

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: P1318283

Luminaire Tested: P3SQAS20R309835D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R309835D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 98CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

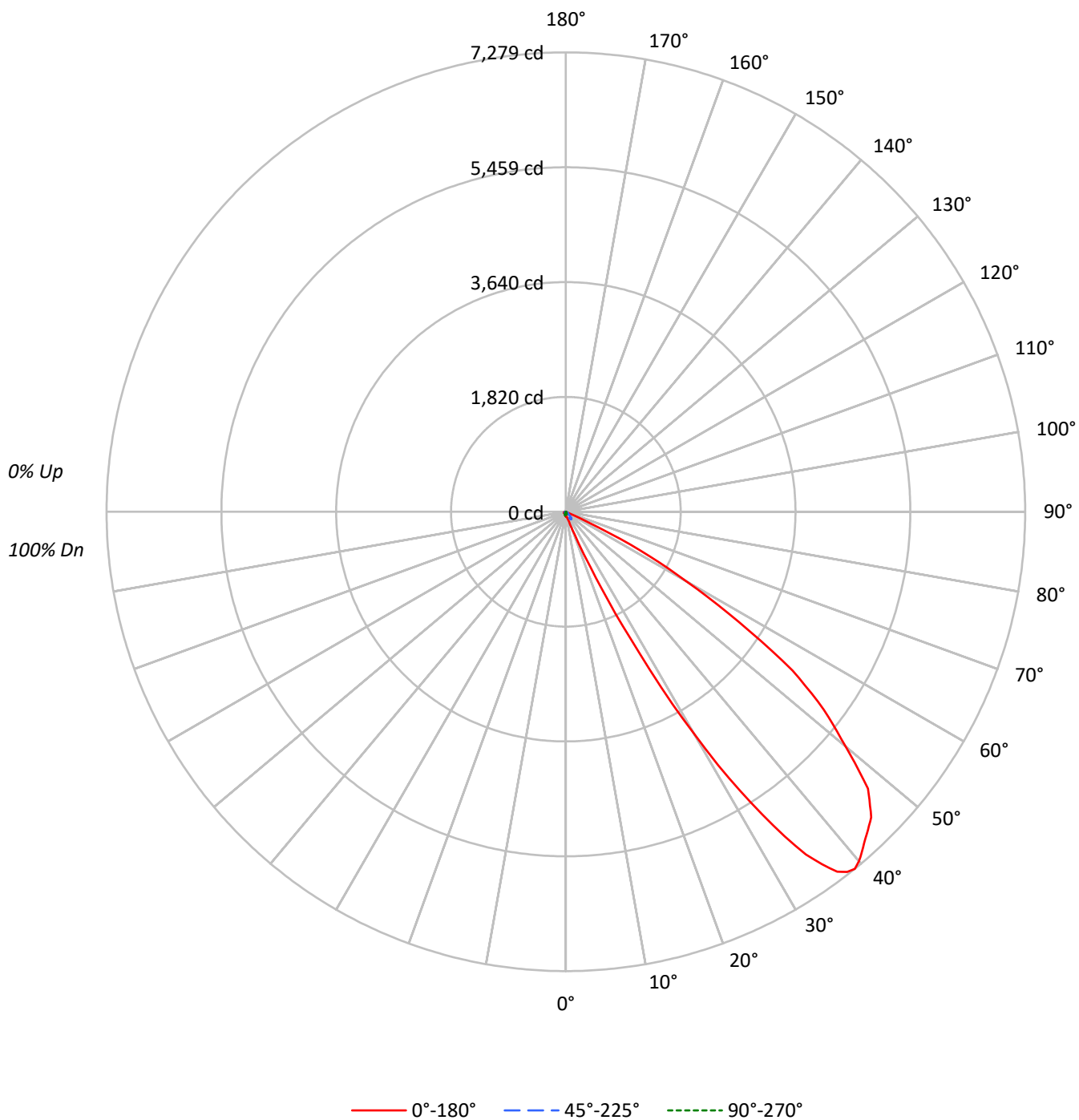
Lumens per Lamp: N/A
Luminaire Lumens: 1892.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1318283

CATALOG NUMBER: P3SQAS20R309835D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1318283

