

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: P1308179

Luminaire Tested: P3SQAS17R359030DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308179
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: P3SQAS17R359030DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

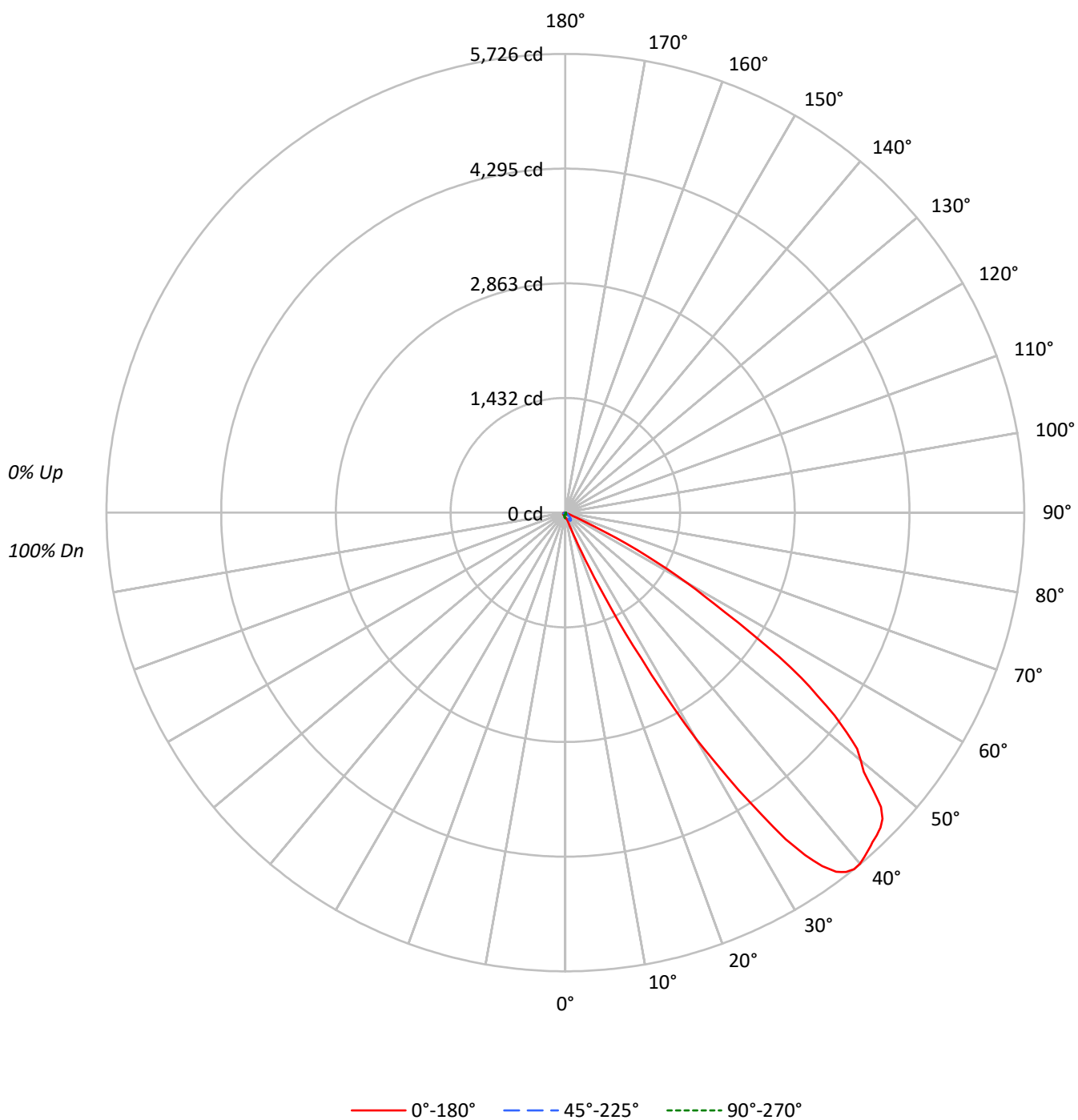
Lumens per Lamp: N/A
Luminaire Lumens: 1426.0 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	89	89	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	37	37	35
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	29
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	26	26	24
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	22	22	20
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11315	11315	11315	11315	11315
5°	12240	12015	11134	10010	9785
10°	12836	11699	9898	8552	8552
15°	18365	11482	8041	7346	7578
20°	46002	12261	6378	6378	7074
25°	213552	15658	4884	5872	6613
30°	649197	21239	3838	5369	6662
35°	1097185	24620	3238	5151	6497
40°	1286109	24303	2608	5216	6947
45°	1354435	17244	2192	5651	7526
50°	1289230	10342	2063	5868	8279
55°	1080309	4264	2312	6576	9668
60°	604777	896	2652	7543	10643
65°	104405	530	2608	8395	12062
70°	1964	655	3223	9064	13596
75°	1730	865	4259	10247	15438
80°	1289	1289	5058	11505	17852
85°	0	2569	10078	12647	20353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1364030 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.4
10°-20°	16.8	1.2
20°-30°	87.5	6.1
30°-40°	377.9	26.5
40°-50°	539.0	37.8
50°-60°	333.8	23.4
60°-70°	50.8	3.6
70°-80°	9.5	0.7
80°-90°	4.8	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°	110.2	7.7
0°-40°	488.1	34.2
0°-60°	1360.9	95.4
0°-90°	1426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1426.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	71	70	64	58	57	7
15°	103	64	45	41	42	37
25°	1124	82	26	31	35	672
35°	5219	117	15	24	31	3133
45°	5561	71	9	23	31	4201
55°	3598	14	8	22	32	3064
65°	256	1	6	21	30	523
75°	3	1	6	15	23	3
85°	0	1	5	6	10	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°	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
2.5°	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	65.7	64.4
5°	70.8	70.8	69.5	69.5	69.5	69.5	69.5	69.5	66.9	64.4	60.5
7.5°	72.1	72.1	70.8	70.8	70.8	70.8	69.5	68.2	65.7	60.5	56.6
