

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: P1313503

Luminaire Tested: P3SQAS17R159730DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313503
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: P3SQAS17R159730DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

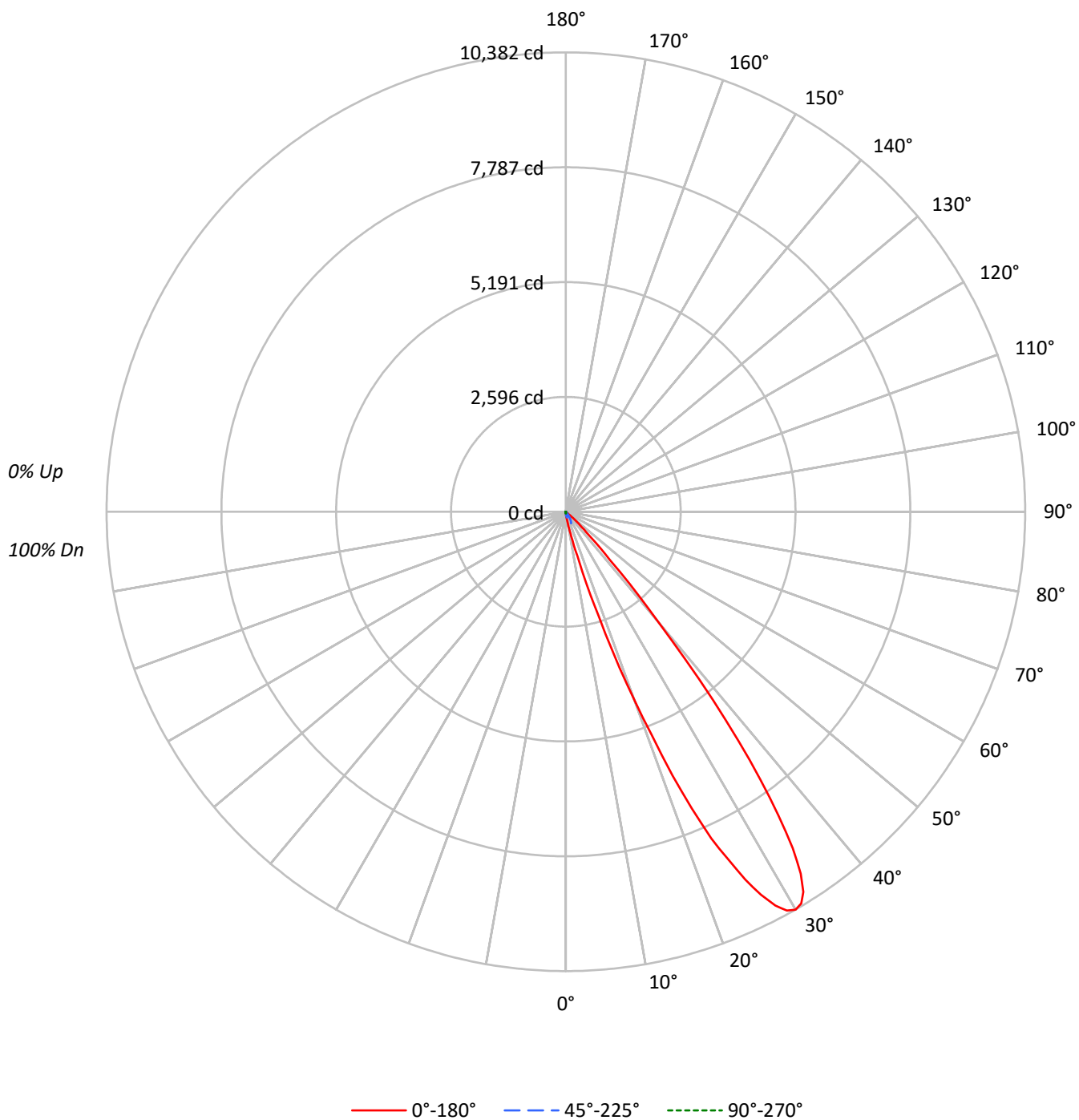
Lumens per Lamp: N/A
Luminaire Lumens: 1098.0 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: P1313503

CATALOG NUMBER: P3SQAS17R159730DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1313503

CATALOG NUMBER: P3SQAS17R159730DE010 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°	6768	6768	6768	6768	6768
5°	19570	14764	5791	2403	1591
10°	50890	22017	3830	0	0
15°	203402	36034	2050	0	0
20°	830989	53113	641	0	0
25°	1642685	52656	0	0	0
30°	2064662	41563	0	0	0
35°	1761643	25482	0	0	0
40°	725272	8049	0	0	0
45°	156925	3385	0	0	0
50°	20095	0	0	0	0
55°	1742	0	360	0	0
60°	0	0	792	0	0
65°	0	0	937	0	0
70°	0	604	1762	0	0
75°	0	799	2329	0	0
80°	0	1190	3471	0	0
85°	0	2371	6916	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 164232 cd/sqm

