

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: P1309265

Luminaire Tested: P3SQAS17R259035DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R259035DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

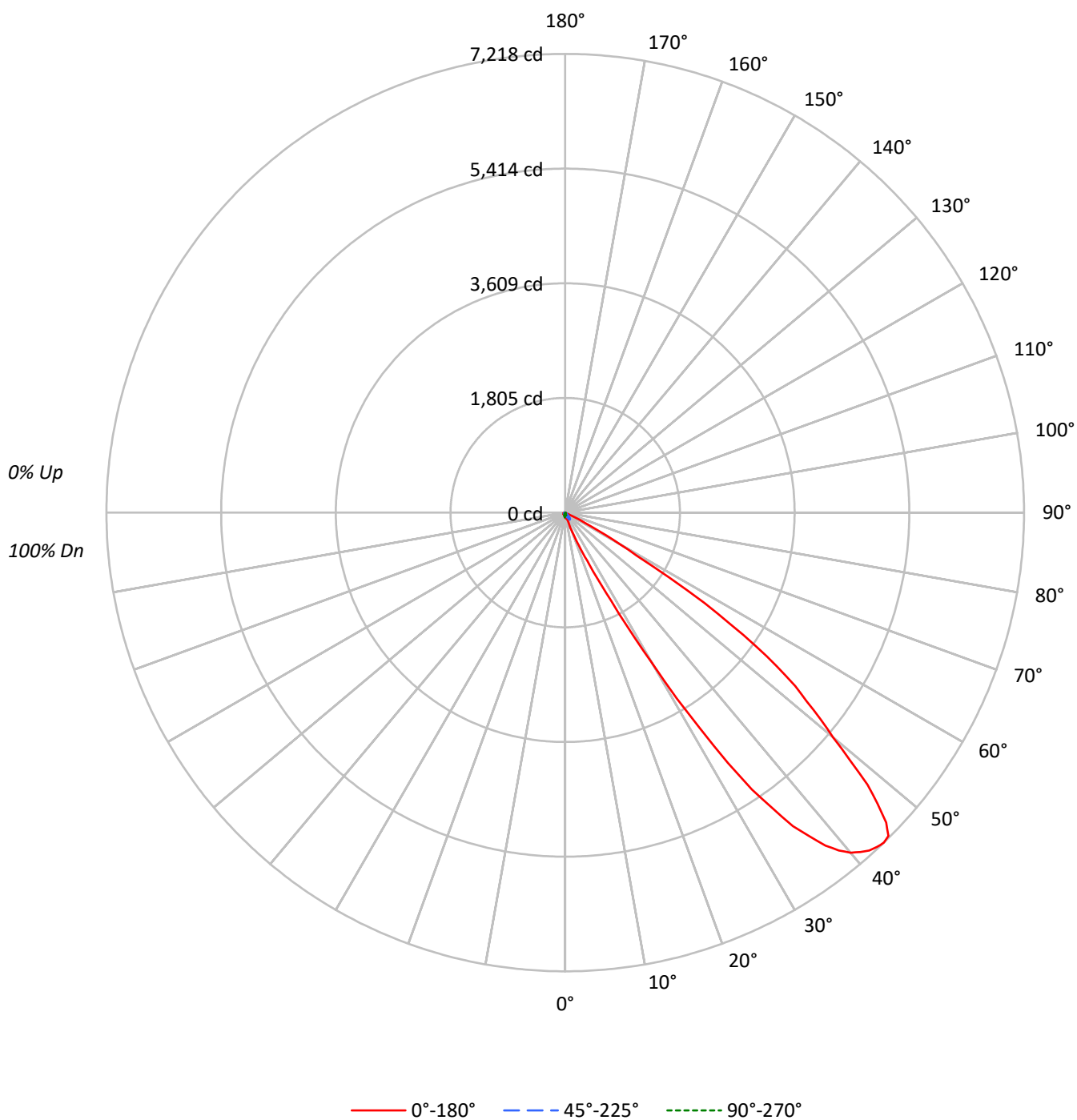
Lumens per Lamp: N/A
Luminaire Lumens: 1505.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13227	13227	13227	13227	13227
5°	15110	14418	12828	11445	11220
10°	15057	13658	10878	9496	9496
15°	16760	11803	8505	8023	8505
20°	59216	11656	6561	6800	7533
25°	170378	14841	5283	6290	7297
30°	543599	22909	4216	6065	7378
35°	1190618	27016	3616	5845	7527
40°	1570597	24416	2968	5958	8049
45°	1751510	17098	2898	6454	8719
50°	1474343	8869	2840	6752	9592
55°	1102288	3573	2792	7567	10749
60°	341207	896	2721	8198	11849
65°	29137	0	3219	8639	12959
70°	2014	655	3323	10021	14653
75°	1730	865	4392	10580	16769
80°	1289	1289	6546	11802	19737
85°	2569	2569	10473	13042	20946

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1751510 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	0.5
10°-20°	17.7	1.2
20°-30°	83.3	5.5
30°-40°	400.9	26.6
40°-50°	628.4	41.8
50°-60°	322.1	21.4
60°-70°	30.4	2.0
70°-80°	10.2	0.7
80°-90°	5.1	0.3
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°	107.9	7.2
0°-40°	508.8	33.8
0°-60°	1459.3	97.0
0°-90°	1505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	77	77	77	77	77	
5°	87	83	74	66	65	8
15°	94	66	48	45	48	40
25°	897	78	28	33	38	556
35°	5663	128	17	28	36	3438
45°	7191	70	12	26	36	5262
55°	3671	12	9	25	36	3056
65°	72	0	8	21	32	224
75°	3	1	7	16	25	3
85°	1	1	5	7	11	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
2.5°	83.4	83.4	83.4	83.4	83.4	83.4	82.1	82.1	83.4	82.1	82.1
5°	87.4	87.4	87.4	87.4	87.4	87.4	87.4	86.1	86.1	86.1	83.4
