

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: P1312758

Luminaire Tested: P3SQAS20R359727D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312758
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: P3SQAS20R359727D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

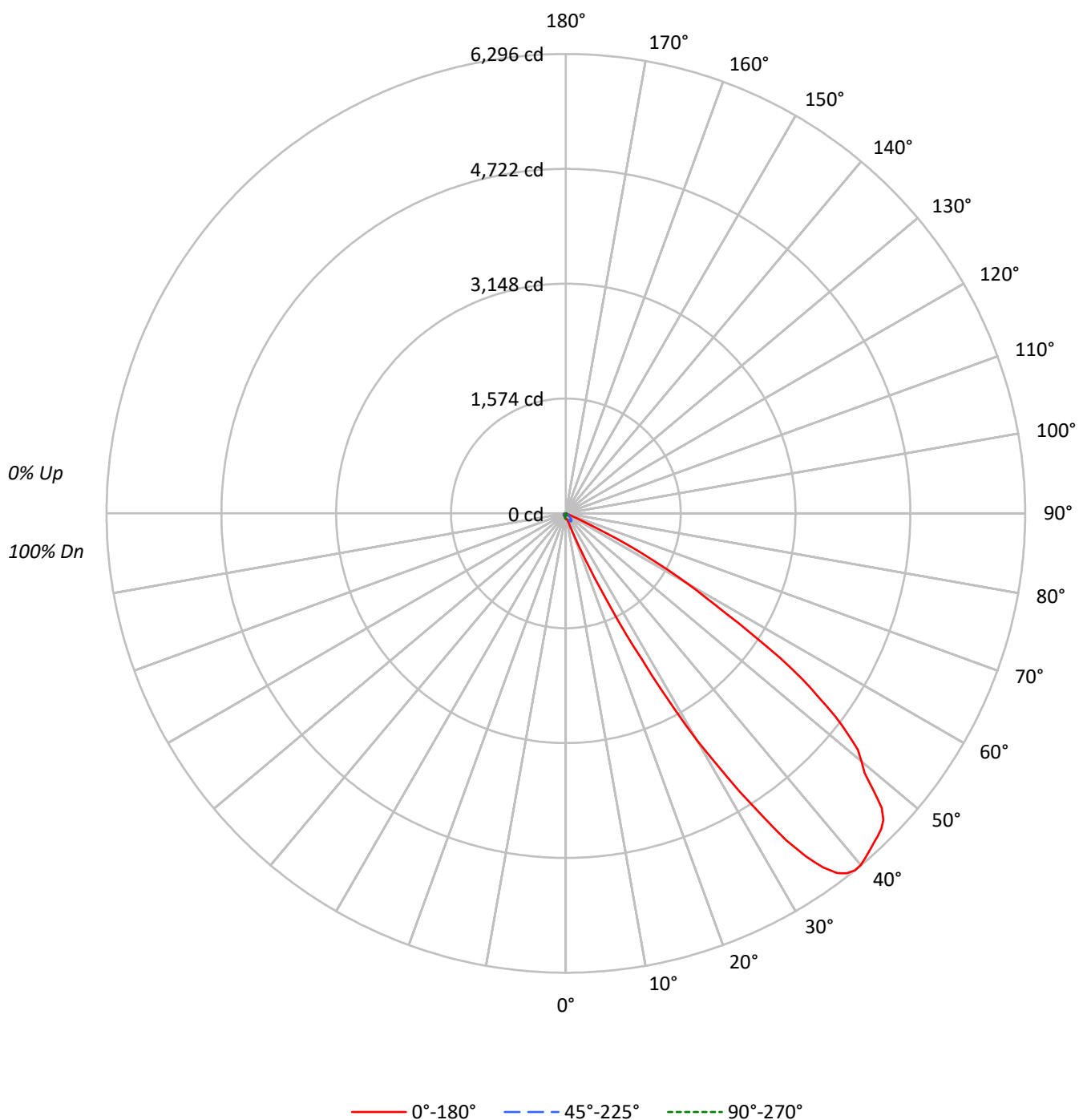
Lumens per Lamp: N/A
Luminaire Lumens: 1568.0 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	107	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	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12434	12434	12434	12434	12434
5°	13467	13208	12240	11012	10770
10°	14113	12871	10895	9409	9409
15°	20183	12623	8826	8077	8327
20°	50584	13489	7001	7001	7789
25°	234816	17216	5378	6461	7259
30°	713848	23367	4216	5906	7318
35°	1206449	27080	3574	5656	7148
40°	1414190	26731	2855	5733	7644
45°	1489318	18973	2411	6211	8281
50°	1417622	11387	2277	6457	9110
55°	1187893	4684	2552	7236	10629
60°	665021	964	2928	8301	11711
65°	114797	571	2893	9210	13285
70°	2115	705	3575	9970	14955
75°	1863	932	4724	11312	16968
80°	1389	1389	5653	12596	19637
85°	0	2766	11263	14030	22329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1499867 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.5	0.4
10°-20°	18.5	1.2
20°-30°	96.2	6.1
30°-40°	415.5	26.5
40°-50°	592.7	37.8
50°-60°	367.1	23.4
60°-70°	55.9	3.6
70°-80°	10.4	0.7
80°-90°	5.2	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°	121.2	7.7
0°-40°	536.7	34.2
0°-60°	1496.5	95.4
0°-90°	1568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	78	76	71	64	62	7
15°	113	71	50	45	47	41
25°	1236	91	28	34	38	739
35°	5738	129	17	27	34	3445
45°	6115	78	10	26	34	4620
55°	3956	16	8	24	35	3369
65°	282	1	7	23	33	575
75°	3	1	7	17	26	3
85°	0	1	6	7	11	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
2.5°	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	72.2	70.8
5°	77.9	77.9	76.4	76.4	76.4	76.4	76.4	76.4	73.6	70.8	66.5
7.5°	79.3	79.3	77.9	77.9	77.9	77.9	76.4	75.0	72.2	66.5	62.3
10°	80.7	80.7	80.7	80.7	79.3	77.9	76.4	73.6	69.4	62.3	58.0
12.5°	90.6	90.6	89.2	86.3	83.5	80.7	77.9	72.2	63.7	56.6	52.4
15°	113.2	111.8	109.0	104.7	99.1	92.0	86.3	70.8	58.0	49.5	46.7
17.5°	158.5	155.7	151.5	137.3	124.6	111.8	100.5	70.8	52.4	43.9	41.0
20°	276.0	277.4	247.7	213.7	185.4	154.3	126.0	73.6	46.7	38.2	36.8
22.5°	576.1	553.4	482.7	400.6	305.7	236.4	178.3	80.7	41.0	32.6	32.6
25°	1235.7	1149.3	978.1	738.9	520.9	369.4	259.0	90.6	36.8	28.3	29.7
27.5°	2256.2	2178.4	1834.4	1381.5	917.2	557.7	351.0	103.3	32.6	24.1	26.9
30°	3589.6	3374.4	2925.7	2264.7	1532.9	853.5	471.3	117.5	26.9	21.2	25.5
31°	4005.7	3906.7	3360.3	2620.0	1796.2	1013.5	522.3	121.7	25.5	21.2	24.1
32°	4499.7	4324.2	3834.5	3009.3	2063.7	1156.4	583.2	126.0	24.1	18.4	24.1
