

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: P1317650

Luminaire Tested: P3SQAS05R159835DE010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R159835DE010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

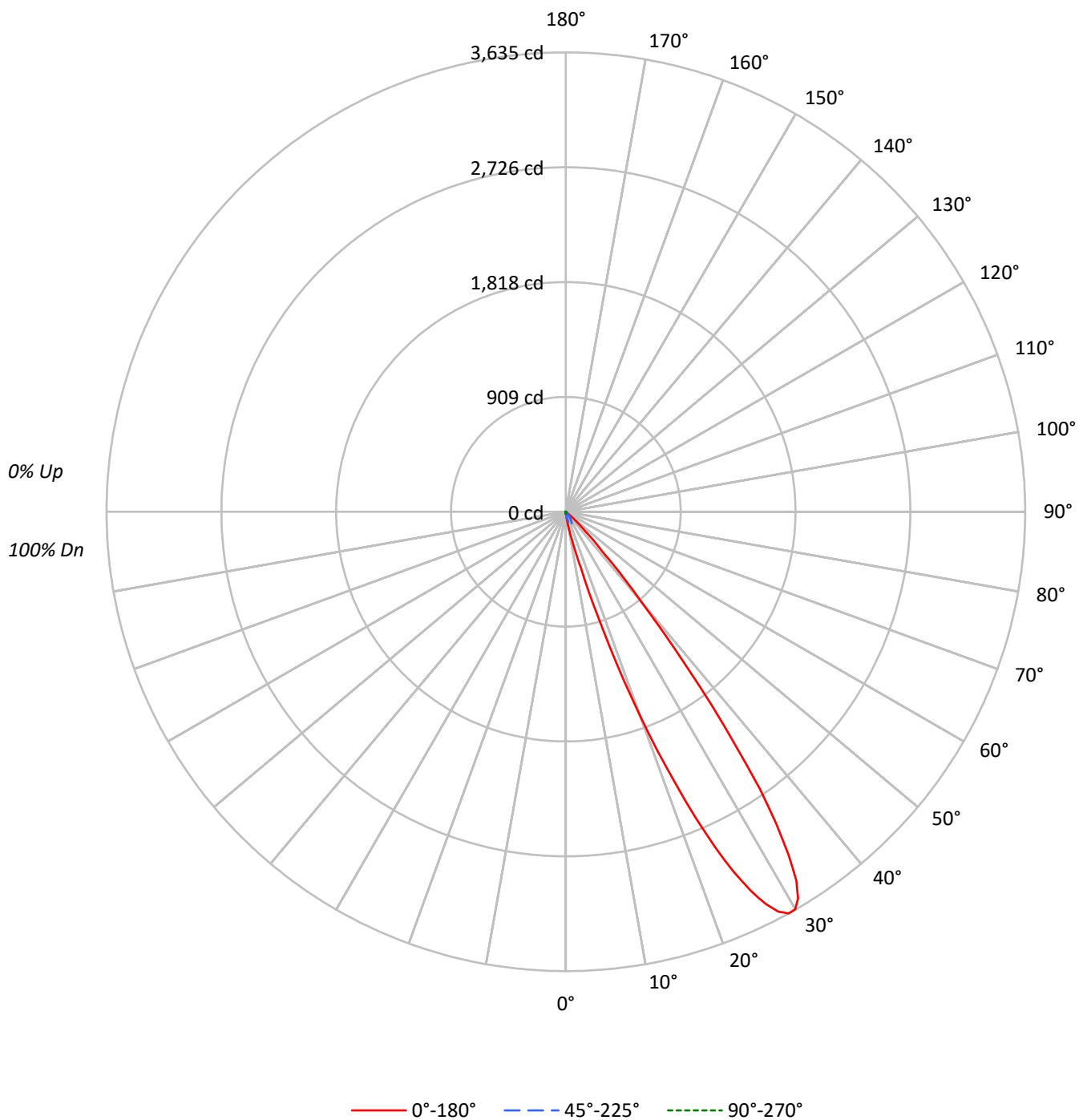
Lumens per Lamp: N/A
Luminaire Lumens: 397.0 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1317650

CATALOG NUMBER: P3SQAS05R159835DE010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1317650

CATALOG NUMBER: P3SQAS05R159835DE010 E3SQCA301MW

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	47	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2256	2256	2256	2256	2256
5°	4875	3613	2144	1141	934
10°	21615	6820	1696	472	332
15°	81732	15762	1177	214	143
20°	314317	22231	715	73	73
25°	597710	20846	361	0	0
30°	722061	16824	159	0	0
35°	563162	11458	84	0	0
40°	205509	5643	90	0	90
45°	52755	1705	97	0	195
50°	8895	214	107	107	322
55°	1171	0	240	360	570
60°	138	138	413	517	792
65°	163	163	611	774	937
70°	201	201	755	755	957
75°	266	266	998	799	998
80°	0	397	1190	793	1190
85°	0	790	2371	790	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 52755 cd/sqm

