

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: P1306218

Luminaire Tested: P3SQASS20R309024D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306218
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: P3SQASS20R309024D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

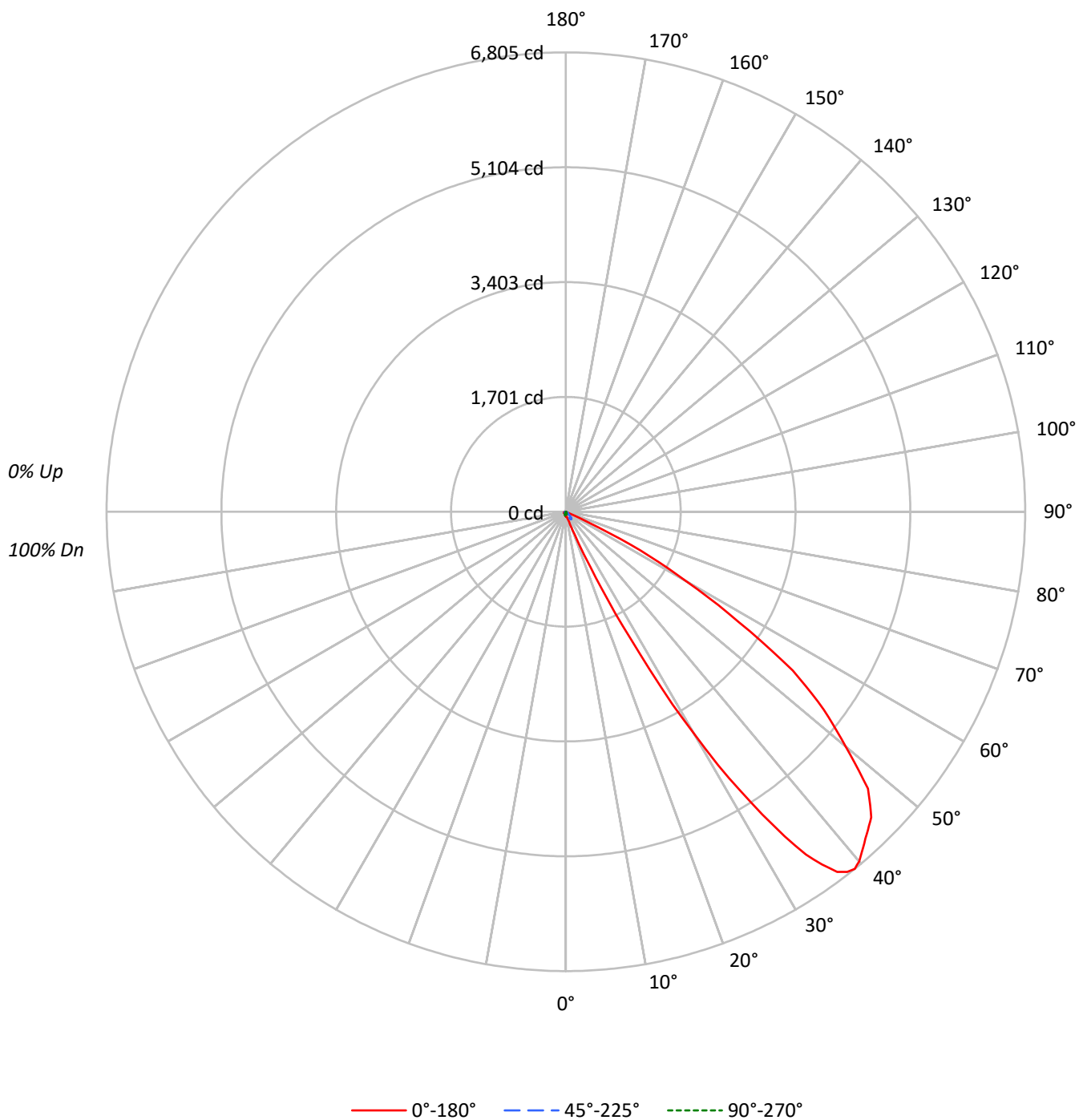
Lumens per Lamp: N/A
Luminaire Lumens: 1769.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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
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	108	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	60	52	45	58	51	45	56	50	44	54	49	44
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11797	11797	11797	11797	11797
5°	12620	12361	11600	10563	10304
10°	13815	12242	10160	9129	8866
15°	20183	12213	8505	7702	7970
20°	50804	13379	6561	6561	7368
25°	235880	16703	5093	5948	6803
30°	750916	23108	3858	5628	6821
35°	1302994	28194	3133	5319	6896
40°	1519608	28148	2338	5351	7037
45°	1558440	19972	2533	5797	7623
50°	1449292	11173	2009	6002	8788
55°	1231761	5825	2252	6726	9849
60°	711383	1550	2583	7199	10781
65°	145116	0	3056	8517	12144
70°	2266	755	3777	9769	14250
75°	1996	998	3993	9915	16835
80°	1488	1488	5951	11802	19241
85°	0	2964	11856	11856	23515

