

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: P1309168

Luminaire Tested: P3SQAS13R459035DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R459035DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

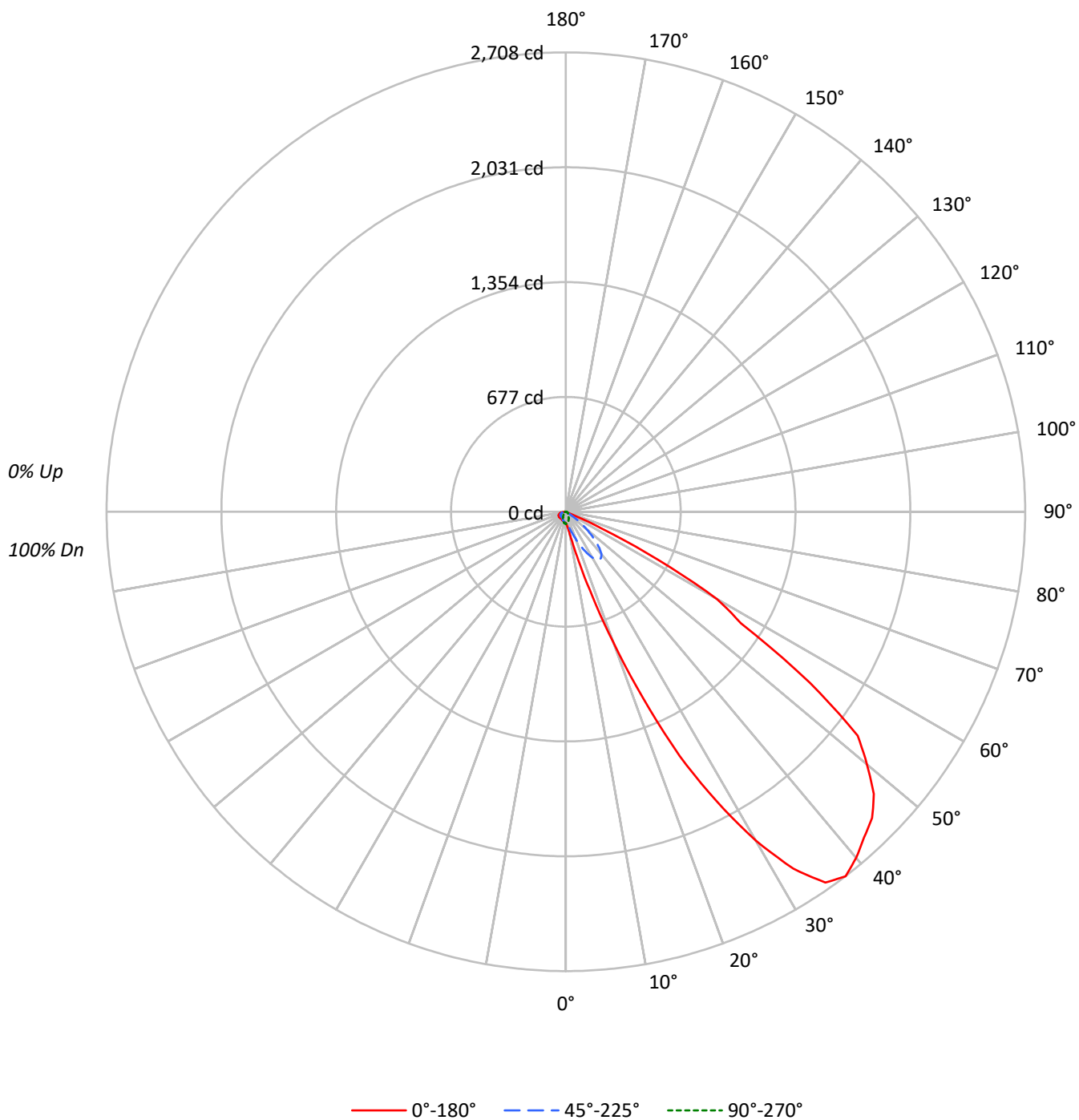
Lumens per Lamp: N/A
Luminaire Lumens: 1210.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12056	12056	12056	12056	12056
5°	14349	13312	11929	11064	11064
10°	22909	15564	11192	10493	10493
15°	57038	20861	10163	9806	10163
20°	150249	31157	8797	9347	9897
25°	301705	46157	7601	8741	9691
30°	444763	61827	6165	8551	9943
35°	561018	72514	5256	8410	10302
40°	598585	73269	4721	8768	11016
45°	621929	61109	4384	9499	11934
50°	620930	42601	4287	10181	13397
55°	527739	18916	4504	11410	14713
60°	354710	3789	4478	12744	16878
65°	94136	1630	4483	13855	19153
70°	2518	2014	4532	15106	21652
75°	1996	1996	4658	15970	24620
80°	1984	2975	4959	16860	27770
85°	1976	3952	7904	17784	27664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 637942 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.6
10°-20°	34.1	2.8
20°-30°	140.8	11.6
30°-40°	296.7	24.5
40°-50°	366.0	30.2
50°-60°	274.3	22.7
60°-70°	70.6	5.8
70°-80°	14.6	1.2
80°-90°	5.9	0.5
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°	181.9	15.0
0°-40°	478.5	39.5
0°-60°	1118.9	92.5
0°-90°	1210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1210.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	83	77	69	64	64	9
15°	320	117	57	55	57	117
25°	1588	243	40	46	51	740
35°	2668	345	25	40	49	1626
45°	2554	251	18	39	49	1954
55°	1758	63	15	38	49	1518
65°	231	4	11	34	47	333
75°	3	3	7	24	37	4
85°	1	2	4	9	14	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°	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
2.5°	74.0	74.0	74.0	74.0	74.0	74.0	74.0	73.0	72.0	70.0	68.0
5°	83.0	82.0	82.0	82.0	81.0	80.0	80.0	77.0	73.0	69.0	66.0
7.5°	98.0	98.0	97.0	95.0	94.0	92.0	90.0	82.0	73.0	67.0	63.0
10°	131.0	129.0	126.0	124.0	119.0	112.0	107.0	89.0	72.0	64.0	61.0
12.5°	196.0	200.0	190.0	180.0	166.0	153.0	137.0	101.0	72.0	61.0	58.0
15°	319.9	326.9	307.9	287.9	253.9	222.0	192.0	117.0	70.0	57.0	54.0
17.5°	522.9	531.9	499.9	452.9	399.9	335.9	280.9	139.0	68.0	53.0	51.0
20°	819.8	818.8	756.8	697.9	595.9	501.9	398.9	170.0	65.0	48.0	48.0
22.5°	1184.8	1188.8	1112.8	1006.8	861.8	710.9	546.9	206.0	61.0	44.0	45.0
25°	1587.7	1553.7	1463.7	1334.7	1149.8	940.8	724.9	242.9	57.0	40.0	42.0
27.5°	1923.6	1890.6	1787.6	1634.7	1435.7	1187.8	905.8	279.9	52.0	36.0	39.0
