2	1276.9	850.5	264.4	3.8	0.0
38°	2342.9	2325.5	2254.7	2170.3	2003.9	1623.4	1148.1	753.3	220.0	2.3	0.0
39°	2287.9	2273.6	2200.5	2109.3	1902.9	1490.8	1023.0	662.2	177.8	0.8	0.0
40°	2238.9	2214.0	2131.2	2026.5	1784.6	1340.9	898.7	572.5	140.1	0.0	0.0
42.5°	1887.8	1861.5	1842.6	1738.7	1421.5	962.8	627.5	366.9	73.1	0.0	0.0
45°	1279.9	1285.9	1227.2	1157.1	937.9	627.5	392.5	204.2	37.7	0.0	0.0
47.5°	933.4	917.6	837.7	705.1	549.9	366.9	204.9	98.7	15.1	0.0	0.0
50°	647.9	617.7	545.4	446.0	299.1	174.8	90.4	46.0	0.8	0.0	0.0
52.5°	351.8	330.7	280.2	203.4	124.3	67.0	36.2	18.8	0.0	0.0	0.0
55°	56.5	39.2	40.7	34.7	27.1	19.6	11.3	2.3	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	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	1.5



TEST NUMBER: P1308986

CATALOG NUMBER: P3SQAS09R409035DE010 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	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	1.5
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: P1308986

CATALOG NUMBER: P3SQAS09R409035DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	95.7	95.7	95.7	95.7
2.5°	64.0	43.7	33.1	28.6
5°	36.9	15.1	8.3	7.5
7.5°	18.1	5.3	3.0	3.0
10°	7.5	1.5	0.0	0.0
12.5°	2.3	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: P1308986

CATALOG NUMBER: P3SQAS09R409035DE010 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)