

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: P1306343

Luminaire Tested: P3SQAS02R159027DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R159027DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

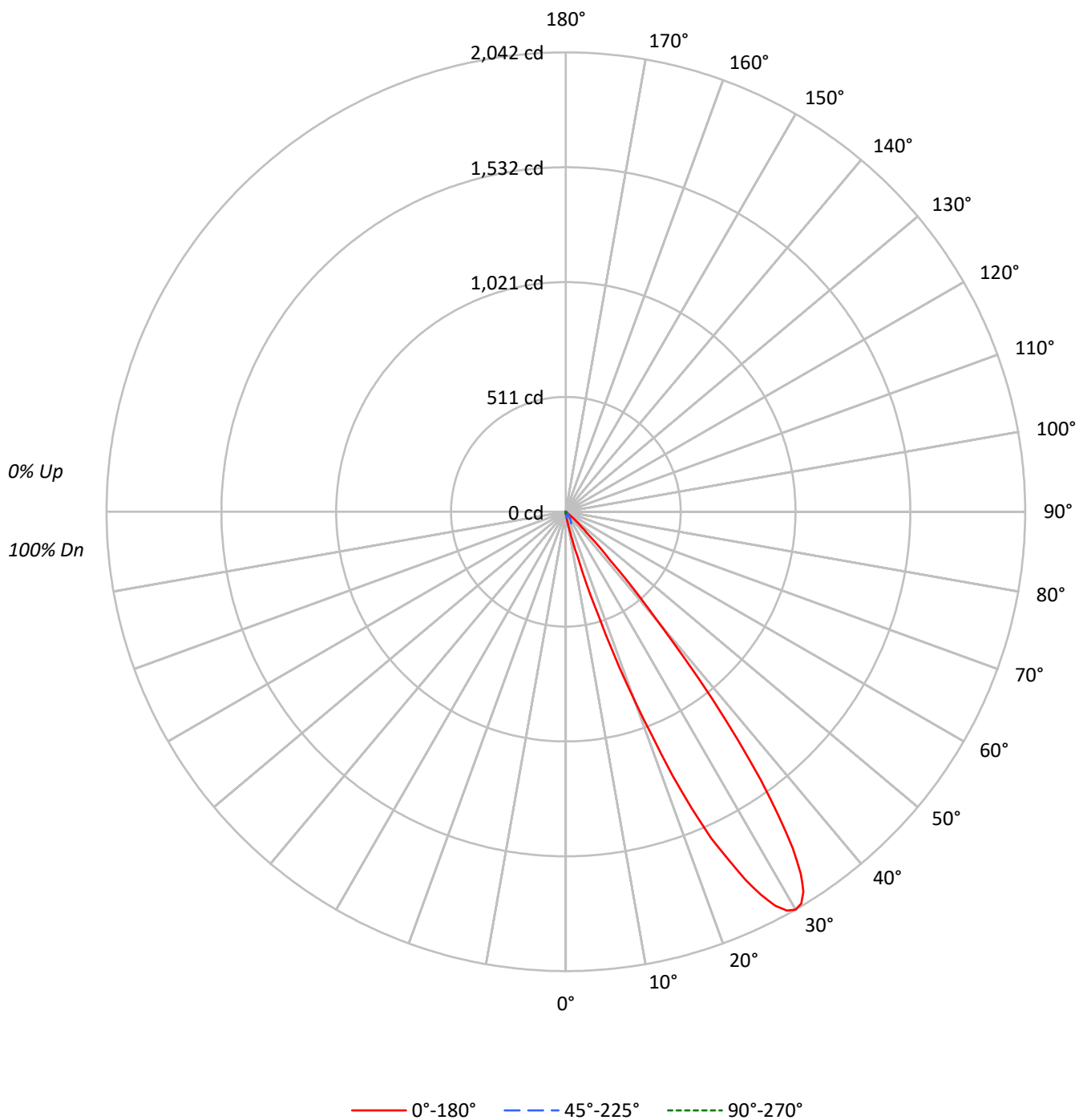
Lumens per Lamp: N/A
Luminaire Lumens: 216.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1306343

CATALOG NUMBER: P3SQAS02R159027DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1306343