30°	2236.5	2194.5	2070.6	1897.6	1660.7	1392.7	1075.8	310.9	46.0	31.0	36.0
32.5°	2494.5	2456.5	2315.5	2114.6	1856.6	1568.7	1219.7	334.9	40.0	28.0	34.0
35°	2668.4	2629.5	2499.5	2278.5	1997.6	1696.6	1336.7	344.9	35.0	25.0	33.0
37.5°	2708.4	2687.4	2594.5	2387.5	2094.6	1778.6	1411.7	341.9	29.0	23.0	31.0
40°	2662.5	2667.4	2623.5	2451.5	2146.6	1813.6	1442.7	325.9	24.0	21.0	30.0
42.5°	2603.5	2616.5	2613.5	2477.5	2168.6	1815.6	1429.7	293.9	19.0	19.0	29.0
45°	2553.5	2566.5	2584.5	2466.5	2153.6	1789.6	1388.7	250.9	14.0	18.0	29.0
47.5°	2462.5	2476.5	2502.5	2378.5	2077.6	1722.6	1314.7	204.0	10.0	17.0	28.0
50°	2317.5	2324.5	2317.5	2178.6	1931.6	1614.7	1194.8	159.0	7.0	16.0	28.0
52.5°	2168.6	2154.6	2096.6	1920.6	1699.6	1443.7	1043.8	113.0	5.0	15.0	27.0
55°	1757.6	1735.6	1692.7	1584.7	1458.7	1233.7	843.8	63.0	5.0	15.0	26.0
57.5°	1224.7	1236.7	1251.7	1229.7	1171.8	971.8	640.9	28.0	5.0	14.0	26.0
60°	1029.8	1019.8	1020.8	1006.8	910.8	708.9	440.9	11.0	5.0	13.0	25.0
62.5°	614.9	621.9	634.9	637.9	542.9	395.9	231.0	5.0	5.0	12.0	24.0
65°	231.0	242.0	212.0	184.0	146.0	107.0	54.0	4.0	6.0	11.0	22.0
67.5°	7.0	8.0	10.0	9.0	9.0	8.0	6.0	4.0	6.0	10.0	21.0
70°	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	5.0	9.0	19.0
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0	8.0	17.0
75°	3.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	5.0	7.0	14.0
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	6.0	12.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	4.0	5.0	10.0
82.5°	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	4.0	4.0	8.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.0	5.0
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.0	3.0	3.0	3.0
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°	70.0	70.0	70.0
2.5°	66.0	66.0	66.0
5°	64.0	64.0	64.0
7.5°	62.0	62.0	62.0
10°	60.0	60.0	60.0
12.5°	58.0	58.0	59.0
15°	55.0	57.0	57.0
17.5°	53.0	55.0	56.0
20°	51.0	53.0	54.0
22.5°	48.0	51.0	53.0
25°	46.0	50.0	51.0
27.5°	44.0	49.0	51.0
30°	43.0	48.0	50.0
32.5°	41.0	47.0	49.0
35°	40.0	47.0	49.0
37.5°	40.0	46.0	49.0
40°	39.0	46.0	49.0
42.5°	39.0	46.0	49.0
45°	39.0	46.0	49.0
47.5°	38.0	46.0	50.0
50°	38.0	47.0	50.0
52.5°	38.0	47.0	50.0
55°	38.0	47.0	49.0
57.5°	37.0	46.0	49.0
60°	37.0	46.0	49.0
62.5°	35.0	45.0	48.0
65°	34.0	44.0	47.0
67.5°	32.0	43.0	45.0
70°	30.0	40.0	43.0
72.5°	27.0	38.0	41.0
75°	24.0	35.0	37.0
77.5°	21.0	31.0	33.0
80°	17.0	26.0	28.0
82.5°	13.0	20.0	21.0
85°	9.0	13.0	14.0
87.5°	4.0	6.0	7.0
90°	0.0	0.0	0.0

(END OF REPORT)