

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: P1318045

Luminaire Tested: P3SQAS13R509835DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R509835DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

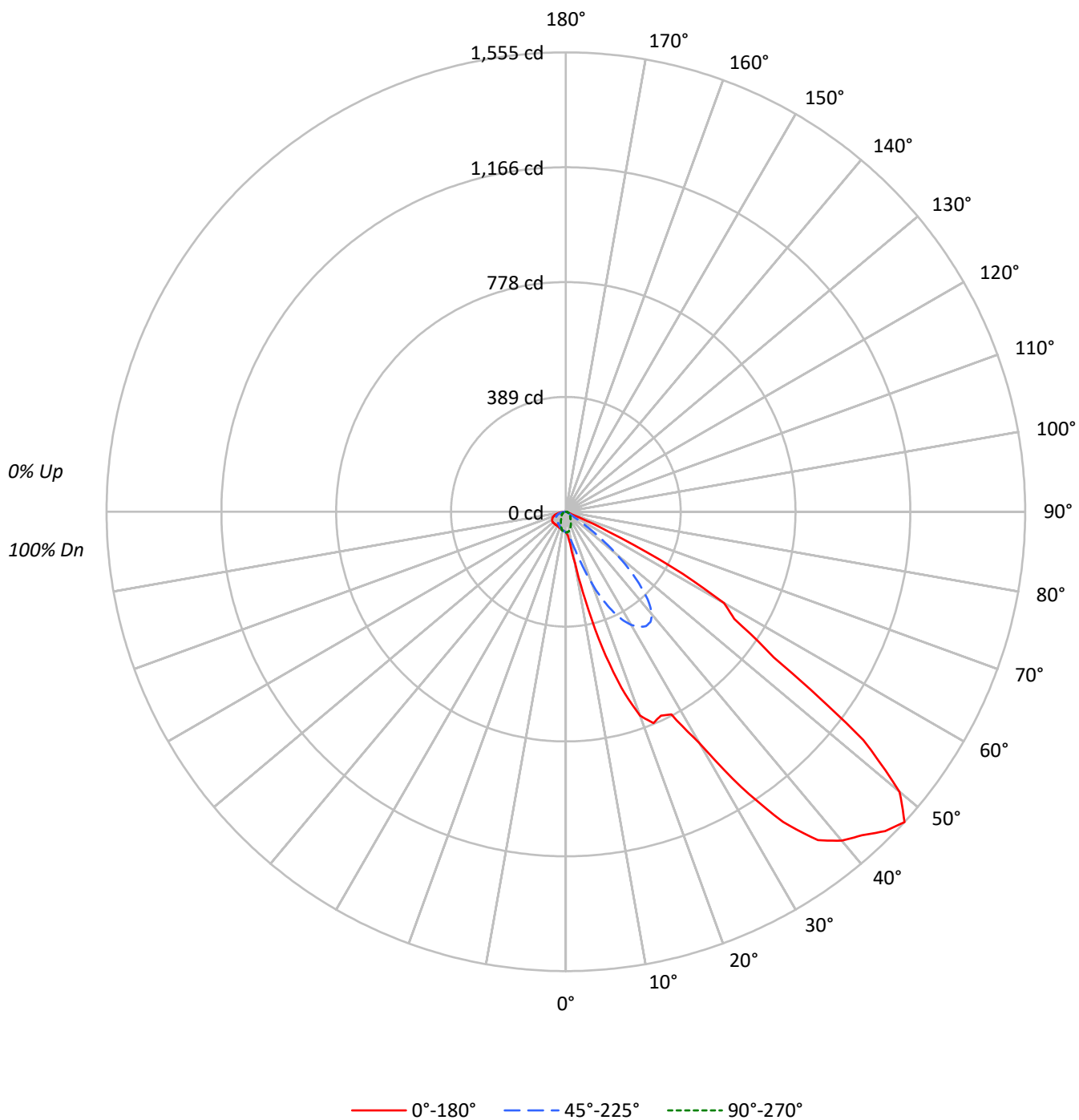
Lumens per Lamp: N/A
Luminaire Lumens: 877.0 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12004	12004	12004	12004	12004
5°	14280	13364	11911	11393	11255
10°	30726	16561	11385	11000	11122
15°	85084	27155	10270	10537	10947
20°	134524	47615	8889	10135	10685
25°	144667	69949	7620	9786	10794
30°	179556	87819	6622	9645	11156
35°	269471	99383	5740	9713	11795
40°	326799	102181	5103	10049	12433
45°	372305	87633	4993	10692	13664
50°	395171	60472	5064	11575	15218
55°	258164	24351	5014	12521	16845
60°	212902	4168	4960	13571	18531
65°	64224	2160	4646	14507	20376
70°	2669	2266	4582	14855	22106
75°	2529	2529	4525	15105	24221
80°	2281	2281	4463	14976	24795
85°	1581	2964	5928	15018	23910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 396429 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.8
10°-20°	41.5	4.7
20°-30°	106.8	12.2
30°-40°	191.7	21.9
40°-50°	256.1	29.2
50°-60°	195.1	22.2
60°-70°	59.2	6.8
70°-80°	14.1	1.6
80°-90°	5.1	0.6
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°	155.5	17.7
0°-40°	347.3	39.6
0°-60°	798.5	91.1
0°-90°	877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	83	77	69	66	65	11
15°	477	152	58	59	61	140
25°	761	368	40	52	57	363
35°	1282	473	27	46	56	787
45°	1529	360	20	44	56	1169
55°	860	81	17	42	56	855
65°	158	5	11	36	50	218
75°	4	4	7	23	36	4
85°	1	2	3	8	12	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
2.5°	74.2	74.2	74.2	74.2	74.2	74.2	73.5	73.5	73.5	72.0	70.4
5°	82.6	83.3	82.6	82.6	81.1	81.1	79.5	79.5	77.3	72.7	68.9