TEST NUMBER: P1313503

CATALOG NUMBER: P3SQAS17R159730DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.5
10°-20°	77.0	7.0
20°-30°	448.5	40.8
30°-40°	480.9	43.8
40°-50°	81.2	7.4
50°-60°	2.5	0.2
60°-70°	0.7	0.1
70°-80°	1.1	0.1
80°-90°	1.0	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°	530.7	48.3
0°-40°	1011.6	92.1
0°-60°	1095.2	99.7
0°-90°	1098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1098.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	113	85	34	14	9	16
15°	1141	202	12	0	0	528
25°	8644	277	0	0	0	3911
35°	8379	121	0	0	0	4815
45°	644	14	0	0	0	761
55°	6	0	1	0	0	15
65°	0	0	2	0	0	0
75°	0	1	4	0	0	0
85°	0	1	4	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1313503

CATALOG NUMBER: P3SQAS17R159730DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
2.5°	71.6	72.7	73.9	73.9	73.9	73.9	72.7	72.7	72.7	72.7	71.6
5°	113.2	113.2	113.2	113.2	113.2	113.2	112.0	112.0	112.0	112.0	112.0
7.5°	161.6	159.3	160.5	157.0	159.3	158.2	157.0	159.3	159.3	153.6	153.6
10°	291.0	289.8	278.3	280.6	282.9	281.7	281.7	274.8	273.6	269.0	264.4
12.5°	561.1	573.8	583.1	583.1	561.1	569.2	554.2	557.7	560.0	553.1	528.8
15°	1140.8	1161.5	1139.6	1160.4	1152.3	1122.3	1088.8	1043.8	1061.1	1029.9	1019.5
17.5°	2498.6	2545.9	2526.3	2430.4	2461.6	2387.7	2341.5	2324.2	2275.7	2131.4	2071.4
20°	4534.1	4591.9	4537.6	4425.6	4461.4	4321.7	4285.9	4252.4	4037.7	3959.1	3707.4
21°	5390.9	5438.2	5459.0	5342.4	5270.8	5159.9	5067.6	5037.5	4907.1	4755.8	4497.2
22°	6425.4	6370.0	6245.3	6261.4	6155.2	6064.0	5935.8	5814.6	5669.1	5457.8	5244.2
23°	7282.1	7217.4	7158.6	7087.0	6972.7	6908.0	6724.4	6591.6	6402.3	6176.0	5970.5
24°	8079.9	7980.6	7943.7	7816.7	7784.4	7638.9	7489.9	7316.7	7088.1	6846.8	6619.4
25°	8644.5	8659.5	8627.2	8612.2	8447.1	8298.2	8150.4	7883.7	7688.5	7474.9	7125.1
26°	9249.6	9256.5	9240.3	9129.5	8980.5	8835.0	8644.5	8412.5	8129.6	7892.9	7576.5
27°	9712.5	9684.8	9661.7	9530.1	9407.7	9224.2	9051.0	8776.2	8500.2	8218.5	7851.3
28°	10082.0	10030.1	10001.2	9888.0	9744.9	9519.7	9307.3	9051.0	8775.0	8472.5	8075.3
29°	10304.9	10249.4	10217.1	10092.4	9927.3	9729.9	9515.1	9233.4	8936.7	8599.5	8200.0
30°	10382.2	10349.9	10299.1	10169.8	9998.9	9793.4	9572.8	9266.9	8956.3	8611.1	8188.5
31°	10331.4	10289.9	10241.4	10101.7	9916.9	9720.6	9464.3	9143.3	8816.6	8487.5	8039.5
32°	10129.4	10104.0	10045.1	9858.0	9707.9	9453.9	9201.1	8900.9	8544.1	8190.8	7785.5
33°	9750.7	9709.1	9658.3	9487.4	9295.7	9052.1	8800.4	8493.3	8138.8	7765.9	7320.2
34°	9173.3	9120.2	9056.7	8942.4	8697.7	8486.4	8195.4	7836.3	7543.0	7185.1	6782.2
35°	8379.0	8301.6	8225.4	8138.8	7864.0	7668.9	7472.6	7159.7	6876.8	6539.7	6083.6
36°	7487.6	7457.6	7395.3	7166.6	7077.7	6812.2	6654.0	6294.9	6066.3	5736.1	5359.7
37°	6479.7	6303.0	6393.1	6264.9	5997.0	5913.9	5725.7	5417.4	5170.3	4821.6	4549.1
38°	5398.9	5283.5	5347.0	5217.7	5078.0	4886.3	4743.1	4518.0	4240.9	3967.2	3708.6
39°	4279.0	4185.4	4254.7	4167.0	3954.5	3874.9	3747.9	3575.8	3353.0	3139.4	2894.6
40°	3226.0	3105.9	3198.3	3073.6	2976.6	2846.1	2781.4	2623.3	2484.7	2356.6	2200.7
42.5°	1473.3	1460.6	1439.8	1394.8	1384.4	1385.5	1305.9	1253.9	1183.5	1101.5	1051.8
45°	644.3	660.4	674.3	648.9	647.7	633.9	629.3	594.6	580.8	554.2	521.9
47.5°	317.5	323.3	319.8	326.8	321.0	311.7	309.4	304.8	291.0	289.8	274.8
50°	75.0	73.9	73.9	75.0	73.9	73.9	72.7	70.4	69.3	70.4	67.0
52.5°	24.2	25.4	24.2	23.1	24.2	25.4	24.2	24.2	24.2	24.2	24.2
55°	5.8	5.8	5.8	5.8	5.8	5.8	4.6	4.6	5.8	5.8	5.8
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: P1313503

