

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: P1315516

Luminaire Tested: P3SQAS17R359740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315516
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: P3SQAS17R359740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

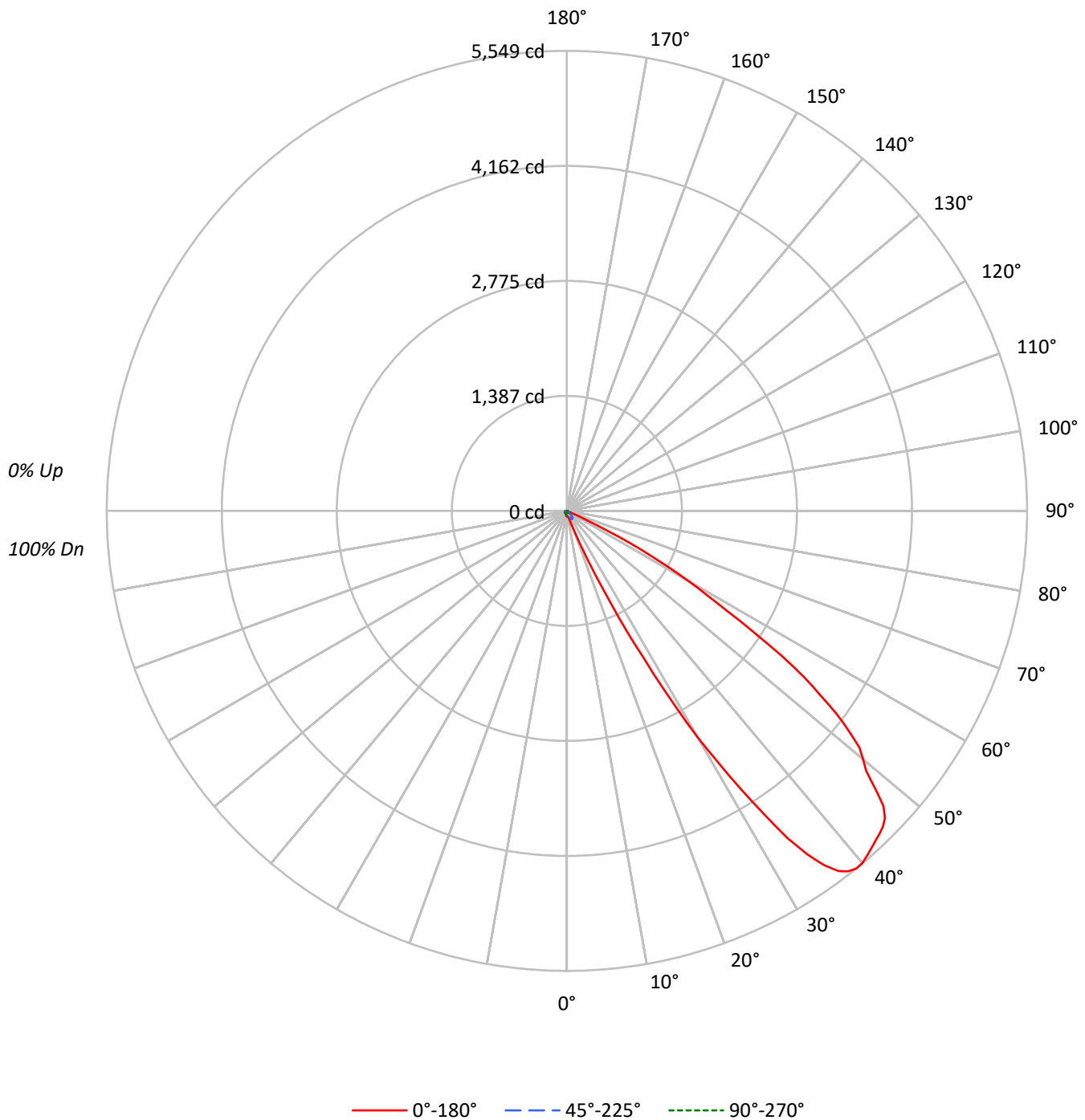
Lumens per Lamp: N/A
Luminaire Lumens: 1381.9 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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°	10953	10953	10953	10953	10953
5°	11860	11652	10788	9699	9491
10°	12434	11350	9601	8289	8289
15°	17794	11126	7792	7114	7346
20°	44591	11895	6176	6176	6855
25°	206958	15164	4751	5682	6404
30°	629171	20583	3719	5210	6443
35°	1063335	23863	3154	4983	6286
40°	1246428	23561	2518	5058	6722
45°	1312640	16708	2119	5480	7282
50°	1249442	10021	2009	5680	8011
55°	1046980	4114	2252	6366	9368
60°	586143	861	2583	7302	10299
65°	101186	489	2527	8150	11696
70°	1863	604	3122	8812	13193
75°	1664	799	4126	9981	14972
80°	1190	1190	4959	11108	17356
85°	0	2371	9880	12251	19760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1321932 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.4
10°-20°	16.3	1.2
20°-30°	84.8	6.1
30°-40°	366.2	26.5
40°-50°	522.4	37.8
50°-60°	323.5	23.4
60°-70°	49.2	3.6
70°-80°	9.2	0.7
80°-90°	4.6	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°	106.8	7.7
0°-40°	473.0	34.2
0°-60°	1318.9	95.4
0°-90°	1381.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1381.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	69	67	62	56	55	7
15°	100	62	44	40	41	36
25°	1089	80	25	30	34	652
35°	5058	114	15	24	30	3037
45°	5389	69	9	22	30	4072
55°	3487	14	8	21	31	2970
65°	248	1	6	20	29	507
75°	2	1	6	15	22	3
85°	0	1	5	6	10	0
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°	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
2.5°	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	63.6	62.4
5°	68.6	68.6	67.4	67.4	67.4	67.4	67.4	67.4	64.9	62.4	58.6
7.5°	69.9	69.9	68.6	68.6	68.6	68.6	67.4	66.1	63.6	58.6	54.9
10°	71.1	71.1	71.1	71.1	69.9	68.6	67.4	64.9	61.1	54.9	51.1
12.5°	79.8	79.8	78.6	76.1	73.6	71.1	68.6	63.6	56.1	49.9	46.2
15°	99.8	98.6	96.1	92.3	87.3	81.1	76.1	62.4	51.1	43.7	41.2