10°	73.4	73.4	73.4	73.4	72.1	70.8	69.5	66.9	63.1	56.6	52.8
12.5°	82.4	82.4	81.1	78.5	75.9	73.4	70.8	65.7	57.9	51.5	47.6
15°	103.0	101.7	99.1	95.3	90.1	83.7	78.5	64.4	52.8	45.1	42.5
17.5°	144.2	141.6	137.7	124.9	113.3	101.7	91.4	64.4	47.6	39.9	37.3
20°	251.0	252.3	225.3	194.4	168.6	140.3	114.6	66.9	42.5	34.8	33.5
22.5°	523.9	503.3	439.0	364.3	278.1	215.0	162.2	73.4	37.3	29.6	29.6
25°	1123.8	1045.3	889.5	672.0	473.7	336.0	235.6	82.4	33.5	25.7	27.0
27.5°	2051.9	1981.1	1668.3	1256.4	834.2	507.2	319.2	94.0	29.6	21.9	24.5
30°	3264.5	3068.9	2660.8	2059.6	1394.1	776.2	428.7	106.8	24.5	19.3	23.2
31°	3643.0	3552.9	3056.0	2382.7	1633.5	921.7	475.0	110.7	23.2	19.3	21.9
32°	4092.2	3932.6	3487.2	2736.7	1876.8	1051.7	530.4	114.6	21.9	16.7	21.9
33°	4493.9	4339.4	3797.4	3048.3	2122.7	1199.7	589.6	115.9	19.3	16.7	20.6
34°	4916.1	4705.0	4168.2	3373.9	2375.0	1359.4	643.6	117.1	18.0	15.4	20.6
35°	5218.6	5007.5	4487.4	3631.4	2592.6	1501.0	705.4	117.1	16.7	15.4	19.3
36°	5452.9	5267.5	4762.9	3896.6	2808.8	1628.4	754.3	117.1	14.2	14.2	19.3
37°	5613.8	5437.4	4948.3	4124.4	2973.6	1741.7	798.1	117.1	12.9	14.2	19.3
38°	5692.3	5545.6	5127.2	4290.5	3133.2	1830.5	832.9	114.6	11.6	12.9	18.0
39°	5725.8	5606.1	5236.6	4430.8	3252.9	1907.7	858.6	112.0	10.3	12.9	18.0
40°	5720.6	5616.4	5298.4	4527.3	3349.5	1960.5	872.8	108.1	9.0	11.6	18.0
41°	5691.0	5600.9	5330.6	4609.7	3407.4	1996.6	876.6	104.3	7.7	11.6	16.7
42°	5657.6	5575.2	5340.9	4653.5	3444.7	2008.1	866.3	99.1	7.7	10.3	16.7
43°	5622.8	5546.8	5340.9	4667.6	3453.7	2000.4	849.6	90.1	6.4	10.3	16.7
44°	5594.5	5522.4	5324.1	4663.8	3434.4	1970.8	818.7	79.8	5.1	10.3	16.7
45°	5561.0	5490.2	5302.3	4639.3	3397.1	1920.6	780.1	70.8	3.9	9.0	16.7
46°	5501.8	5446.4	5263.6	4589.1	3337.9	1851.1	731.2	64.4	2.6	9.0	15.4
47°	5387.2	5339.6	5189.0	4514.5	3259.4	1768.7	681.0	57.9	2.6	9.0	15.4
48°	5156.8	5155.5	5039.7	4375.4	3134.5	1665.7	628.2	51.5	2.6	9.0	15.4
49°	4934.1	4910.9	4766.8	4130.9	2955.6	1542.1	572.8	46.3	1.3	9.0	15.4
50°	4811.8	4761.6	4524.8	3842.5	2726.4	1370.9	513.6	38.6	1.3	7.7	15.4
51°	4684.4	4612.3	4333.0	3582.5	2453.5	1206.2	449.3	30.9	1.3	7.7	14.2
52°	4454.0	4385.7	4072.9	3334.0	2188.4	1037.5	387.5	25.7	1.3	7.7	15.4
53°	4205.5	4107.7	3767.8	3061.1	1955.4	888.2	324.4	21.9	1.3	7.7	14.2
54°	3892.7	3848.9	3458.9	2726.4	1682.5	744.0	266.5	18.0	1.3	7.7	14.2