CATALOG NUMBER: P3SQAS17R159730DE010 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: P1313503

CATALOG NUMBER: P3SQAS17R159730DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	39.3	39.3	39.3	39.3	39.3	39.3	39.3	39.3
2.5°	70.4	60.0	49.6	39.3	28.9	23.1	21.9	20.8
5°	106.2	85.4	56.6	33.5	19.6	13.9	10.4	9.2
7.5°	143.2	106.2	62.3	27.7	13.9	5.8	2.3	1.2
10°	205.5	125.9	64.7	21.9	6.9	0.0	0.0	0.0
12.5°	403.0	144.3	63.5	17.3	1.2	0.0	0.0	0.0
15°	669.7	202.1	58.9	11.5	0.0	0.0	0.0	0.0
17.5°	1096.9	260.9	50.8	8.1	0.0	0.0	0.0	0.0
20°	1700.7	289.8	39.3	3.5	0.0	0.0	0.0	0.0
21°	1994.0	292.1	34.6	2.3	0.0	0.0	0.0	0.0
22°	2248.0	292.1	30.0	1.2	0.0	0.0	0.0	0.0
23°	2483.6	288.7	26.6	0.0	0.0	0.0	0.0	0.0
24°	2677.5	284.0	24.2	0.0	0.0	0.0	0.0	0.0
25°	2823.0	277.1	21.9	0.0	0.0	0.0	0.0	0.0
26°	2890.0	267.9	18.5	0.0	0.0	0.0	0.0	0.0
27°	2923.5	255.2	16.2	0.0	0.0	0.0	0.0	0.0
28°	2900.4	241.3	13.9	0.0	0.0	0.0	0.0	0.0
29°	2842.6	226.3	10.4	0.0	0.0	0.0	0.0	0.0
30°	2767.6	209.0	8.1	0.0	0.0	0.0	0.0	0.0
31°	2657.9	191.7	5.8	0.0	0.0	0.0	0.0	0.0
32°	2507.8	174.3	4.6	0.0	0.0	0.0	0.0	0.0
33°	2306.9	155.9	2.3	0.0	0.0	0.0	0.0	0.0
34°	2058.7	137.4	1.2	0.0	0.0	0.0	0.0	0.0
35°	1780.4	121.2	0.0	0.0	0.0	0.0	0.0	0.0
36°	1541.4	103.9	0.0	0.0	0.0	0.0	0.0	0.0
37°	1301.2	83.1	0.0	0.0	0.0	0.0	0.0	0.0
38°	1089.9	65.8	0.0	0.0	0.0	0.0	0.0	0.0
39°	901.7	53.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	747.0	35.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	413.3	24.2	0.0	0.0	0.0	0.0	0.0	0.0
45°	250.5	13.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	145.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	55.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.6	0.0	0.0	1.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.2	2.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.2	2.3	1.2	0.0	0.0	0.0
65°	0.0	0.0	2.3	2.3	1.2	0.0	0.0	0.0
67.5°	0.0	0.0	2.3	3.5	1.2	0.0	0.0	0.0
70°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
72.5°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
75°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
77.5°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
80°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0



TEST NUMBER: P1313503

CATALOG NUMBER: P3SQAS17R159730DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
85°	0.0	1.2	2.3	3.5	1.2	0.0	0.0	0.0
87.5°	0.0	1.2	2.3	3.5	1.2	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)