17.5°	139.7	137.2	133.5	121.0	109.8	98.6	88.6	62.4	46.2	38.7	36.2
20°	243.3	244.5	218.3	188.4	163.4	136.0	111.0	64.9	41.2	33.7	32.4
22.5°	507.8	487.8	425.4	353.1	269.5	208.3	157.2	71.1	36.2	28.7	28.7
25°	1089.1	1013.0	862.1	651.2	459.1	325.6	228.3	79.8	32.4	25.0	26.2
27.5°	1988.6	1920.0	1616.8	1217.6	808.4	491.5	309.4	91.1	28.7	21.2	23.7
30°	3163.8	2974.2	2578.7	1996.1	1351.1	752.3	415.4	103.5	23.7	18.7	22.5
31°	3530.6	3443.2	2961.7	2309.2	1583.1	893.2	460.3	107.3	22.5	18.7	21.2
32°	3966.0	3811.3	3379.6	2652.3	1818.9	1019.2	514.0	111.0	21.2	16.2	21.2
33°	4355.2	4205.5	3680.3	2954.2	2057.2	1162.7	571.4	112.3	18.7	16.2	20.0
34°	4764.4	4559.8	4039.6	3269.8	2301.7	1317.4	623.8	113.5	17.5	15.0	20.0
35°	5057.6	4853.0	4349.0	3519.3	2512.6	1454.6	683.7	113.5	16.2	15.0	18.7
36°	5284.6	5105.0	4615.9	3776.3	2722.2	1578.2	731.1	113.5	13.7	13.7	18.7
37°	5440.6	5269.7	4795.6	3997.2	2881.8	1687.9	773.5	113.5	12.5	13.7	18.7
38°	5516.7	5374.4	4969.0	4158.1	3036.5	1774.0	807.2	111.0	11.2	12.5	17.5
39°	5549.1	5433.1	5075.0	4294.1	3152.6	1848.9	832.1	108.5	10.0	12.5	17.5
40°	5544.1	5443.1	5134.9	4387.6	3246.1	1900.0	845.8	104.8	8.7	11.2	17.5
41°	5515.4	5428.1	5166.1	4467.5	3302.3	1935.0	849.6	101.1	7.5	11.2	16.2
42°	5483.0	5403.1	5176.1	4509.9	3338.4	1946.2	839.6	96.1	7.5	10.0	16.2
43°	5449.3	5375.7	5176.1	4523.6	3347.2	1938.7	823.4	87.3	6.2	10.0	16.2
44°	5421.9	5352.0	5159.9	4519.9	3328.5	1910.0	793.4	77.3	5.0	10.0	16.2
45°	5389.4	5320.8	5138.7	4496.2	3292.3	1861.3	756.0	68.6	3.7	8.7	16.2
46°	5332.0	5278.4	5101.2	4447.5	3234.9	1794.0	708.6	62.4	2.5	8.7	15.0
47°	5221.0	5174.8	5028.9	4375.2	3158.8	1714.1	660.0	56.1	2.5	8.7	15.0
48°	4997.7	4996.4	4884.2	4240.4	3037.8	1614.3	608.8	49.9	2.5	8.7	15.0
49°	4781.9	4759.4	4619.7	4003.4	2864.4	1494.6	555.2	44.9	1.2	8.7	15.0
50°	4663.3	4614.7	4385.1	3723.9	2642.3	1328.6	497.8	37.4	1.2	7.5	15.0
51°	4539.8	4470.0	4199.3	3471.9	2377.8	1169.0	435.4	29.9	1.2	7.5	13.7
52°	4316.5	4250.4	3947.3	3231.2	2120.8	1005.5	375.5	25.0	1.2	7.5	15.0
53°	4075.7	3980.9	3651.6	2966.7	1895.0	860.8	314.4	21.2	1.2	7.5	13.7
54°	3772.6	3730.2	3352.2	2642.3	1630.5	721.1	258.2	17.5	1.2	7.5	13.7
55°	3486.9	3424.5	3031.5	2310.5	1391.0	591.3	215.8	13.7	1.2	7.5	13.7
