

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: P1316550

Luminaire Tested: P3SQAS20R359827D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R359827D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

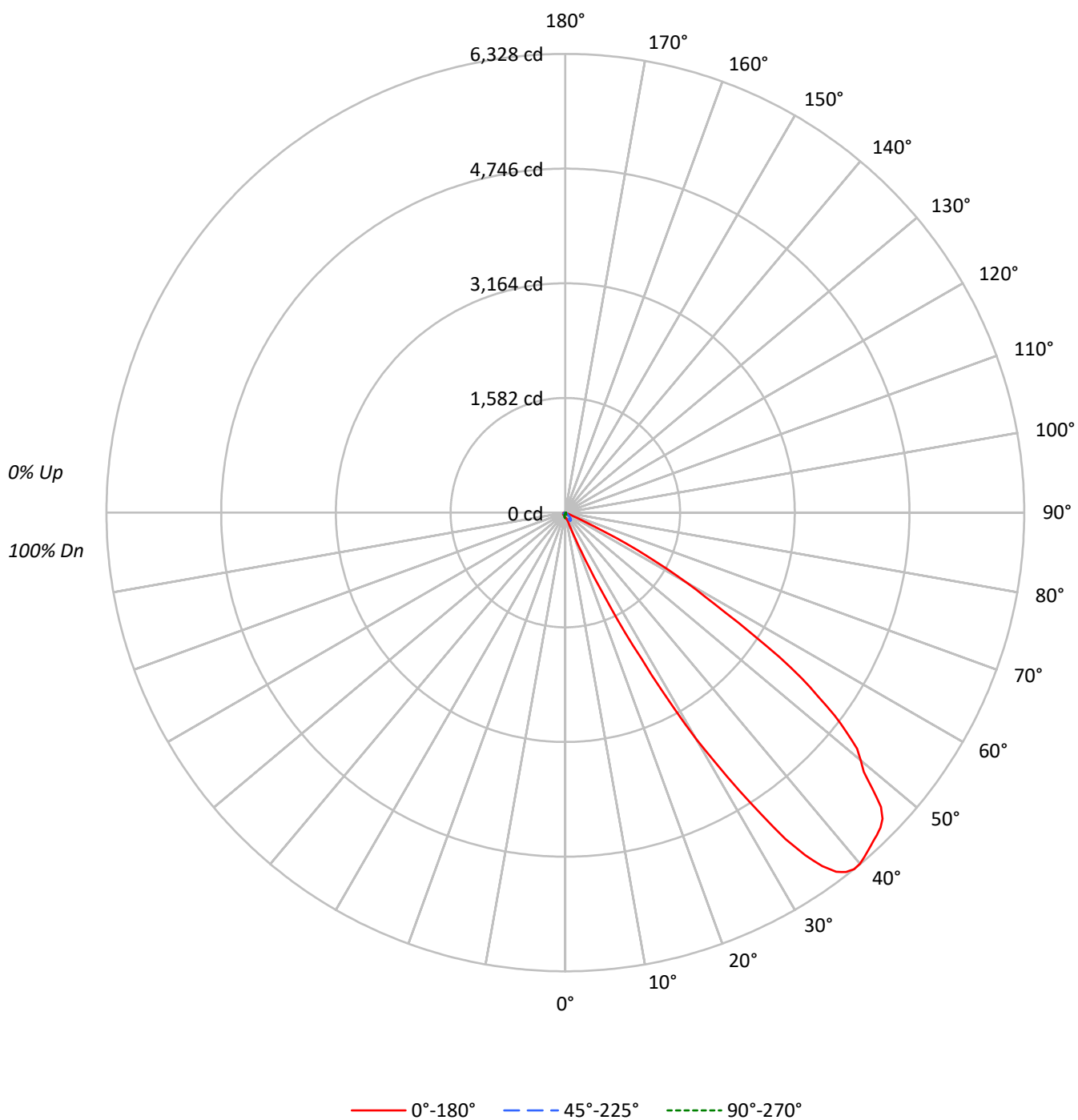
Lumens per Lamp: N/A
Luminaire Lumens: 1576.0 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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: P1316550

CATALOG NUMBER: P3SQAS20R359827D010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1316550

CATALOG NUMBER: P3SQAS20R359827D010 E3SQCA451MW

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12503	12503	12503	12503	12503
5°	13519	13277	12292	11064	10822
10°	14183	12941	10947	9461	9461
15°	20290	12677	8879	8113	8362
20°	50841	13562	7038	7038	7826
25°	236013	17311	5416	6480	7297
30°	717487	23486	4236	5946	7358
35°	1212588	27227	3595	5677	7169
40°	1421406	26866	2878	5755	7666
45°	1496917	19046	2436	6235	8305
50°	1424856	11441	2277	6484	9136
55°	1193958	4684	2552	7266	10689
60°	668396	964	2928	8336	11746
65°	115367	571	2893	9291	13326
70°	2165	705	3575	10021	15056
75°	1863	932	4724	11379	17035
80°	1389	1389	5653	12695	19737
85°	0	2766	11263	14030	22527

