

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: P1314570

Luminaire Tested: P3SQAS17R459735DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314570
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: P3SQAS17R459735DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

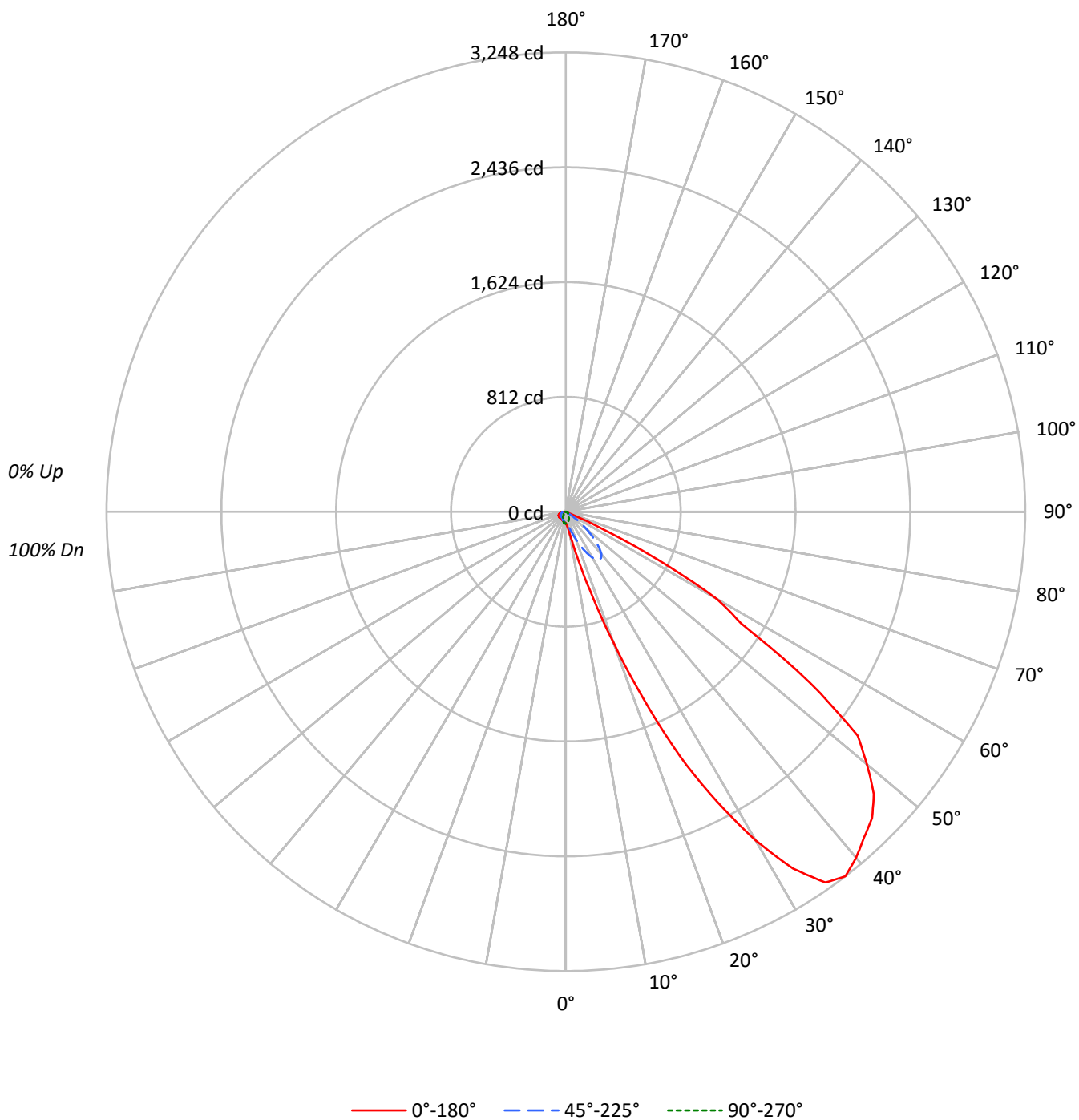
Lumens per Lamp: N/A
Luminaire Lumens: 1451.1 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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	35	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°	14449	14449	14449	14449	14449
5°	17202	15957	14297	13260	13260
10°	27474	18660	13413	12574	12574
15°	68413	25015	12178	11750	12178
20°	180178	37352	10538	11198	11858
25°	361792	55355	9121	10489	11611
30°	533357	74157	7398	10261	11912
35°	672763	86957	6307	10092	12341
40°	717785	87860	5665	10522	13197
45°	745804	73287	5261	11399	14297
50°	744607	51068	5144	12218	16049
55°	632860	22670	5405	13692	17625
60°	425355	4547	5373	15293	20219
65°	112881	1956	5379	16627	22943
70°	3021	2417	5438	18128	25983
75°	2396	2396	5590	19164	29545
80°	2380	3570	5951	20233	33324
85°	2371	4742	9485	21341	33197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 764995 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.6
10°-20°	40.9	2.8
20°-30°	168.8	11.6
30°-40°	355.7	24.5
40°-50°	438.9	30.2
50°-60°	329.0	22.7
60°-70°	84.7	5.8
70°-80°	17.6	1.2
80°-90°	7.1	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°	218.1	15.0
0°-40°	573.8	39.5
0°-60°	1341.7	92.5
0°-90°	1451.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1451.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	100	92	83	77	77	11
15°	384	140	68	66	68	140
25°	1904	291	48	55	61	887
35°	3200	414	30	48	59	1950
45°	3062	301	22	47	59	2343
55°	2108	76	18	46	59	1820
65°	277	5	13	41	56	399
75°	4	4	8	29	44	4
85°	1	2	5	11	17	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°	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
2.5°	88.7	88.7	88.7	88.7	88.7	88.7	88.7	87.5	86.3	83.9	81.5
5°	99.5	98.3	98.3	98.3	97.1	95.9	95.9	92.3	87.5	82.7	79.1
7.5°	117.5	117.5	116.3	113.9	112.7	110.3	107.9	98.3	87.5	80.3	75.5
10°	157.1	154.7	151.1	148.7	142.7	134.3	128.3	106.7	86.3	76.7	73.1
12.5°	235.0	239.8	227.8	215.8	199.0	183.4	164.3	121.1	86.3	73.1	69.5
15°	383.7	392.0	369.3	345.3	304.5	266.2	230.2	140.3	83.9	68.3	64.7
17.5°	627.0	637.8	599.5	543.1	479.6	402.8	336.9	166.7	81.5	63.5	61.1
20°	983.1	981.9	907.6	836.9	714.6	601.9	478.4	203.8	77.9	57.5	57.5
22.5°	1420.7	1425.5	1334.4	1207.3	1033.5	852.4	655.8	247.0	73.1	52.8	54.0