33°	4941.4	4771.5	4175.6	3351.8	2334.1	1319.2	648.3	127.4	21.2	18.4	22.6
34°	5405.6	5173.5	4583.2	3709.9	2611.5	1494.7	707.7	128.8	19.8	17.0	22.6
35°	5738.3	5506.1	4934.3	3993.0	2850.7	1650.4	775.7	128.8	18.4	17.0	21.2
36°	5995.9	5792.0	5237.2	4284.6	3088.5	1790.6	829.5	128.8	15.6	15.6	21.2
37°	6172.8	5978.9	5441.0	4535.1	3269.7	1915.1	877.6	128.8	14.2	15.6	21.2
38°	6259.1	6097.8	5637.8	4717.7	3445.2	2012.8	915.8	126.0	12.7	14.2	19.8
39°	6295.9	6164.3	5758.1	4872.0	3576.9	2097.7	944.1	123.1	11.3	14.2	19.8
40°	6290.3	6175.6	5826.0	4978.2	3683.0	2155.7	959.7	118.9	9.9	12.7	19.8
41°	6257.7	6158.6	5861.4	5068.7	3746.7	2195.4	963.9	114.7	8.5	12.7	18.4
42°	6220.9	6130.3	5872.7	5116.9	3787.8	2208.1	952.6	109.0	8.5	11.3	18.4
43°	6182.7	6099.2	5872.7	5132.4	3797.7	2199.6	934.2	99.1	7.1	11.3	18.4
44°	6151.6	6072.3	5854.3	5128.2	3776.4	2167.1	900.2	87.8	5.7	11.3	18.4
45°	6114.8	6036.9	5830.3	5101.3	3735.4	2111.9	857.8	77.9	4.2	9.9	18.4
46°	6049.7	5988.8	5787.8	5046.1	3670.3	2035.4	804.0	70.8	2.8	9.9	17.0
47°	5923.7	5871.3	5705.7	4964.0	3583.9	1944.8	748.8	63.7	2.8	9.9	17.0
48°	5670.3	5668.9	5541.5	4811.1	3446.6	1831.6	690.7	56.6	2.8	9.9	17.0
49°	5425.4	5400.0	5241.4	4542.2	3249.9	1695.7	629.9	51.0	1.4	9.9	17.0
50°	5291.0	5235.8	4975.3	4225.1	2997.9	1507.5	564.8	42.5	1.4	8.5	17.0
51°	5150.8	5071.6	4764.4	3939.2	2697.9	1326.3	494.0	34.0	1.4	8.5	15.6
52°	4897.5	4822.5	4478.5	3666.0	2406.3	1140.9	426.1	28.3	1.4	8.5	17.0
53°	4624.3	4516.7	4143.0	3366.0	2150.1	976.7	356.7	24.1	1.4	8.5	15.6
54°	4280.3	4232.2	3803.3	2997.9	1850.0	818.1	293.0	19.8	1.4	8.5	15.6
55°	3956.2	3885.4	3439.6	2621.4	1578.2	670.9	244.9	15.6	1.4	8.5	15.6
56°	3542.9	3436.7	3019.2	2276.1	1302.2	540.7	206.7	12.7	1.4	8.5	15.6
57°	3050.3	2937.1	2607.3	1892.5	1022.0	411.9	172.7	9.9	1.4	8.5	15.6
58°	2580.4	2482.7	2128.8	1460.8	770.0	285.9	143.0	7.1	1.4	7.1	15.6
59°	2229.3	2121.8	1770.7	1123.9	535.0	210.9	107.6	5.7	1.4	8.5	15.6
60°	1930.7	1792.0	1425.4	870.5	382.2	151.5	79.3	2.8	2.8	8.5	15.6
62.5°	1112.5	982.3	680.8	353.9	157.1	77.9	38.2	1.4	2.8	8.5	15.6
65°	281.7	250.5	162.8	76.4	43.9	26.9	14.2	1.4	2.8	7.1	14.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	9.9	9.9	9.9	8.5	7.1	5.7	2.8	1.4	2.8	7.1	14.2
70°	4.2	4.2	4.2	2.8	2.8	1.4	1.4	1.4	2.8	7.1	12.7
72.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	4.2	7.1	11.3
75°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	4.2	7.1	11.3
77.5°	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	4.2	5.7	9.9
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2	5.7	8.5
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2	5.7	7.1
85°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4	4.2	5.7	5.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	5.7	4.2
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):