7.5°	88.7	87.4	87.4	87.4	87.4	87.4	87.4	87.4	86.1	86.1	82.1
10°	86.1	86.1	86.1	86.1	84.8	84.8	84.8	83.4	83.4	83.4	78.1
12.5°	86.1	86.1	86.1	86.1	84.8	84.8	83.4	83.4	82.1	80.8	71.5
15°	94.0	94.0	94.0	92.7	91.4	90.1	88.7	87.4	86.1	83.4	66.2
17.5°	137.7	133.8	132.4	127.1	120.5	113.9	108.6	103.3	98.0	94.0	63.6
20°	323.1	321.8	315.2	299.3	282.1	262.2	242.4	219.8	188.1	166.9	63.6
22.5°	560.2	552.3	540.3	528.4	498.0	462.2	425.1	382.7	341.7	298.0	67.5
25°	896.6	915.1	875.4	843.6	790.6	725.8	655.6	597.3	523.1	454.3	78.1
27.5°	1558.8	1570.7	1492.6	1389.3	1266.1	1129.7	997.2	897.9	773.4	659.5	98.0
30°	2733.5	2745.4	2614.3	2394.5	2140.2	1916.4	1613.1	1346.9	1101.9	912.5	115.2
31°	3411.6	3318.9	3166.6	2953.3	2631.5	2293.8	1929.6	1607.8	1297.9	1048.9	120.5
32°	4000.9	3993.0	3815.5	3492.3	3169.2	2752.0	2300.4	1880.6	1500.5	1186.6	124.5
33°	4696.2	4643.2	4392.9	4088.3	3660.5	3240.7	2658.0	2178.6	1708.4	1340.3	127.1
34°	5253.8	5110.7	5007.4	4659.1	4207.5	3672.5	3048.7	2493.8	1968.0	1488.6	128.5
35°	5663.0	5632.5	5431.2	5106.7	4647.2	4100.2	3469.8	2820.9	2185.2	1660.8	128.5
36°	6096.1	6002.0	5806.0	5512.0	5064.4	4498.9	3791.7	3104.3	2438.2	1815.7	127.1
37°	6367.5	6311.9	6117.2	5814.0	5375.6	4835.3	4151.9	3403.6	2639.5	1970.7	124.5
38°	6647.0	6534.4	6342.4	6052.3	5621.9	5114.7	4412.8	3634.1	2824.9	2107.1	120.5
39°	6840.3	6723.8	6527.8	6239.1	5817.9	5314.7	4619.4	3830.1	2986.4	2209.0	115.2
40°	6986.0	6873.5	6674.8	6378.1	5962.3	5472.3	4791.6	4003.6	3121.5	2297.8	108.6
41°	7076.1	6971.5	6774.1	6478.8	6061.6	5562.3	4904.1	4116.1	3212.9	2357.4	102.0
42°	7151.6	7044.3	6843.0	6541.0	6122.5	5639.1	4973.0	4187.6	3275.2	2387.8	96.7
43°	7193.9	7086.7	6890.7	6582.1	6159.6	5674.9	5010.1	4220.7	3296.3	2383.9	87.4
44°	7217.8	7106.5	6909.2	6600.6	6175.5	5684.2	5012.7	4214.1	3281.8	2352.1	79.5