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1507503 cd/sqm

TEST NUMBER: P1316550

CATALOG NUMBER: P3SQAS20R359827D010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.4
10°-20°	18.6	1.2
20°-30°	96.7	6.1
30°-40°	417.6	26.5
40°-50°	595.7	37.8
50°-60°	368.9	23.4
60°-70°	56.1	3.6
70°-80°	10.5	0.7
80°-90°	5.3	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°	121.8	7.7
0°-40°	539.4	34.2
0°-60°	1504.1	95.4
0°-90°	1576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1576.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	78	77	71	64	63	8
15°	114	71	50	46	47	41
25°	1242	91	28	34	38	743
35°	5768	130	17	27	34	3463
45°	6146	78	10	26	34	4643
55°	3976	16	8	24	36	3387
65°	283	1	7	23	33	578
75°	3	1	7	17	26	3
85°	0	1	6	7	11	1
90°	0	0	0	0	0	

TEST NUMBER: P1316550

CATALOG NUMBER: P3SQAS20R359827D010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
2.5°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	72.6	71.1
5°	78.2	78.2	76.8	76.8	76.8	76.8	76.8	76.8	74.0	71.1	66.9
7.5°	79.7	79.7	78.2	78.2	78.2	78.2	76.8	75.4	72.6	66.9	62.6
10°	81.1	81.1	81.1	81.1	79.7	78.2	76.8	74.0	69.7	62.6	58.3
12.5°	91.1	91.1	89.6	86.8	83.9	81.1	78.2	72.6	64.0	56.9	52.6
15°	113.8	112.4	109.5	105.3	99.6	92.5	86.8	71.1	58.3	49.8	46.9
17.5°	159.3	156.5	152.2	138.0	125.2	112.4	101.0	71.1	52.6	44.1	41.3
20°	277.4	278.8	249.0	214.8	186.4	155.1	126.6	74.0	46.9	38.4	37.0
22.5°	579.0	556.3	485.1	402.6	307.3	237.6	179.3	81.1	41.3	32.7	32.7
25°	1242.0	1155.2	983.1	742.6	523.5	371.3	260.3	91.1	37.0	28.5	29.9
27.5°	2267.7	2189.5	1843.8	1388.5	921.9	560.5	352.8	103.9	32.7	24.2	27.0
30°	3607.9	3391.7	2940.7	2276.3	1540.8	857.9	473.8	118.1	27.0	21.3	25.6
31°	4026.2	3926.6	3377.4	2633.4	1805.4	1018.6	525.0	122.4	25.6	21.3	24.2
32°	4522.7	4346.3	3854.0	3024.6	2074.3	1162.3	586.1	126.6	24.2	18.5	24.2
33°	4966.6	4795.8	4196.9	3368.9	2346.0	1325.9	651.6	128.0	21.3	18.5	22.8
34°	5433.2	5199.9	4606.6	3728.8	2624.8	1502.3	711.3	129.5	19.9	17.1	22.8
35°	5767.5	5534.2	4959.5	4013.4	2865.3	1658.8	779.6	129.5	18.5	17.1	21.3
36°	6026.5	5821.6	5263.9	4306.4	3104.3	1799.7	833.7	129.5	15.6	15.6	21.3
37°	6204.3	6009.4	5468.8	4558.3	3286.4	1924.9	882.1	129.5	14.2	15.6	21.3
38°	6291.1	6128.9	5666.5	4741.8	3462.8	2023.0	920.5	126.6	12.8	14.2	19.9
39°	6328.1	6195.8	5787.5	4896.9	3595.1	2108.4	948.9	123.8	11.4	14.2	19.9
40°	6322.4	6207.1	5855.7	5003.6	3701.8	2166.7	964.6	119.5	10.0	12.8	19.9
41°	6289.7	6190.1	5891.3	5094.6	3765.8	2206.6	968.8	115.2	8.5	12.8	18.5
42°	6252.7	6161.6	5902.7	5143.0	3807.1	2219.4	957.5	109.5	8.5	11.4	18.5
43°	6214.3	6130.3	5902.7	5158.6	3817.0	2210.8	939.0	99.6	7.1	11.4	18.5
44°	6183.0	6103.3	5884.2	5154.4	3795.7	2178.1	904.8	88.2	5.7	11.4	18.5
45°	6146.0	6067.7	5860.0	5127.3	3754.4	2122.6	862.1	78.2	4.3	10.0	18.5
46°	6080.5	6019.3	5817.3	5071.8	3689.0	2045.8	808.1	71.1	2.8	10.0	17.1
47°	5953.9	5901.3	5734.8	4989.3	3602.2	1954.8	752.6	64.0	2.8	10.0	17.1
48°	5699.2	5697.8	5569.8	4835.7	3464.2	1840.9	694.3	56.9	2.8	10.0	17.1
49°	5453.1	5427.5	5268.2	4565.4	3266.5	1704.4	633.1	51.2	1.4	10.0	17.1
50°	5318.0	5262.5	5000.7	4246.7	3013.2	1515.2	567.6	42.7	1.4	8.5	17.1
51°	5177.1	5097.5	4788.7	3959.3	2711.6	1333.0	496.5	34.1	1.4	8.5	15.6
52°	4922.5	4847.1	4501.4	3684.7	2418.6	1146.7	428.2	28.5	1.4	8.5	17.1
53°	4647.9	4539.8	4164.2	3383.1	2161.0	981.6	358.5	24.2	1.4	8.5	15.6
54°	4302.2	4253.8	3822.7	3013.2	1859.4	822.3	294.5	19.9	1.4	8.5	15.6
55°	3976.4	3905.2	3457.1	2634.8	1586.3	674.3	246.1	15.6	1.4	8.5	15.6
56°	3561.0	3454.3	3034.6	2287.7	1308.9	543.5	207.7	12.8	1.4	8.5	15.6
57°	3065.9	2952.1	2620.6	1902.1	1027.2	414.0	173.6	10.0	1.4	8.5	15.6
58°	2593.5	2495.4	2139.7	1468.2	773.9	287.4	143.7	7.1	1.4	7.1	15.6
59°	2240.7	2132.6	1779.8	1129.6	537.8	212.0	108.1	5.7	1.4	8.5	15.6
60°	1940.5	1801.1	1432.6	874.9	384.1	152.2	79.7	2.8	2.8	8.5	15.6
62.5°	1118.2	987.3	684.3	355.7	157.9	78.2	38.4	1.4	2.8	8.5	15.6
65°	283.1	251.8	163.6	76.8	44.1	27.0	14.2	1.4	2.8	7.1	14.2