	135°	157.5°	180°
0°	72.2	72.2	72.2
2.5°	67.9	67.9	67.9
5°	63.7	63.7	62.3
7.5°	59.4	58.0	58.0
10°	53.8	53.8	53.8
12.5°	49.5	49.5	49.5
15°	45.3	46.7	46.7
17.5°	41.0	43.9	43.9
20°	38.2	41.0	42.5
22.5°	35.4	38.2	39.6
25°	34.0	36.8	38.2
27.5°	31.1	35.4	38.2
30°	29.7	34.0	36.8
31°	29.7	34.0	35.4
32°	28.3	34.0	35.4
33°	28.3	34.0	35.4
34°	28.3	32.6	35.4
35°	26.9	32.6	34.0
36°	26.9	32.6	34.0
37°	26.9	32.6	35.4
38°	26.9	32.6	34.0
39°	25.5	32.6	34.0
40°	25.5	32.6	34.0
41°	25.5	32.6	34.0
42°	25.5	32.6	34.0
43°	25.5	32.6	34.0
44°	25.5	31.1	34.0
45°	25.5	31.1	34.0
46°	25.5	32.6	34.0
47°	25.5	32.6	35.4
48°	25.5	31.1	34.0
49°	24.1	31.1	34.0
50°	24.1	31.1	34.0
51°	24.1	32.6	35.4
52°	24.1	32.6	35.4
53°	24.1	32.6	35.4
54°	24.1	32.6	34.0
55°	24.1	32.6	35.4
56°	24.1	32.6	34.0
57°	24.1	32.6	34.0
58°	24.1	31.1	34.0
59°	24.1	31.1	34.0
60°	24.1	31.1	34.0
62.5°	22.6	31.1	34.0
65°	22.6	29.7	32.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	21.2	29.7	31.1
70°	19.8	28.3	29.7
72.5°	18.4	26.9	28.3
75°	17.0	24.1	25.5
77.5°	14.2	21.2	24.1
80°	12.7	18.4	19.8
82.5°	9.9	15.6	17.0
85°	7.1	11.3	11.3
87.5°	2.8	5.7	5.7
90°	0.0	0.0	0.0

(END OF REPORT)