45°	7191.3	7081.4	6890.7	6582.1	6147.7	5655.0	4986.2	4178.4	3226.2	2289.8	70.2
46°	7019.1	6934.4	6759.6	6476.1	6060.3	5580.9	4918.7	4109.5	3140.1	2213.0	59.6
47°	6715.9	6648.3	6478.8	6268.2	5892.1	5444.5	4794.2	3978.4	3019.6	2097.8	47.7
48°	6399.3	6300.0	6142.4	5926.5	5608.7	5199.5	4588.9	3786.4	2836.8	1946.8	42.4
49°	5931.8	5873.6	5734.5	5493.5	5229.9	4869.7	4298.9	3540.0	2613.0	1782.6	37.1
50°	5502.7	5463.0	5268.3	5090.9	4811.4	4475.0	3905.6	3215.6	2334.9	1578.6	33.1
51°	5167.7	5120.0	4979.6	4758.4	4460.5	4069.8	3533.4	2794.4	2015.7	1336.3	26.5
52°	4818.0	4791.6	4667.1	4439.3	4146.6	3757.2	3171.9	2436.8	1705.8	1129.7	21.2
53°	4532.0	4493.6	4341.3	4138.6	3822.1	3419.5	2779.8	2104.4	1444.9	949.6	18.5
54°	4114.8	4098.9	4000.9	3789.0	3446.0	3007.6	2424.9	1772.0	1205.2	805.2	15.9
55°	3671.1	3618.2	3518.8	3350.6	3035.4	2626.2	2014.4	1468.7	974.7	678.1	11.9
56°	3130.8	3128.1	2950.7	2810.3	2530.9	2096.5	1609.1	1146.9	792.0	565.5	10.6
57°	2614.3	2530.9	2360.0	2221.0	1920.3	1590.6	1194.6	859.5	619.8	458.2	7.9
58°	1933.6	1889.9	1844.8	1640.9	1362.8	1127.0	852.9	603.9	458.2	349.6	5.3
59°	1312.4	1311.1	1258.1	1103.2	942.9	701.9	532.4	410.6	315.2	256.9	4.0
60°	990.6	966.8	860.8	758.9	593.3	443.7	315.2	242.4	196.0	165.5	2.6
62.5°	347.0	360.2	316.5	262.2	200.0	164.2	125.8	102.0	83.4	67.5	0.0
65°	71.5	78.1	67.5	63.6	50.3	43.7	38.4	33.1	27.8	23.8	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	9.3	7.9	7.9	7.9	6.6	6.6	6.6	6.6	5.3	5.3	1.3
70°	4.0	4.0	4.0	4.0	4.0	4.0	2.6	2.6	2.6	2.6	1.3
72.5°	4.0	4.0	4.0	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6
85°	1.3	1.3	1.3	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	76.8	76.8	76.8	76.8	76.8	76.8
2.5°	80.8	78.1	74.2	72.8	71.5	71.5
5°	79.5	74.2	70.2	66.2	64.9	64.9
7.5°	75.5	68.9	63.6	60.9	59.6	58.3