CATALOG NUMBER: P3SQAS02R159027DE010 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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	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	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1326	1326	1326	1326	1326
5°	3855	2904	1141	467	311
10°	10003	4337	752	0	0
15°	40010	7078	410	0	0
20°	163482	10447	128	0	0
25°	323159	10356	0	0	0
30°	406163	8173	0	0	0
35°	346547	5004	0	0	0
40°	142671	1574	0	0	0
45°	30859	658	0	0	0
50°	3965	0	0	0	0
55°	330	0	60	0	0
60°	0	0	172	0	0
65°	0	0	204	0	0
70°	0	101	352	0	0
75°	0	133	466	0	0
80°	0	198	694	0	0
85°	0	395	1383	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 32296 cd/sqm

TEST NUMBER: P1306343

CATALOG NUMBER: P3SQAS02R159027DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	15.1	7.0
20°-30°	88.2	40.8
30°-40°	94.6	43.8
40°-50°	16.0	7.4
50°-60°	0.5	0.2
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.2	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°	104.4	48.3
0°-40°	199.0	92.1
0°-60°	215.5	99.7
0°-90°	216.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	216.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	22	17	7	3	2	3
15°	224	40	2	0	0	104
25°	1701	54	0	0	0	769
35°	1648	24	0	0	0	947
45°	127	3	0	0	0	150
55°	1	0	0	0	0	3
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1306343

CATALOG NUMBER: P3SQAS02R159027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	14.1	14.3	14.5	14.5	14.5	14.5	14.3	14.3	14.3	14.3	14.1
5°	22.3	22.3	22.3	22.3	22.3	22.3	22.0	22.0	22.0	22.0	22.0
7.5°	31.8	31.3	31.6	30.9	31.3	31.1	30.9	31.3	31.3	30.2	30.2
10°	57.2	57.0	54.7	55.2	55.6	55.4	55.4	54.1	53.8	52.9	52.0
12.5°	110.4	112.9	114.7	114.7	110.4	112.0	109.0	109.7	110.2	108.8	104.0
15°	224.4	228.5	224.2	228.3	226.7	220.8	214.2	205.3	208.7	202.6	200.6
17.5°	491.5	500.8	497.0	478.1	484.3	469.7	460.6	457.2	447.7	419.3	407.5
20°	892.0	903.3	892.6	870.6	877.7	850.2	843.1	836.5	794.3	778.8	729.3
21°	1060.5	1069.8	1073.9	1051.0	1036.9	1015.1	996.9	991.0	965.3	935.6	884.7
22°	1264.0	1253.1	1228.6	1231.8	1210.9	1192.9	1167.7	1143.9	1115.2	1073.7	1031.7
23°	1432.5	1419.8	1408.2	1394.2	1371.7	1359.0	1322.8	1296.7	1259.5	1214.9	1174.5
24°	1589.5	1570.0	1562.7	1537.7	1531.3	1502.7	1473.4	1439.4	1394.4	1346.9	1302.2
25°	1700.6	1703.5	1697.2	1694.2	1661.7	1632.4	1603.4	1550.9	1512.5	1470.5	1401.7
26°	1819.6	1820.9	1817.8	1796.0	1766.7	1738.0	1700.6	1654.9	1599.3	1552.7	1490.5
27°	1910.7	1905.2	1900.7	1874.8	1850.7	1814.6	1780.5	1726.5	1672.2	1616.8	1544.5
28°	1983.3	1973.1	1967.4	1945.2	1917.0	1872.7	1830.9	1780.5	1726.2	1666.7	1588.6
29°	2027.2	2016.3	2009.9	1985.4	1952.9	1914.1	1871.8	1816.4	1758.0	1691.7	1613.1
30°	2042.4	2036.0	2026.1	2000.6	1967.0	1926.6	1883.2	1823.0	1761.9	1694.0	1610.8
31°	2032.4	2024.2	2014.7	1987.2	1950.9	1912.3	1861.8	1798.7	1734.4	1669.7	1581.5
32°	1992.7	1987.7	1976.1	1939.3	1909.8	1859.8	1810.0	1751.0	1680.8	1611.3	1531.6
33°	1918.2	1910.0	1900.0	1866.4	1828.7	1780.7	1731.2	1670.8	1601.1	1527.7	1440.0
34°	1804.6	1794.1	1781.7	1759.2	1711.0	1669.4	1612.2	1541.6	1483.9	1413.5	1334.2
35°	1648.3	1633.1	1618.1	1601.1	1547.0	1508.6	1470.0	1408.5	1352.8	1286.5	1196.8
36°	1473.0	1467.1	1454.8	1409.8	1392.3	1340.1	1309.0	1238.3	1193.4	1128.4	1054.4
37°	1274.7	1239.9	1257.7	1232.4	1179.7	1163.4	1126.4	1065.7	1017.1	948.5	894.9
38°	1062.1	1039.4	1051.9	1026.4	998.9	961.2	933.1	888.8	834.3	780.4	729.6
39°	841.8	823.4	837.0	819.7	777.9	762.3	737.3	703.4	659.6	617.6	569.4
40°	634.6	611.0	629.2	604.6	585.6	559.9	547.2	516.1	488.8	463.6	432.9
42.5°	289.8	287.3	283.2	274.4	272.3	272.6	256.9	246.7	232.8	216.7	206.9
45°	126.7	129.9	132.6	127.7	127.4	124.7	123.8	117.0	114.2	109.0	102.7
47.5°	62.5	63.6	62.9	64.3	63.1	61.3	60.9	60.0	57.2	57.0	54.1
50°	14.8	14.5	14.5	14.8	14.5	14.5	14.3	13.9	13.6	13.9	13.2
52.5°	4.8	5.0	4.8	4.5	4.8	5.0	4.8	4.8	4.8	4.8	4.8
55°	1.1	1.1	1.1	1.1	1.1	1.1	0.9	0.9	1.1	1.1	1.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1306343

