

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: P1310527

Luminaire Tested: P3SQAS20R259040D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310527
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: P3SQAS20R259040D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

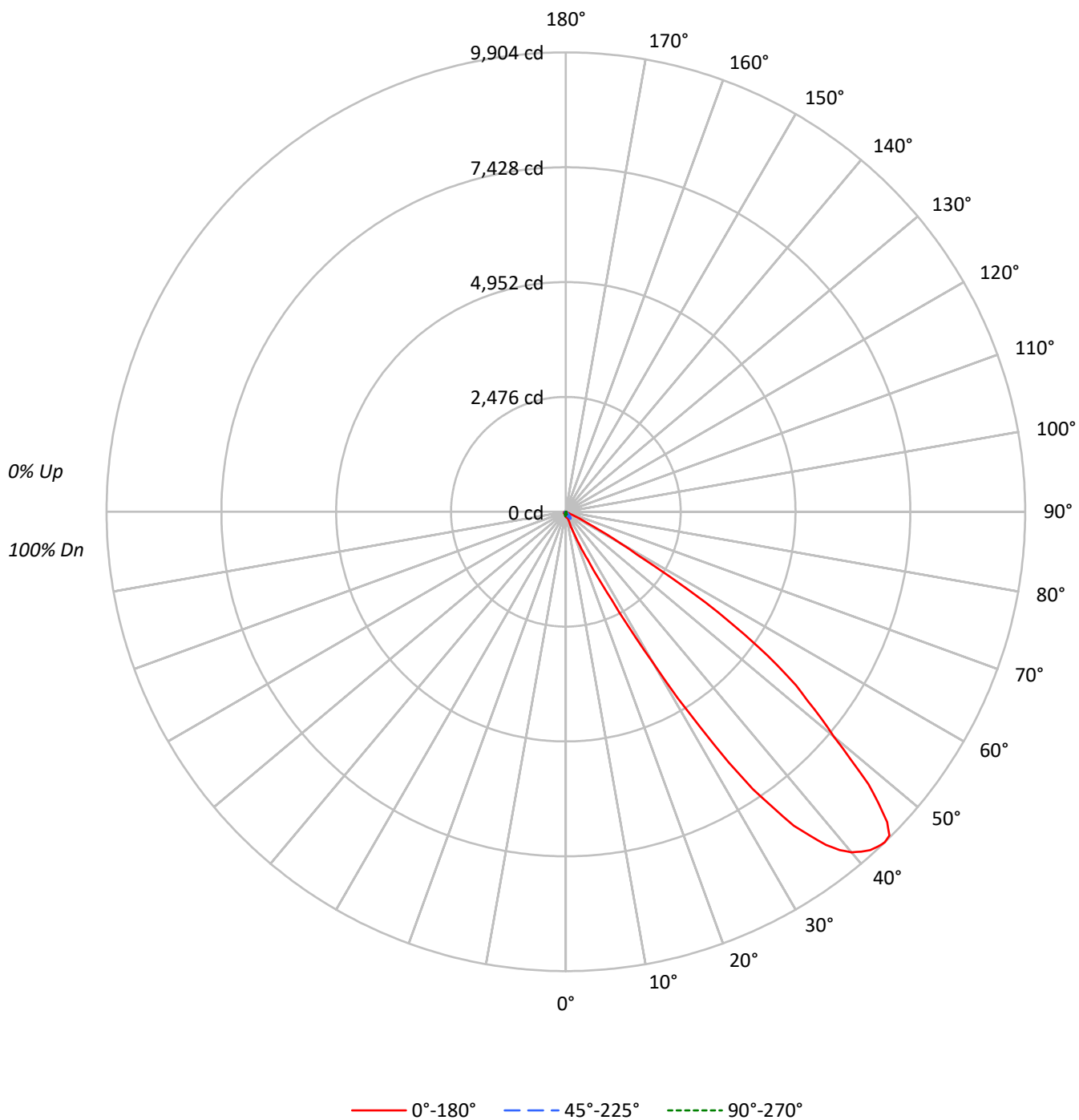
Lumens per Lamp: N/A
Luminaire Lumens: 2065.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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°	18152	18152	18152	18152	18152
5°	20728	19795	17599	15715	15386
10°	20653	18747	14935	13029	13029
15°	23000	16207	11661	11019	11661
20°	81264	15982	8999	9329	10318
25°	233771	20371	7259	8627	10014
30°	745865	31441	5787	8313	10122
35°	1633625	37066	4962	8031	10323
40°	2155019	33498	4092	8161	11039
45°	2403227	23455	3994	8841	11959
50°	2022958	12164	3885	9244	13155
55°	1512445	4924	3813	10359	14743
60°	468170	1240	3754	11263	16258
65°	39977	0	4442	11859	17768
70°	2769	906	4582	13747	20142
75°	2396	1198	6055	14506	22957
80°	1785	1785	9025	16265	27076
85°	3557	3557	14425	17982	28652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2403227 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.5
10°-20°	24.3	1.2
20°-30°	114.2	5.5
30°-40°	550.1	26.6
40°-50°	862.2	41.8
50°-60°	442.0	21.4
60°-70°	41.7	2.0
70°-80°	14.0	0.7
80°-90°	7.0	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°	148.0	7.2
0°-40°	698.1	33.8
0°-60°	2002.2	97.0
0°-90°	2065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	105	105	105	105	105	
5°	120	114	102	91	89	11
15°	129	91	65	62	65	54
25°	1230	107	38	45	53	763
35°	7770	176	24	38	49	4717
45°	9867	96	16	36	49	7220
55°	5037	16	13	34	49	4193
65°	98	0	11	29	44	307
75°	4	2	9	22	34	4
85°	2	2	7	9	14	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°	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4