10°	71.5	62.2	56.9	54.3	54.3	54.3
12.5°	63.6	55.6	50.3	49.0	50.3	50.3
15°	56.9	47.7	45.0	45.0	46.4	47.7
17.5°	49.0	42.4	39.7	41.1	42.4	43.7
20°	43.7	35.8	35.8	37.1	41.1	41.1
22.5°	38.4	31.8	31.8	35.8	38.4	39.7
25°	34.4	27.8	29.1	33.1	37.1	38.4
27.5°	29.1	23.8	26.5	31.8	35.8	37.1
30°	25.2	21.2	25.2	30.5	34.4	37.1
31°	23.8	19.9	25.2	29.1	34.4	37.1
32°	21.2	19.9	23.8	29.1	34.4	35.8
33°	19.9	18.5	23.8	29.1	34.4	35.8
34°	18.5	17.2	22.5	29.1	34.4	35.8
35°	15.9	17.2	22.5	27.8	33.1	35.8
36°	14.6	15.9	22.5	27.8	33.1	35.8
37°	13.2	15.9	21.2	27.8	33.1	35.8
38°	11.9	14.6	21.2	27.8	33.1	35.8
39°	10.6	14.6	19.9	27.8	33.1	35.8
40°	9.3	13.2	19.9	26.5	33.1	35.8
41°	9.3	13.2	19.9	26.5	33.1	35.8
42°	7.9	13.2	19.9	26.5	33.1	35.8
43°	6.6	11.9	19.9	26.5	33.1	35.8
44°	5.3	11.9	18.5	26.5	33.1	35.8
45°	5.3	11.9	18.5	26.5	33.1	35.8
46°	4.0	10.6	18.5	26.5	33.1	35.8
47°	2.6	10.6	18.5	25.2	33.1	35.8
48°	2.6	10.6	18.5	25.2	33.1	35.8
49°	2.6	10.6	17.2	25.2	33.1	35.8
50°	2.6	10.6	17.2	25.2	33.1	35.8
51°	1.3	9.3	17.2	25.2	33.1	35.8
52°	1.3	9.3	17.2	25.2	33.1	37.1
53°	1.3	9.3	17.2	25.2	33.1	35.8
54°	1.3	9.3	15.9	25.2	33.1	35.8
55°	1.3	9.3	15.9	25.2	33.1	35.8
56°	1.3	7.9	15.9	23.8	33.1	35.8
57°	2.6	7.9	15.9	23.8	33.1	34.4
58°	2.6	7.9	15.9	23.8	31.8	34.4
59°	2.6	7.9	15.9	23.8	31.8	34.4
60°	2.6	7.9	14.6	23.8	31.8	34.4
62.5°	2.6	7.9	14.6	22.5	30.5	33.1
65°	2.6	7.9	13.2	21.2	30.5	31.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.6	6.6	13.2	19.9	29.1	30.5
70°	4.0	6.6	11.9	19.9	27.8	29.1
72.5°	4.0	6.6	11.9	17.2	25.2	27.8
75°	4.0	6.6	10.6	15.9	23.8	25.2
77.5°	4.0	6.6	9.3	14.6	21.2	22.5
80°	5.3	6.6	7.9	11.9	18.5	19.9
82.5°	5.3	6.6	6.6	9.3	14.6	15.9
85°	4.0	5.3	5.3	6.6	9.3	10.6
87.5°	4.0	5.3	4.0	2.6	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)