TEST NUMBER: P1317650

CATALOG NUMBER: P3SQAS05R159835DE010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	30.4	7.7
20°-30°	168.7	42.5
30°-40°	163.0	41.1
40°-50°	28.4	7.1
50°-60°	2.0	0.5
60°-70°	1.2	0.3
70°-80°	1.0	0.2
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°	200.9	50.6
0°-40°	364.0	91.7
0°-60°	394.4	99.3
0°-90°	397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	397.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	28	21	12	7	5	6
15°	458	88	7	1	1	204
25°	3145	110	2	0	0	1406
35°	2679	54	0	0	0	1540
45°	217	7	0	0	1	233
55°	4	0	1	1	2	8
65°	0	0	2	2	2	0
75°	0	0	2	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1317650

CATALOG NUMBER: P3SQAS05R159835DE010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
2.5°	19.3	18.5	18.9	18.9	18.9	18.9	18.9	18.2	18.2	18.5	16.6
5°	28.2	28.2	27.8	28.2	28.2	27.8	27.0	26.6	26.6	25.9	20.9
7.5°	56.4	55.6	55.6	54.8	51.0	49.8	49.0	47.1	43.6	42.9	27.0
10°	123.6	124.0	121.3	117.8	117.4	111.6	109.7	106.2	99.6	93.1	39.0
12.5°	224.4	219.4	212.8	213.2	202.0	198.1	189.2	179.6	169.5	159.1	64.1
15°	458.4	444.1	452.6	431.8	408.2	381.5	354.5	320.5	291.6	260.7	88.4
17.5°	965.5	979.4	955.8	866.6	811.8	747.3	656.5	568.8	493.9	433.7	108.1
20°	1715.0	1735.5	1655.6	1577.9	1444.7	1299.5	1148.1	976.7	812.5	670.4	121.3
21°	2028.2	2015.9	1983.0	1858.7	1705.0	1536.6	1351.2	1162.0	963.1	778.5	122.4
22°	2331.0	2336.8	2260.3	2130.2	1970.3	1783.8	1557.5	1323.8	1109.5	866.6	120.5
23°	2632.6	2651.1	2550.0	2427.9	2226.7	2016.3	1754.4	1502.2	1237.3	967.4	116.6
24°	2911.8	2899.1	2830.7	2677.0	2461.9	2215.5	1943.6	1637.8	1342.4	1053.5	113.5
25°	3145.4	3143.9	3036.5	2887.1	2641.1	2368.1	2068.4	1748.6	1432.3	1111.8	109.7
26°	3336.6	3305.3	3220.8	3038.5	2795.6	2507.5	2170.7	1829.3	1482.9	1141.2	105.8
27°	3484.1	3461.7	3348.2	3158.6	2904.9	2586.3	2236.4	1869.5	1506.1	1150.8	100.8
28°	3583.4	3559.0	3438.2	3242.8	2965.1	2635.7	2271.1	1886.5	1506.1	1141.6	96.2
29°	3634.7	3601.5	3481.0	3271.7	2979.0	2641.5	2262.6	1869.9	1482.5	1113.0	90.8
30°	3630.9	3589.6	3463.3	3245.5	2937.7	2594.0	2215.1	1810.0	1429.3	1070.5	84.6
31°	3568.3	3522.0	3381.0	3156.6	2852.3	2504.4	2125.5	1729.7	1356.3	1015.3	78.4
32°	3441.3	3382.6	3245.1	3021.5	2721.0	2370.4	1995.4	1605.7	1247.0	934.6	71.8
33°	3234.3	3175.2	3027.7	2818.0	2543.4	2200.5	1822.8	1472.5	1122.6	838.4	66.4
34°	2975.1	2921.1	2794.0	2582.8	2319.4	1985.4	1624.3	1288.3	993.6	743.0	60.6
35°	2678.6	2592.4	2477.4	2310.1	2053.3	1717.3	1409.9	1116.8	860.8	643.0	54.5
36°	2277.3	2292.8	2170.7	1966.0	1753.3	1489.9	1194.8	931.1	719.8	548.0	49.0
37°	1921.6	1897.3	1819.7	1661.4	1476.0	1214.5	1001.4	789.4	605.5	463.4	43.3
38°	1550.1	1555.5	1479.5	1357.8	1174.0	998.7	806.0	648.4	506.7	394.3	37.8
39°	1213.4	1209.1	1188.7	1075.9	909.5	794.4	653.0	537.6	422.1	332.5	32.1
40°	914.1	921.0	873.2	805.2	708.3	613.6	520.2	428.7	349.1	280.4	25.1
42.5°	444.5	455.3	423.6	406.3	363.4	326.3	275.3	224.8	191.2	165.3	11.2
45°	216.6	210.5	207.8	199.3	189.2	169.1	149.8	128.6	112.4	96.9	7.0
47.5°	110.8	107.7	107.7	104.3	100.8	94.2	84.6	77.6	69.9	60.2	2.7
50°	33.2	32.8	32.4	32.8	31.7	32.8	33.6	34.0	30.9	30.5	0.8
52.5°	13.1	13.5	13.1	14.3	14.3	13.9	14.3	13.9	13.5	12.0	0.0
55°	3.9	3.9	3.9	3.9	3.9	3.9	4.2	4.6	4.2	4.6	0.0
57.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