CATALOG NUMBER: P3SQAS20R309835D010 E3SQCA451MB

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24		
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12624	12624	12624	12624	12624
5°	13502	13225	12396	11289	11012
10°	14777	13098	10878	9758	9478
15°	21592	13069	9093	8237	8523
20°	54323	14314	7001	7001	7881
25°	252279	17863	5454	6366	7259
30°	803119	24719	4117	6026	7298
35°	1393588	30149	3343	5698	7380
40°	1625274	30103	2518	5733	7531
45°	1666800	21360	2728	6211	8159
50°	1550060	11950	2143	6404	9404
55°	1317425	6215	2402	7176	10539
60°	760845	1653	2756	7681	11539
65°	155222	0	3260	9088	13000
70°	2417	806	4028	10423	15257
75°	2129	1065	4259	10580	18033
80°	1587	1587	6347	12596	20530
85°	0	3162	12647	12647	25096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1666800 cd/sqm

TEST NUMBER: P1318283

CATALOG NUMBER: P3SQAS20R309835D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	0.4
10°-20°	19.1	1.0
20°-30°	109.1	5.8
30°-40°	509.6	26.9
40°-50°	720.7	38.1
50°-60°	443.4	23.4
60°-70°	67.5	3.6
70°-80°	10.7	0.6
80°-90°	5.4	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°	134.8	7.1
0°-40°	644.4	34.1
0°-60°	1808.5	95.6
0°-90°	1892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	78	76	72	65	64	8
15°	121	73	51	46	48	43
25°	1328	94	29	34	38	817
35°	6628	143	16	27	35	3978
45°	6844	88	11	26	34	5188
55°	4388	21	8	24	35	3733
65°	381	0	8	22	32	689
75°	3	2	6	16	27	3
85°	0	2	6	6	13	1
90°	0	0	0	0	0	

TEST NUMBER: P1318283

CATALOG NUMBER: P3SQAS20R309835D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
2.5°	74.9	74.9	76.5	76.5	74.9	76.5	76.5	76.5	73.3	71.7	68.5
5°	78.1	78.1	78.1	79.7	78.1	78.1	76.5	74.9	71.7	66.9	65.3
7.5°	81.3	81.3	79.7	81.3	79.7	79.7	76.5	73.3	68.5	63.7	60.6
10°	84.5	84.5	82.9	82.9	81.3	81.3	74.9	70.1	62.2	57.4	55.8
12.5°	94.0	94.0	92.4	90.8	87.7	86.1	73.3	65.3	55.8	51.0	49.4
15°	121.1	119.5	116.3	111.6	103.6	102.0	73.3	60.6	51.0	46.2	46.2
17.5°	165.7	164.2	159.4	146.6	132.3	127.5	73.3	54.2	44.6	41.4	41.4
20°	296.4	283.7	259.8	227.9	194.4	176.9	78.1	47.8	38.2	36.7	38.2
21°	387.3	374.5	344.2	291.7	232.7	213.6	81.3	46.2	36.7	35.1	38.2
22°	527.5	513.2	451.0	379.3	294.8	261.4	82.9	43.0	33.5	33.5	36.7
23°	736.3	712.4	607.2	492.5	368.2	320.3	86.1	41.4	31.9	33.5	35.1
24°	964.2	943.5	824.0	651.8	470.2	401.6	89.2	39.8	30.3	30.3	33.5
25°	1327.6	1303.7	1091.7	822.4	596.1	482.9	94.0	36.7	28.7	28.7	33.5
26°	1797.7	1687.8	1405.7	1059.8	734.7	605.6	98.8	35.1	27.1	28.7	31.9
27°	2244.0	2153.1	1836.0	1359.5	908.4	744.3	105.2	33.5	25.5	27.1	31.9
28°	2830.5	2703.0	2303.0	1719.6	1144.3	900.5	111.6	31.9	23.9	27.1	30.3
29°	3487.1	3308.6	2825.7	2124.5	1410.5	1075.8	117.9	30.3	22.3	25.5	30.3
30°	4038.5	3871.2	3388.3	2604.2	1716.5	1306.9	124.3	28.7	20.7	25.5	30.3
31°	4685.6	4432.2	3847.3	3010.6	1979.4	1538.0	130.7	25.5	19.1	23.9	28.7
32°	5209.9	5033.0	4411.5	3469.6	2325.3	1793.0	135.5	23.9	19.1	23.9	28.7
33°	5716.7	5479.3	4878.4	3909.4	2637.6	2054.3	140.2	22.3	17.5	22.3	28.7
34°	6201.2	5982.9	5319.9	4264.9	2932.5	2303.0	143.4	19.1	17.5	22.3	27.1
35°	6628.4	6375.0	5708.8	4612.3	3235.3	2529.3	143.4	17.5	15.9	20.7	27.1
36°	6905.7	6724.0	6046.7	4954.9	3509.4	2744.4	143.4	15.9	14.3	20.7	25.5
37°	7143.1	6931.2	6317.6	5217.9	3711.8	2916.5	143.4	14.3	14.3	20.7	25.5
38°	7240.4	7058.7	6504.1	5450.6	3901.5	3091.9	141.8	12.7	12.7	19.1	25.5
39°	7278.6	7116.1	6644.3	5617.9	4041.7	3209.8	138.7	11.2	12.7	19.1	25.5
40°	7229.2	7106.5	6716.0	5726.3	4153.3	3295.9	133.9	9.6	11.2	19.1	25.5
42.5°	7025.2	6943.9	6700.1	5834.7	4248.9	3359.6	116.3	6.4	11.2	17.5	25.5
45°	6843.5	6754.3	6539.1	5721.5	4124.6	3233.7	87.7	3.2	11.2	17.5	25.5
47.5°	6491.3	6435.5	6266.6	5433.1	3852.1	2950.0	62.2	1.6	9.6	15.9	23.9
50°	5785.3	5732.7	5509.6	4717.5	3313.4	2494.2	44.6	1.6	8.0	15.9	23.9
52.5°	5152.6	5096.8	4776.4	3922.2	2545.2	1828.0	28.7	1.6	8.0	15.9	23.9
55°	4387.6	4290.4	3869.6	2977.1	1804.1	1225.6	20.7	1.6	8.0	14.3	23.9
57.5°	3248.0	3106.2	2730.1	2030.4	1039.1	664.6	11.2	1.6	8.0	14.3	23.9
60°	2208.9	2124.5	1708.5	1071.0	443.1	280.5	4.8	1.6	8.0	14.3	22.3
62.5°	1338.7	1232.0	859.0	455.8	191.2	127.5	0.0	3.2	8.0	14.3	22.3
65°	380.9	337.9	224.7	103.6	54.2	41.4	0.0	3.2	8.0	14.3	22.3
67.5°	12.7	12.7	12.7	11.2	8.0	8.0	1.6	3.2	8.0	14.3	20.7
70°	4.8	4.8	4.8	3.2	3.2	1.6	1.6	3.2	8.0	12.7	20.7
72.5°	3.2	3.2	3.2	3.2	1.6	1.6	1.6	3.2	6.4	11.2	19.1
75°	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.8	6.4	11.2	15.9
77.5°	3.2	3.2	3.2	1.6	1.6	1.6	1.6	4.8	6.4	9.6	15.9
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.8	6.4	9.6	12.7



