

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: P1310399

Luminaire Tested: P3SQAS17R309040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310399
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: P3SQAS17R309040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

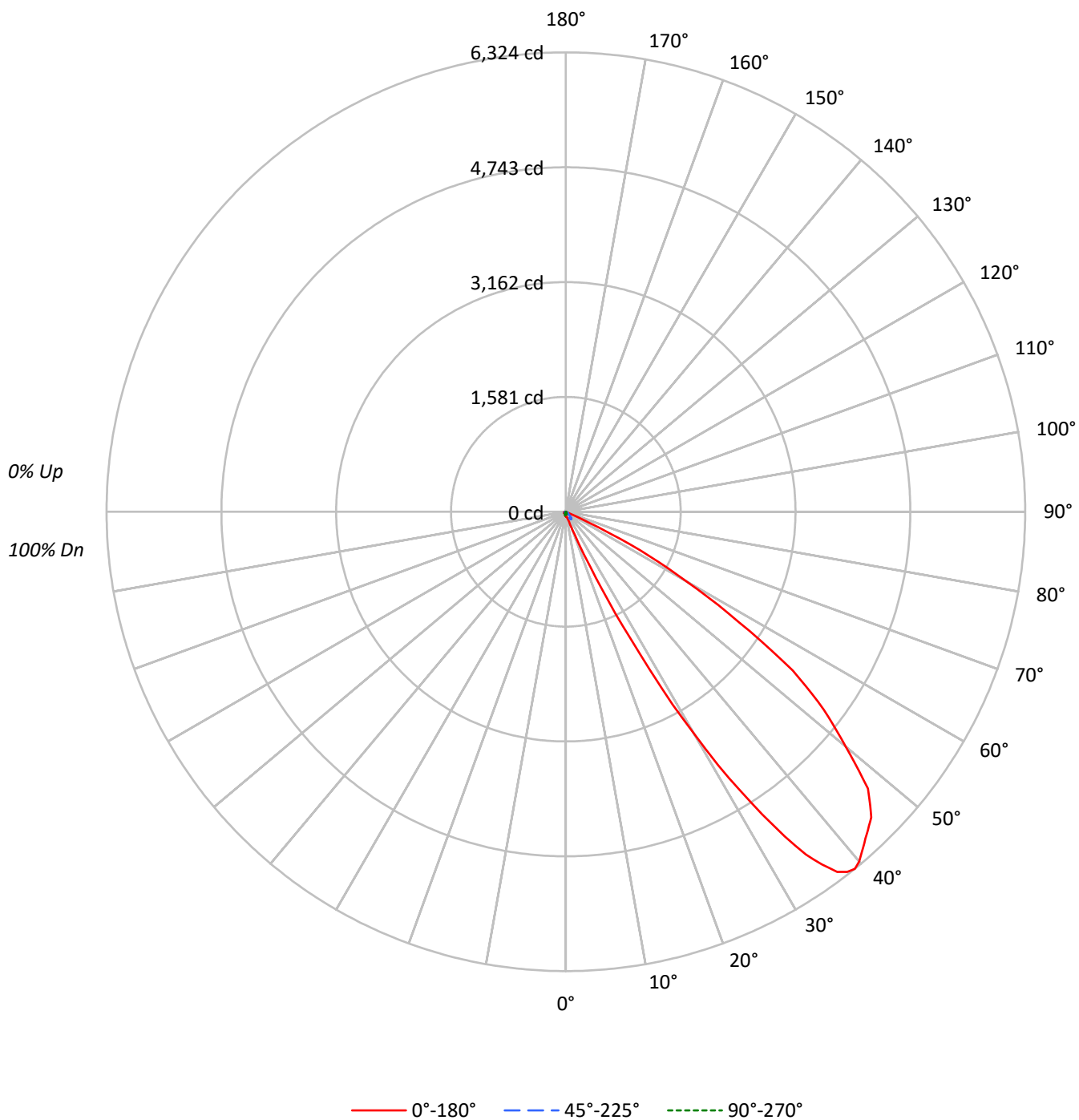
Lumens per Lamp: N/A
Luminaire Lumens: 1644.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	108	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	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24		
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10971	10971	10971	10971	10971
5°	11739	11497	10770	9820	9578
10°	12836	11385	9443	8482	8237
15°	18757	11358	7899	7168	7399
20°	47212	12444	6085	6085	6855
25°	219215	15525	4732	5530	6309
30°	697859	21477	3580	5230	6344
35°	1210906	26197	2901	4941	6412
40°	1412234	26147	2181	4991	6542
45°	1448327	18559	2363	5407	7088
50°	1346888	10396	1849	5573	8172
55°	1144745	5405	2072	6245	9158
60°	661128	1447	2377	6682	10023
65°	134887	0	2812	7906	11288
70°	2115	705	3474	9064	13243
75°	1863	932	3660	9183	15637
80°	1389	1389	5455	11009	17852
85°	0	2766	10868	10868	21934