56°	3122.6	3029.1	2661.0	2006.1	1147.7	476.6	182.1	11.2	1.2	7.5	13.7
57°	2688.5	2588.7	2298.0	1668.0	900.7	363.0	152.2	8.7	1.2	7.5	13.7
58°	2274.3	2188.2	1876.3	1287.5	678.7	252.0	126.0	6.2	1.2	6.2	13.7
59°	1964.9	1870.1	1560.7	990.6	471.6	185.9	94.8	5.0	1.2	7.5	13.7
60°	1701.7	1579.4	1256.3	767.2	336.8	133.5	69.9	2.5	2.5	7.5	13.7
62.5°	980.6	865.8	600.1	311.9	138.5	68.6	33.7	1.2	2.5	7.5	13.7
65°	248.3	220.8	143.5	67.4	38.7	23.7	12.5	1.2	2.5	6.2	12.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	8.7	8.7	8.7	7.5	6.2	5.0	2.5	1.2	2.5	6.2	12.5
70°	3.7	3.7	3.7	2.5	2.5	1.2	1.2	1.2	2.5	6.2	11.2
72.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	6.2	10.0
75°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	6.2	10.0
77.5°	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	3.7	5.0	8.7
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	5.0	7.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	5.0	6.2
85°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	3.7	5.0	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.7	5.0	3.7
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°	63.6	63.6	63.6
2.5°	59.9	59.9	59.9
5°	56.1	56.1	54.9
7.5°	52.4	51.1	51.1
10°	47.4	47.4	47.4
12.5°	43.7	43.7	43.7
15°	39.9	41.2	41.2
17.5°	36.2	38.7	38.7
20°	33.7	36.2	37.4
22.5°	31.2	33.7	34.9
25°	29.9	32.4	33.7
27.5°	27.4	31.2	33.7
30°	26.2	29.9	32.4
31°	26.2	29.9	31.2
32°	25.0	29.9	31.2
33°	25.0	29.9	31.2
34°	25.0	28.7	31.2
35°	23.7	28.7	29.9
36°	23.7	28.7	29.9
37°	23.7	28.7	31.2
38°	23.7	28.7	29.9
39°	22.5	28.7	29.9
40°	22.5	28.7	29.9
41°	22.5	28.7	29.9
42°	22.5	28.7	29.9
43°	22.5	28.7	29.9
44°	22.5	27.4	29.9
45°	22.5	27.4	29.9
46°	22.5	28.7	29.9
47°	22.5	28.7	31.2
48°	22.5	27.4	29.9
49°	21.2	27.4	29.9
50°	21.2	27.4	29.9
51°	21.2	28.7	31.2
52°	21.2	28.7	31.2
53°	21.2	28.7	31.2
54°	21.2	28.7	29.9
55°	21.2	28.7	31.2
56°	21.2	28.7	29.9
57°	21.2	28.7	29.9
58°	21.2	27.4	29.9
59°	21.2	27.4	29.9
60°	21.2	27.4	29.9
62.5°	20.0	27.4	29.9
65°	20.0	26.2	28.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	18.7	26.2	27.4
70°	17.5	25.0	26.2
72.5°	16.2	23.7	25.0
75°	15.0	21.2	22.5
77.5°	12.5	18.7	21.2
80°	11.2	16.2	17.5
82.5°	8.7	13.7	15.0
85°	6.2	10.0	10.0
87.5°	2.5	5.0	5.0
90°	0.0	0.0	0.0

(END OF REPORT)