CATALOG NUMBER: P3SQAS02R159027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1306343

CATALOG NUMBER: P3SQAS02R159027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
2.5°	13.9	11.8	9.8	7.7	5.7	4.5	4.3	4.1
5°	20.9	16.8	11.1	6.6	3.9	2.7	2.0	1.8
7.5°	28.2	20.9	12.3	5.5	2.7	1.1	0.5	0.2
10°	40.4	24.8	12.7	4.3	1.4	0.0	0.0	0.0
12.5°	79.3	28.4	12.5	3.4	0.2	0.0	0.0	0.0
15°	131.7	39.7	11.6	2.3	0.0	0.0	0.0	0.0
17.5°	215.8	51.3	10.0	1.6	0.0	0.0	0.0	0.0
20°	334.6	57.0	7.7	0.7	0.0	0.0	0.0	0.0
21°	392.3	57.5	6.8	0.5	0.0	0.0	0.0	0.0
22°	442.2	57.5	5.9	0.2	0.0	0.0	0.0	0.0
23°	488.6	56.8	5.2	0.0	0.0	0.0	0.0	0.0
24°	526.7	55.9	4.8	0.0	0.0	0.0	0.0	0.0
25°	555.3	54.5	4.3	0.0	0.0	0.0	0.0	0.0
26°	568.5	52.7	3.6	0.0	0.0	0.0	0.0	0.0
27°	575.1	50.2	3.2	0.0	0.0	0.0	0.0	0.0
28°	570.6	47.5	2.7	0.0	0.0	0.0	0.0	0.0
29°	559.2	44.5	2.0	0.0	0.0	0.0	0.0	0.0
30°	544.4	41.1	1.6	0.0	0.0	0.0	0.0	0.0
31°	522.9	37.7	1.1	0.0	0.0	0.0	0.0	0.0
32°	493.3	34.3	0.9	0.0	0.0	0.0	0.0	0.0
33°	453.8	30.7	0.5	0.0	0.0	0.0	0.0	0.0
34°	405.0	27.0	0.2	0.0	0.0	0.0	0.0	0.0
35°	350.2	23.8	0.0	0.0	0.0	0.0	0.0	0.0
36°	303.2	20.4	0.0	0.0	0.0	0.0	0.0	0.0
37°	256.0	16.4	0.0	0.0	0.0	0.0	0.0	0.0
38°	214.4	12.9	0.0	0.0	0.0	0.0	0.0	0.0
39°	177.4	10.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	147.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	81.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	49.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	28.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.5	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.5	0.5	0.2	0.0	0.0	0.0
67.5°	0.0	0.0	0.5	0.7	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0



TEST NUMBER: P1306343

CATALOG NUMBER: P3SQAS02R159027DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)