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1448327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.8	0.4
10°-20°	16.6	1.0
20°-30°	94.8	5.8
30°-40°	442.8	26.9
40°-50°	626.2	38.1
50°-60°	385.2	23.4
60°-70°	58.7	3.6
70°-80°	9.3	0.6
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°	117.1	7.1
0°-40°	560.0	34.1
0°-60°	1571.4	95.6
0°-90°	1644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	68	66	62	57	55	7
15°	105	64	44	40	42	37
25°	1154	82	25	29	33	710
35°	5760	125	14	24	30	3457
45°	5946	76	10	22	29	4508
55°	3812	18	7	21	30	3244
65°	331	0	7	19	28	599
75°	3	1	6	14	24	3
85°	0	1	6	6	11	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°	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
2.5°	65.1	65.1	66.5	66.5	65.1	66.5	66.5	66.5	63.7	62.3	59.5
5°	67.9	67.9	67.9	69.2	67.9	67.9	66.5	65.1	62.3	58.2	56.8
7.5°	70.6	70.6	69.2	70.6	69.2	69.2	66.5	63.7	59.5	55.4	52.6
10°	73.4	73.4	72.0	72.0	70.6	70.6	65.1	60.9	54.0	49.9	48.5
12.5°	81.7	81.7	80.3	78.9	76.2	74.8	63.7	56.8	48.5	44.3	42.9
15°	105.2	103.9	101.1	96.9	90.0	88.6	63.7	52.6	44.3	40.2	40.2
17.5°	144.0	142.6	138.5	127.4	114.9	110.8	63.7	47.1	38.8	36.0	36.0
20°	257.6	246.5	225.7	198.0	169.0	153.7	67.9	41.5	33.2	31.9	33.2
21°	336.5	325.4	299.1	253.4	202.2	185.6	70.6	40.2	31.9	30.5	33.2
22°	458.4	445.9	391.9	329.6	256.2	227.1	72.0	37.4	29.1	29.1	31.9
23°	639.8	619.0	527.6	427.9	319.9	278.4	74.8	36.0	27.7	29.1	30.5
24°	837.8	819.8	716.0	566.4	408.5	349.0	77.6	34.6	26.3	26.3	29.1
25°	1153.6	1132.8	948.6	714.6	517.9	419.6	81.7	31.9	24.9	24.9	29.1
26°	1562.1	1466.5	1221.4	920.9	638.4	526.2	85.9	30.5	23.5	24.9	27.7
27°	1949.8	1870.9	1595.3	1181.3	789.4	646.7	91.4	29.1	22.2	23.5	27.7
28°	2459.5	2348.7	2001.1	1494.2	994.3	782.4	96.9	27.7	20.8	23.5	26.3
29°	3030.0	2874.9	2455.3	1846.0	1225.6	934.8	102.5	26.3	19.4	22.2	26.3
30°	3509.2	3363.8	2944.2	2262.8	1491.5	1135.6	108.0	24.9	18.0	22.2	26.3
31°	4071.4	3851.2	3343.0	2616.0	1720.0	1336.4	113.6	22.2	16.6	20.8	24.9
32°	4527.0	4373.3	3833.2	3014.8	2020.5	1557.9	117.7	20.8	16.6	20.8	24.9
33°	4967.4	4761.1	4239.0	3397.0	2291.9	1785.1	121.9	19.4	15.2	19.4	24.9
34°	5388.4	5198.7	4622.6	3705.8	2548.1	2001.1	124.6	16.6	15.2	19.4	23.5
35°	5759.5	5539.3	4960.5	4007.7	2811.2	2197.7	124.6	15.2	13.8	18.0	23.5
36°	6000.5	5842.6	5254.1	4305.5	3049.4	2384.7	124.6	13.8	12.5	18.0	22.2
37°	6206.8	6022.7	5489.5	4534.0	3225.3	2534.3	124.6	12.5	12.5	18.0	22.2
38°	6291.3	6133.4	5651.5	4736.1	3390.1	2686.6	123.3	11.1	11.1	16.6	22.2
39°	6324.5	6183.3	5773.4	4881.5	3511.9	2789.1	120.5	9.7	11.1	16.6	22.2
40°	6281.6	6175.0	5835.7	4975.7	3608.9	2863.8	116.3	8.3	9.7	16.6	22.2
42.5°	6104.4	6033.7	5821.9	5069.9	3692.0	2919.2	101.1	5.5	9.7	15.2	22.2
45°	5946.5	5868.9	5682.0	4971.6	3584.0	2809.8	76.2	2.8	9.7	15.2	22.2
47.5°	5640.4	5592.0	5445.2	4720.9	3347.1	2563.3	54.0	1.4	8.3	13.8	20.8
50°	5027.0	4981.3	4787.4	4099.1	2879.1	2167.3	38.8	1.4	6.9	13.8	20.8
52.5°	4477.2	4428.7	4150.4	3408.1	2211.6	1588.4	24.9	1.4	6.9	13.8	20.8
55°	3812.5	3728.0	3362.4	2586.9	1567.6	1064.9	18.0	1.4	6.9	12.5	20.8
57.5°	2822.3	2699.0	2372.2	1764.3	902.9	577.5	9.7	1.4	6.9	12.5	20.8
60°	1919.4	1846.0	1484.5	930.6	385.0	243.7	4.2	1.4	6.9	12.5	19.4
62.5°	1163.3	1070.5	746.4	396.1	166.2	110.8	0.0	2.8	6.9	12.5	19.4
65°	331.0	293.6	195.3	90.0	47.1	36.0	0.0	2.8	6.9	12.5	19.4
67.5°	11.1	11.1	11.1	9.7	6.9	6.9	1.4	2.8	6.9	12.5	18.0
70°	4.2	4.2	4.2	2.8	2.8	1.4	1.4	2.8	6.9	11.1	18.0
72.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	2.8	5.5	9.7	16.6
75°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	4.2	5.5	9.7	13.8
77.5°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	4.2	5.5	8.3	13.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2	5.5	8.3	11.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	1.4	1.4	1.4	0.0	0.0	0.0	1.4	4.2	5.5	5.5	8.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	5.5	4.2	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	4.2	4.2	2.8
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):