TEST NUMBER: P1318283

CATALOG NUMBER: P3SQAS20R309835D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.6	1.6	1.6	0.0	0.0	0.0	1.6	4.8	6.4	6.4	9.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	6.4	4.8	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	4.8	4.8	3.2
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: P1318283

CATALOG NUMBER: P3SQAS20R309835D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	73.3	73.3
2.5°	68.5	68.5
5°	63.7	63.7
7.5°	59.0	59.0
10°	54.2	54.2
12.5°	51.0	51.0
15°	46.2	47.8
17.5°	43.0	44.6
20°	41.4	43.0
21°	41.4	43.0
22°	39.8	41.4
23°	39.8	41.4
24°	38.2	39.8
25°	36.7	38.2
26°	36.7	38.2
27°	36.7	38.2
28°	35.1	38.2
29°	35.1	36.7
30°	35.1	36.7
31°	33.5	36.7
32°	33.5	36.7
33°	33.5	35.1
34°	31.9	35.1
35°	31.9	35.1
36°	31.9	35.1
37°	31.9	33.5
38°	31.9	35.1
39°	31.9	33.5
40°	31.9	33.5
42.5°	31.9	33.5
45°	31.9	33.5
47.5°	31.9	35.1
50°	31.9	35.1
52.5°	31.9	35.1
55°	31.9	35.1
57.5°	31.9	33.5
60°	31.9	33.5
62.5°	30.3	33.5
65°	30.3	31.9
67.5°	30.3	31.9
70°	28.7	30.3
72.5°	27.1	28.7
75°	23.9	27.1
77.5°	22.3	23.9
80°	19.1	20.7



TEST NUMBER: P1318283

CATALOG NUMBER: P3SQAS20R309835D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	15.9	15.9
85°	11.2	12.7
87.5°	6.4	6.4
90°	0.0	0.0

(END OF REPORT)