TEST NUMBER: P1317650

CATALOG NUMBER: P3SQAS05R159835DE010 E3SQCA301MW

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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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: P1317650

CATALOG NUMBER: P3SQAS05R159835DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	13.1	13.1	13.1	13.1	13.1	13.1
2.5°	15.4	13.5	11.2	9.3	8.5	8.1
5°	16.6	12.4	8.5	6.6	5.8	5.4
7.5°	17.8	11.2	6.6	4.6	3.5	3.1
10°	18.5	9.7	5.0	2.7	1.9	1.9
12.5°	18.5	7.7	3.5	1.5	1.2	1.2
15°	18.2	6.6	2.3	1.2	0.8	0.8
17.5°	17.8	5.0	1.5	0.8	0.4	0.8
20°	16.6	3.9	0.8	0.4	0.4	0.4
21°	16.2	3.5	0.8	0.4	0.4	0.4
22°	15.4	3.1	0.4	0.0	0.4	0.4
23°	14.7	2.3	0.4	0.0	0.0	0.0
24°	13.5	1.9	0.4	0.0	0.0	0.0
25°	12.7	1.9	0.4	0.0	0.0	0.0
26°	12.0	1.2	0.0	0.0	0.0	0.0
27°	10.8	0.8	0.0	0.0	0.0	0.0
28°	10.0	0.8	0.0	0.0	0.0	0.0
29°	8.9	0.8	0.0	0.0	0.0	0.0
30°	7.7	0.8	0.0	0.0	0.0	0.0
31°	6.2	0.4	0.0	0.0	0.0	0.0
32°	5.0	0.4	0.0	0.0	0.0	0.0
33°	3.5	0.4	0.0	0.0	0.0	0.0
34°	2.3	0.4	0.0	0.0	0.0	0.0
35°	1.9	0.4	0.0	0.0	0.0	0.0
36°	1.2	0.4	0.0	0.0	0.0	0.4
37°	1.2	0.4	0.0	0.0	0.0	0.4
38°	0.8	0.4	0.0	0.0	0.0	0.4
39°	0.4	0.4	0.0	0.0	0.0	0.4
40°	0.4	0.4	0.0	0.0	0.0	0.4
42.5°	0.0	0.4	0.0	0.0	0.4	0.8
45°	0.0	0.4	0.0	0.0	0.4	0.8
47.5°	0.0	0.4	0.0	0.0	0.8	0.8
50°	0.0	0.4	0.4	0.4	0.8	1.2
52.5°	0.0	0.8	0.4	0.8	1.2	1.5
55°	0.4	0.8	0.8	1.2	1.5	1.9
57.5°	0.4	1.2	1.2	1.5	1.9	1.9
60°	0.8	1.2	1.5	1.5	2.3	2.3
62.5°	0.8	1.5	1.5	1.5	2.3	2.3
65°	0.8	1.5	1.5	1.9	2.3	2.3
67.5°	0.8	1.5	1.5	1.5	1.9	2.3
70°	0.8	1.5	1.2	1.5	1.9	1.9
72.5°	0.8	1.5	1.2	1.2	1.5	1.9
75°	0.8	1.5	1.2	1.2	1.5	1.5
77.5°	0.8	1.2	1.2	0.8	1.2	1.2
80°	0.8	1.2	0.8	0.8	1.2	1.2



TEST NUMBER: P1317650

CATALOG NUMBER: P3SQAS05R159835DE010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.8	1.2	0.8	0.4	0.8	0.8
85°	0.8	1.2	0.8	0.4	0.4	0.4
87.5°	0.8	1.2	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)