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1558440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.4
10°-20°	17.8	1.0
20°-30°	102.0	5.8
30°-40°	476.5	26.9
40°-50°	673.8	38.1
50°-60°	414.5	23.4
60°-70°	63.1	3.6
70°-80°	10.0	0.6
80°-90°	5.0	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°	126.0	7.1
0°-40°	602.5	34.1
0°-60°	1690.9	95.6
0°-90°	1769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	73	72	67	61	60	7
15°	113	68	48	43	45	40
25°	1241	88	27	31	36	764
35°	6198	134	15	25	33	3719
45°	6399	82	10	24	31	4851
55°	4102	19	8	22	33	3491
65°	356	0	8	21	30	645
75°	3	2	6	15	25	3
85°	0	2	6	6	12	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
2.5°	70.0	70.0	71.5	71.5	70.0	71.5	71.5	71.5	68.5	67.1	64.1
5°	73.0	73.0	73.0	74.5	73.0	73.0	71.5	70.0	67.1	62.6	61.1
7.5°	76.0	76.0	74.5	76.0	74.5	74.5	71.5	68.5	64.1	59.6	56.6
10°	79.0	79.0	77.5	77.5	76.0	76.0	70.0	65.6	58.1	53.6	52.2
12.5°	87.9	87.9	86.4	84.9	82.0	80.5	68.5	61.1	52.2	47.7	46.2
15°	113.2	111.8	108.8	104.3	96.9	95.4	68.5	56.6	47.7	43.2	43.2
17.5°	155.0	153.5	149.0	137.1	123.7	119.2	68.5	50.7	41.7	38.7	38.7
20°	277.2	265.2	242.9	213.1	181.8	165.4	73.0	44.7	35.8	34.3	35.8
21°	362.1	350.2	321.9	272.7	217.6	199.7	76.0	43.2	34.3	32.8	35.8
22°	493.2	479.8	421.7	354.7	275.7	244.4	77.5	40.2	31.3	31.3	34.3
23°	688.4	666.1	567.7	460.5	344.2	299.5	80.5	38.7	29.8	31.3	32.8
24°	901.5	882.2	770.4	609.5	439.6	375.5	83.4	37.3	28.3	28.3	31.3
25°	1241.3	1218.9	1020.7	768.9	557.3	451.5	87.9	34.3	26.8	26.8	31.3
26°	1680.9	1578.0	1314.3	990.9	687.0	566.2	92.4	32.8	25.3	26.8	29.8
27°	2098.1	2013.2	1716.6	1271.1	849.4	695.9	98.3	31.3	23.8	25.3	29.8
28°	2646.5	2527.3	2153.2	1607.9	1069.9	841.9	104.3	29.8	22.4	25.3	28.3
29°	3260.4	3093.5	2642.0	1986.3	1318.8	1005.8	110.3	28.3	20.9	23.8	28.3
30°	3776.0	3619.5	3168.0	2434.9	1604.9	1221.9	116.2	26.8	19.4	23.8	28.3
31°	4381.0	4144.1	3597.2	2814.9	1850.7	1438.0	122.2	23.8	17.9	22.4	26.8
32°	4871.2	4705.8	4124.7	3244.0	2174.1	1676.4	126.7	22.4	17.9	22.4	26.8
33°	5345.1	5123.1	4561.3	3655.3	2466.2	1920.8	131.1	20.9	16.4	20.9	26.8
34°	5798.1	5594.0	4974.1	3987.6	2741.8	2153.2	134.1	17.9	16.4	20.9	25.3
35°	6197.5	5960.5	5337.6	4312.4	3025.0	2364.8	134.1	16.4	14.9	19.4	25.3
36°	6456.7	6286.9	5653.6	4632.8	3281.3	2566.0	134.1	14.9	13.4	19.4	23.8
37°	6678.8	6480.6	5906.9	4878.7	3470.5	2726.9	134.1	13.4	13.4	19.4	23.8
38°	6769.7	6599.8	6081.2	5096.2	3647.8	2890.9	132.6	11.9	11.9	17.9	23.8
39°	6805.4	6653.4	6212.4	5252.7	3779.0	3001.1	129.6	10.4	11.9	17.9	23.8
40°	6759.2	6644.5	6279.4	5354.0	3883.3	3081.6	125.2	8.9	10.4	17.9	23.8
42.5°	6568.5	6492.5	6264.5	5455.4	3972.7	3141.2	108.8	6.0	10.4	16.4	23.8
45°	6398.6	6315.2	6114.0	5349.6	3856.5	3023.5	82.0	3.0	10.4	16.4	23.8
47.5°	6069.3	6017.1	5859.2	5079.9	3601.6	2758.2	58.1	1.5	8.9	14.9	22.4
50°	5409.2	5360.0	5151.4	4410.8	3098.0	2332.1	41.7	1.5	7.5	14.9	22.4
52.5°	4817.6	4765.4	4465.9	3667.2	2379.7	1709.2	26.8	1.5	7.5	14.9	22.4
55°	4102.3	4011.4	3618.0	2783.6	1686.8	1145.9	19.4	1.5	7.5	13.4	22.4
57.5°	3036.9	2904.3	2552.6	1898.4	971.6	621.4	10.4	1.5	7.5	13.4	22.4
60°	2065.3	1986.3	1597.4	1001.4	414.3	262.3	4.5	1.5	7.5	13.4	20.9
62.5°	1251.7	1151.9	803.2	426.2	178.8	119.2	0.0	3.0	7.5	13.4	20.9
65°	356.1	315.9	210.1	96.9	50.7	38.7	0.0	3.0	7.5	13.4	20.9
67.5°	11.9	11.9	11.9	10.4	7.5	7.5	1.5	3.0	7.5	13.4	19.4
70°	4.5	4.5	4.5	3.0	3.0	1.5	1.5	3.0	7.5	11.9	19.4
72.5°	3.0	3.0	3.0	3.0	1.5	1.5	1.5	3.0	6.0	10.4	17.9
75°	3.0	3.0	3.0	1.5	1.5	1.5	1.5	4.5	6.0	10.4	14.9
77.5°	3.0	3.0	3.0	1.5	1.5	1.5	1.5	4.5	6.0	8.9	14.9
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5	6.0	8.9	11.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.5	1.5	1.5	0.0	0.0	0.0	1.5	4.5	6.0	6.0	8.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.5	6.0	4.5	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.5	4.5	4.5	3.0
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):