25°	1903.9	1863.1	1755.2	1600.6	1378.8	1128.2	869.2	291.3	68.3	48.0	50.4
27.5°	2306.7	2267.2	2143.7	1960.2	1721.7	1424.3	1086.2	335.7	62.3	43.2	46.8
30°	2682.0	2631.6	2483.0	2275.6	1991.4	1670.1	1290.0	372.9	55.2	37.2	43.2
32.5°	2991.3	2945.8	2776.7	2535.7	2226.4	1881.1	1462.7	401.6	48.0	33.6	40.8
35°	3199.9	3153.2	2997.3	2732.4	2395.5	2034.6	1603.0	413.6	42.0	30.0	39.6
37.5°	3247.9	3222.7	3111.2	2863.0	2511.8	2132.9	1692.9	410.0	34.8	27.6	37.2
40°	3192.7	3198.7	3146.0	2939.8	2574.1	2174.9	1730.1	390.8	28.8	25.2	36.0
42.5°	3122.0	3137.6	3134.0	2970.9	2600.5	2177.2	1714.5	352.5	22.8	22.8	34.8
45°	3062.1	3077.6	3099.2	2957.8	2582.5	2146.1	1665.3	300.9	16.8	21.6	34.8
47.5°	2953.0	2969.7	3000.9	2852.2	2491.4	2065.7	1576.6	244.6	12.0	20.4	33.6
50°	2779.1	2787.5	2779.1	2612.5	2316.3	1936.3	1432.7	190.6	8.4	19.2	33.6
52.5°	2600.5	2583.7	2514.1	2303.1	2038.2	1731.2	1251.7	135.5	6.0	18.0	32.4
55°	2107.7	2081.3	2029.8	1900.3	1749.2	1479.5	1011.9	75.5	6.0	18.0	31.2
57.5°	1468.7	1483.1	1501.1	1474.7	1405.1	1165.4	768.5	33.6	6.0	16.8	31.2
60°	1234.9	1222.9	1224.1	1207.3	1092.2	850.0	528.7	13.2	6.0	15.6	30.0
62.5°	737.3	745.7	761.3	764.9	651.0	474.8	277.0	6.0	6.0	14.4	28.8
65°	277.0	290.1	254.2	220.6	175.0	128.3	64.7	4.8	7.2	13.2	26.4
67.5°	8.4	9.6	12.0	10.8	10.8	9.6	7.2	4.8	7.2	12.0	25.2
70°	6.0	6.0	6.0	6.0	6.0	4.8	4.8	4.8	6.0	10.8	22.8
72.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.0	9.6	20.4
75°	3.6	4.8	3.6	3.6	3.6	3.6	3.6	3.6	6.0	8.4	16.8
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	7.2	14.4
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	4.8	6.0	12.0
82.5°	2.4	2.4	2.4	1.2	2.4	2.4	2.4	2.4	4.8	4.8	9.6
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6	4.8	6.0
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.4	3.6	3.6	3.6
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°	83.9	83.9	83.9
2.5°	79.1	79.1	79.1
5°	76.7	76.7	76.7
7.5°	74.3	74.3	74.3
10°	71.9	71.9	71.9
12.5°	69.5	69.5	70.7
15°	65.9	68.3	68.3
17.5°	63.5	65.9	67.1
20°	61.1	63.5	64.7
22.5°	57.5	61.1	63.5
25°	55.2	59.9	61.1
27.5°	52.8	58.7	61.1
30°	51.6	57.5	59.9
32.5°	49.2	56.3	58.7
35°	48.0	56.3	58.7
37.5°	48.0	55.2	58.7
40°	46.8	55.2	58.7
42.5°	46.8	55.2	58.7
45°	46.8	55.2	58.7
47.5°	45.6	55.2	59.9
50°	45.6	56.3	59.9
52.5°	45.6	56.3	59.9
55°	45.6	56.3	58.7
57.5°	44.4	55.2	58.7
60°	44.4	55.2	58.7
62.5°	42.0	54.0	57.5
65°	40.8	52.8	56.3
67.5°	38.4	51.6	54.0
70°	36.0	48.0	51.6
72.5°	32.4	45.6	49.2
75°	28.8	42.0	44.4
77.5°	25.2	37.2	39.6
80°	20.4	31.2	33.6
82.5°	15.6	24.0	25.2
85°	10.8	15.6	16.8
87.5°	4.8	7.2	8.4
90°	0.0	0.0	0.0

(END OF REPORT)