55°	3597.9	3533.6	3128.1	2384.0	1435.3	610.2	222.7	14.2	1.3	7.7	14.2
56°	3222.0	3125.5	2745.7	2069.9	1184.3	491.7	187.9	11.6	1.3	7.7	14.2
57°	2774.1	2671.1	2371.2	1721.1	929.4	374.6	157.0	9.0	1.3	7.7	14.2
58°	2346.7	2257.9	1936.1	1328.5	700.3	260.0	130.0	6.4	1.3	6.4	14.2
59°	2027.5	1929.6	1610.4	1022.1	486.6	191.8	97.8	5.1	1.3	7.7	14.2
60°	1755.8	1629.7	1296.3	791.7	347.6	137.7	72.1	2.6	2.6	7.7	14.2
62.5°	1011.8	893.4	619.2	321.8	142.9	70.8	34.8	1.3	2.6	7.7	14.2
65°	256.2	227.8	148.0	69.5	39.9	24.5	12.9	1.3	2.6	6.4	12.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	9.0	9.0	9.0	7.7	6.4	5.1	2.6	1.3	2.6	6.4	12.9
70°	3.9	3.9	3.9	2.6	2.6	1.3	1.3	1.3	2.6	6.4	11.6
72.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	3.9	6.4	10.3
75°	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	3.9	6.4	10.3
77.5°	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	3.9	5.1	9.0
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	3.9	5.1	7.7
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	3.9	5.1	6.4
85°	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	3.9	5.1	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	5.1	3.9
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°	65.7	65.7	65.7
2.5°	61.8	61.8	61.8
5°	57.9	57.9	56.6
7.5°	54.1	52.8	52.8
10°	48.9	48.9	48.9
12.5°	45.1	45.1	45.1
15°	41.2	42.5	42.5
17.5°	37.3	39.9	39.9
20°	34.8	37.3	38.6
22.5°	32.2	34.8	36.0
25°	30.9	33.5	34.8
27.5°	28.3	32.2	34.8
30°	27.0	30.9	33.5
31°	27.0	30.9	32.2
32°	25.7	30.9	32.2
33°	25.7	30.9	32.2
34°	25.7	29.6	32.2
35°	24.5	29.6	30.9
36°	24.5	29.6	30.9
37°	24.5	29.6	32.2
38°	24.5	29.6	30.9
39°	23.2	29.6	30.9
40°	23.2	29.6	30.9
41°	23.2	29.6	30.9
42°	23.2	29.6	30.9
43°	23.2	29.6	30.9
44°	23.2	28.3	30.9
45°	23.2	28.3	30.9
46°	23.2	29.6	30.9
47°	23.2	29.6	32.2
48°	23.2	28.3	30.9
49°	21.9	28.3	30.9
50°	21.9	28.3	30.9
51°	21.9	29.6	32.2
52°	21.9	29.6	32.2
53°	21.9	29.6	32.2
54°	21.9	29.6	30.9
55°	21.9	29.6	32.2
56°	21.9	29.6	30.9
57°	21.9	29.6	30.9
58°	21.9	28.3	30.9
59°	21.9	28.3	30.9
60°	21.9	28.3	30.9
62.5°	20.6	28.3	30.9
65°	20.6	27.0	29.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	19.3	27.0	28.3
70°	18.0	25.7	27.0
72.5°	16.7	24.5	25.7
75°	15.4	21.9	23.2
77.5°	12.9	19.3	21.9
80°	11.6	16.7	18.0
82.5°	9.0	14.2	15.4
85°	6.4	10.3	10.3
87.5°	2.6	5.1	5.1
90°	0.0	0.0	0.0

(END OF REPORT)