2.5°	114.5	114.5	114.5	114.5	114.5	114.5	112.7	112.7	114.5	112.7	112.7
5°	119.9	119.9	119.9	119.9	119.9	119.9	119.9	118.1	118.1	118.1	114.5
7.5°	121.7	119.9	119.9	119.9	119.9	119.9	119.9	119.9	118.1	118.1	112.7
10°	118.1	118.1	118.1	118.1	116.3	116.3	116.3	114.5	114.5	114.5	107.2
12.5°	118.1	118.1	118.1	118.1	116.3	116.3	114.5	114.5	112.7	110.8	98.1
15°	129.0	129.0	129.0	127.2	125.4	123.6	121.7	119.9	118.1	114.5	90.9
17.5°	189.0	183.5	181.7	174.4	165.4	156.3	149.0	141.7	134.5	129.0	87.2
20°	443.4	441.6	432.5	410.7	387.1	359.8	332.5	301.6	258.0	229.0	87.2
22.5°	768.7	757.8	741.4	725.0	683.2	634.2	583.3	525.2	468.8	408.9	92.7
25°	1230.2	1255.7	1201.1	1157.5	1084.8	995.8	899.5	819.5	717.8	623.3	107.2
27.5°	2138.8	2155.1	2047.9	1906.2	1737.2	1550.0	1368.3	1232.0	1061.2	904.9	134.5
30°	3750.6	3767.0	3587.1	3285.4	2936.5	2629.4	2213.3	1848.0	1511.9	1252.0	158.1
31°	4681.0	4553.8	4344.8	4052.2	3610.7	3147.3	2647.6	2206.0	1780.8	1439.2	165.4
32°	5489.6	5478.7	5235.2	4791.8	4348.4	3776.0	3156.4	2580.4	2058.8	1628.2	170.8
33°	6443.6	6370.9	6027.5	5609.5	5022.6	4446.6	3647.0	2989.2	2344.1	1839.0	174.4
34°	7208.6	7012.4	6870.6	6392.7	5773.1	5039.0	4183.1	3421.7	2700.3	2042.5	176.3
35°	7770.1	7728.3	7452.1	7006.9	6376.4	5625.9	4760.9	3870.5	2998.3	2278.7	176.3
36°	8364.3	8235.3	7966.4	7563.0	6948.8	6172.9	5202.5	4259.4	3345.4	2491.3	174.4
37°	8736.9	8660.5	8393.4	7977.3	7375.8	6634.4	5696.8	4670.1	3621.6	2703.9	170.8
38°	9120.3	8965.8	8702.3	8304.4	7713.8	7017.8	6054.7	4986.3	3876.0	2891.1	165.4
39°	9385.6	9225.7	8956.7	8560.6	7982.7	7292.2	6338.2	5255.2	4097.7	3031.0	158.1
40°	9585.5	9431.0	9158.4	8751.4	8180.8	7508.5	6574.5	5493.2	4283.0	3152.8	149.0
41°	9709.0	9565.5	9294.7	8889.5	8317.1	7632.0	6728.9	5647.7	4408.4	3234.5	139.9
42°	9812.6	9665.4	9389.2	8974.9	8400.7	7737.4	6823.4	5745.8	4493.8	3276.3	132.7
43°	9870.8	9723.6	9454.6	9031.2	8451.6	7786.5	6874.3	5791.3	4522.9	3270.9	119.9