	157.5°	180°
0°	68.5	68.5
2.5°	64.1	64.1
5°	59.6	59.6
7.5°	55.1	55.1
10°	50.7	50.7
12.5°	47.7	47.7
15°	43.2	44.7
17.5°	40.2	41.7
20°	38.7	40.2
21°	38.7	40.2
22°	37.3	38.7
23°	37.3	38.7
24°	35.8	37.3
25°	34.3	35.8
26°	34.3	35.8
27°	34.3	35.8
28°	32.8	35.8
29°	32.8	34.3
30°	32.8	34.3
31°	31.3	34.3
32°	31.3	34.3
33°	31.3	32.8
34°	29.8	32.8
35°	29.8	32.8
36°	29.8	32.8
37°	29.8	31.3
38°	29.8	32.8
39°	29.8	31.3
40°	29.8	31.3
42.5°	29.8	31.3
45°	29.8	31.3
47.5°	29.8	32.8
50°	29.8	32.8
52.5°	29.8	32.8
55°	29.8	32.8
57.5°	29.8	31.3
60°	29.8	31.3
62.5°	28.3	31.3
65°	28.3	29.8
67.5°	28.3	29.8
70°	26.8	28.3
72.5°	25.3	26.8
75°	22.4	25.3
77.5°	20.9	22.4
80°	17.9	19.4



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CATALOG NUMBER: P3SQASS20R309024D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	14.9	14.9
85°	10.4	11.9
87.5°	6.0	6.0
90°	0.0	0.0

(END OF REPORT)