	157.5°	180°
0°	63.7	63.7
2.5°	59.5	59.5
5°	55.4	55.4
7.5°	51.2	51.2
10°	47.1	47.1
12.5°	44.3	44.3
15°	40.2	41.5
17.5°	37.4	38.8
20°	36.0	37.4
21°	36.0	37.4
22°	34.6	36.0
23°	34.6	36.0
24°	33.2	34.6
25°	31.9	33.2
26°	31.9	33.2
27°	31.9	33.2
28°	30.5	33.2
29°	30.5	31.9
30°	30.5	31.9
31°	29.1	31.9
32°	29.1	31.9
33°	29.1	30.5
34°	27.7	30.5
35°	27.7	30.5
36°	27.7	30.5
37°	27.7	29.1
38°	27.7	30.5
39°	27.7	29.1
40°	27.7	29.1
42.5°	27.7	29.1
45°	27.7	29.1
47.5°	27.7	30.5
50°	27.7	30.5
52.5°	27.7	30.5
55°	27.7	30.5
57.5°	27.7	29.1
60°	27.7	29.1
62.5°	26.3	29.1
65°	26.3	27.7
67.5°	26.3	27.7
70°	24.9	26.3
72.5°	23.5	24.9
75°	20.8	23.5
77.5°	19.4	20.8
80°	16.6	18.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	13.8	13.8
85°	9.7	11.1
87.5°	5.5	5.5
90°	0.0	0.0

(END OF REPORT)