44°	9903.5	9750.8	9480.1	9056.7	8473.4	7799.2	6877.9	5782.2	4502.9	3227.3	109.0
45°	9867.1	9716.3	9454.6	9031.2	8435.2	7759.2	6841.6	5733.1	4426.6	3141.9	96.3
46°	9630.9	9514.6	9274.7	8885.9	8315.3	7657.5	6748.9	5638.6	4308.5	3036.5	81.8
47°	9214.8	9122.1	8889.5	8600.6	8084.5	7470.3	6578.1	5458.7	4143.1	2878.4	65.4
48°	8780.5	8644.2	8427.9	8131.8	7695.6	7134.1	6296.4	5195.2	3892.3	2671.2	58.1
49°	8139.0	8059.1	7868.3	7537.5	7175.9	6681.7	5898.5	4857.2	3585.2	2445.9	50.9
50°	7550.3	7495.7	7228.6	6985.1	6601.7	6140.2	5358.8	4412.0	3203.6	2166.0	45.4
51°	7090.5	7025.1	6832.5	6529.0	6120.2	5584.1	4848.2	3834.2	2765.7	1833.5	36.3
52°	6610.8	6574.5	6403.6	6091.1	5689.5	5155.3	4352.1	3343.6	2340.5	1550.0	29.1
53°	6218.3	6165.6	5956.6	5678.6	5244.3	4691.9	3814.2	2887.5	1982.5	1302.9	25.4
54°	5645.9	5624.1	5489.6	5198.9	4728.2	4126.8	3327.2	2431.3	1653.6	1104.8	21.8
55°	5037.1	4964.5	4828.2	4597.4	4164.9	3603.4	2763.9	2015.2	1337.4	930.4	16.4
56°	4295.7	4292.1	4048.6	3856.0	3472.6	2876.6	2207.8	1573.7	1086.7	775.9	14.5
57°	3587.1	3472.6	3238.2	3047.4	2634.9	2182.4	1639.1	1179.3	850.4	628.7	10.9
58°	2653.0	2593.1	2531.3	2251.5	1869.8	1546.4	1170.2	828.6	628.7	479.7	7.3
59°	1800.8	1799.0	1726.3	1513.7	1293.8	963.1	730.5	563.3	432.5	352.5	5.5
60°	1359.2	1326.5	1181.1	1041.2	814.1	608.7	432.5	332.5	268.9	227.1	3.6
62.5°	476.1	494.3	434.3	359.8	274.4	225.3	172.6	139.9	114.5	92.7	0.0
65°	98.1	107.2	92.7	87.2	69.1	60.0	52.7	45.4	38.2	32.7	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°	12.7	10.9	10.9	10.9	9.1	9.1	9.1	9.1	7.3	7.3	1.8
70°	5.5	5.5	5.5	5.5	5.5	5.5	3.6	3.6	3.6	3.6	1.8
72.5°	5.5	5.5	5.5	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6
85°	1.8	1.8	1.8	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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°	105.4	105.4	105.4	105.4	105.4	105.4