TEST NUMBER: P1316550

CATALOG NUMBER: P3SQAS20R359827D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	10.0	10.0	10.0	8.5	7.1	5.7	2.8	1.4	2.8	7.1	14.2
70°	4.3	4.3	4.3	2.8	2.8	1.4	1.4	1.4	2.8	7.1	12.8
72.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	4.3	7.1	11.4
75°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	4.3	7.1	11.4
77.5°	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	4.3	5.7	10.0
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.3	5.7	8.5
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.3	5.7	7.1
85°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4	4.3	5.7	5.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3	5.7	4.3
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: P1316550

CATALOG NUMBER: P3SQAS20R359827D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	72.6	72.6	72.6
2.5°	68.3	68.3	68.3
5°	64.0	64.0	62.6
7.5°	59.8	58.3	58.3
10°	54.1	54.1	54.1
12.5°	49.8	49.8	49.8
15°	45.5	46.9	46.9
17.5°	41.3	44.1	44.1
20°	38.4	41.3	42.7
22.5°	35.6	38.4	39.8
25°	34.1	37.0	38.4
27.5°	31.3	35.6	38.4
30°	29.9	34.1	37.0
31°	29.9	34.1	35.6
32°	28.5	34.1	35.6
33°	28.5	34.1	35.6
34°	28.5	32.7	35.6
35°	27.0	32.7	34.1
36°	27.0	32.7	34.1
37°	27.0	32.7	35.6
38°	27.0	32.7	34.1
39°	25.6	32.7	34.1
40°	25.6	32.7	34.1
41°	25.6	32.7	34.1
42°	25.6	32.7	34.1
43°	25.6	32.7	34.1
44°	25.6	31.3	34.1
45°	25.6	31.3	34.1
46°	25.6	32.7	34.1
47°	25.6	32.7	35.6
48°	25.6	31.3	34.1
49°	24.2	31.3	34.1
50°	24.2	31.3	34.1
51°	24.2	32.7	35.6
52°	24.2	32.7	35.6
53°	24.2	32.7	35.6
54°	24.2	32.7	34.1
55°	24.2	32.7	35.6
56°	24.2	32.7	34.1
57°	24.2	32.7	34.1
58°	24.2	31.3	34.1
59°	24.2	31.3	34.1
60°	24.2	31.3	34.1
62.5°	22.8	31.3	34.1
65°	22.8	29.9	32.7



TEST NUMBER: P1316550

CATALOG NUMBER: P3SQAS20R359827D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	21.3	29.9	31.3
70°	19.9	28.5	29.9
72.5°	18.5	27.0	28.5
75°	17.1	24.2	25.6
77.5°	14.2	21.3	24.2
80°	12.8	18.5	19.9
82.5°	10.0	15.6	17.1
85°	7.1	11.4	11.4
87.5°	2.8	5.7	5.7
90°	0.0	0.0	0.0

(END OF REPORT)