2.5°	110.8	107.2	101.8	99.9	98.1	98.1
5°	109.0	101.8	96.3	90.9	89.0	89.0
7.5°	103.6	94.5	87.2	83.6	81.8	80.0
10°	98.1	85.4	78.1	74.5	74.5	74.5
12.5°	87.2	76.3	69.1	67.2	69.1	69.1
15°	78.1	65.4	61.8	61.8	63.6	65.4
17.5°	67.2	58.1	54.5	56.3	58.1	60.0
20°	60.0	49.1	49.1	50.9	56.3	56.3
22.5°	52.7	43.6	43.6	49.1	52.7	54.5
25°	47.2	38.2	40.0	45.4	50.9	52.7
27.5°	40.0	32.7	36.3	43.6	49.1	50.9
30°	34.5	29.1	34.5	41.8	47.2	50.9
31°	32.7	27.3	34.5	40.0	47.2	50.9
32°	29.1	27.3	32.7	40.0	47.2	49.1
33°	27.3	25.4	32.7	40.0	47.2	49.1
34°	25.4	23.6	30.9	40.0	47.2	49.1
35°	21.8	23.6	30.9	38.2	45.4	49.1
36°	20.0	21.8	30.9	38.2	45.4	49.1
37°	18.2	21.8	29.1	38.2	45.4	49.1
38°	16.4	20.0	29.1	38.2	45.4	49.1
39°	14.5	20.0	27.3	38.2	45.4	49.1
40°	12.7	18.2	27.3	36.3	45.4	49.1
41°	12.7	18.2	27.3	36.3	45.4	49.1
42°	10.9	18.2	27.3	36.3	45.4	49.1
43°	9.1	16.4	27.3	36.3	45.4	49.1
44°	7.3	16.4	25.4	36.3	45.4	49.1
45°	7.3	16.4	25.4	36.3	45.4	49.1
46°	5.5	14.5	25.4	36.3	45.4	49.1
47°	3.6	14.5	25.4	34.5	45.4	49.1
48°	3.6	14.5	25.4	34.5	45.4	49.1
49°	3.6	14.5	23.6	34.5	45.4	49.1
50°	3.6	14.5	23.6	34.5	45.4	49.1
51°	1.8	12.7	23.6	34.5	45.4	49.1
52°	1.8	12.7	23.6	34.5	45.4	50.9
53°	1.8	12.7	23.6	34.5	45.4	49.1
54°	1.8	12.7	21.8	34.5	45.4	49.1
55°	1.8	12.7	21.8	34.5	45.4	49.1
56°	1.8	10.9	21.8	32.7	45.4	49.1
57°	3.6	10.9	21.8	32.7	45.4	47.2
58°	3.6	10.9	21.8	32.7	43.6	47.2
59°	3.6	10.9	21.8	32.7	43.6	47.2
60°	3.6	10.9	20.0	32.7	43.6	47.2
62.5°	3.6	10.9	20.0	30.9	41.8	45.4
65°	3.6	10.9	18.2	29.1	41.8	43.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.6	9.1	18.2	27.3	40.0	41.8
70°	5.5	9.1	16.4	27.3	38.2	40.0
72.5°	5.5	9.1	16.4	23.6	34.5	38.2
75°	5.5	9.1	14.5	21.8	32.7	34.5
77.5°	5.5	9.1	12.7	20.0	29.1	30.9
80°	7.3	9.1	10.9	16.4	25.4	27.3
82.5°	7.3	9.1	9.1	12.7	20.0	21.8
85°	5.5	7.3	7.3	9.1	12.7	14.5
87.5°	5.5	7.3	5.5	3.6	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)