7.5°	108.3	107.6	106.8	103.8	101.5	96.2	93.9	90.1	83.3	72.7	67.4
10°	175.7	171.2	168.2	161.3	147.0	137.9	125.7	113.6	94.7	72.7	65.1
12.5°	305.3	304.5	295.4	272.7	252.2	224.2	194.7	165.1	116.7	71.2	62.1
15°	477.2	470.4	457.5	431.0	394.7	350.7	297.7	245.4	152.3	68.9	57.6
17.5°	624.2	615.8	606.0	579.5	537.8	482.5	418.9	346.9	200.7	65.9	53.0
20°	734.0	728.7	720.4	699.2	659.8	609.8	538.6	451.5	259.8	62.1	48.5
22.5°	774.2	773.4	774.9	767.3	747.7	708.3	640.1	549.2	318.1	57.6	43.9
25°	761.3	760.5	770.4	780.2	784.8	768.9	716.6	628.0	368.1	53.8	40.1
27.5°	773.4	771.1	766.6	768.1	781.0	790.1	765.8	688.6	411.3	48.5	36.4
30°	902.9	890.1	869.6	834.8	809.0	806.7	796.1	736.3	441.6	43.2	33.3
32.5°	1105.2	1089.3	1052.2	987.8	926.4	879.5	846.1	776.4	462.8	37.9	29.5
35°	1281.7	1270.3	1227.1	1163.5	1075.6	987.8	927.2	835.5	472.7	33.3	27.3
37.5°	1401.4	1396.8	1354.4	1286.2	1196.8	1093.1	1012.8	896.1	470.4	28.0	25.0
40°	1453.6	1440.0	1404.4	1346.8	1256.7	1163.5	1078.7	934.8	454.5	22.7	22.7
42.5°	1484.7	1469.5	1430.9	1376.4	1287.7	1188.5	1086.3	918.1	416.6	18.2	22.0
45°	1528.6	1512.7	1462.0	1403.6	1314.3	1199.1	1056.7	859.0	359.8	13.6	20.5
47.5°	1555.1	1544.5	1506.7	1448.3	1340.0	1184.0	988.5	803.7	296.9	10.6	19.7
50°	1474.9	1464.2	1436.2	1396.1	1323.4	1133.2	928.7	714.3	225.7	8.3	18.9
52.5°	1269.6	1278.7	1284.0	1295.3	1242.3	1019.6	839.3	643.1	152.3	6.8	17.4
55°	859.8	873.4	888.5	934.0	996.1	907.5	745.4	556.0	81.1	6.8	16.7
57.5°	675.7	671.1	666.6	663.6	712.0	748.4	655.2	444.7	34.8	6.8	15.1
60°	618.1	604.5	595.4	597.7	621.9	607.5	518.9	290.1	12.1	6.8	14.4
62.5°	405.3	415.9	436.3	471.2	454.5	390.1	301.5	115.1	6.1	6.8	12.9
65°	157.6	152.3	157.6	167.4	144.7	107.6	67.4	20.5	5.3	6.1	11.4
67.5°	21.2	18.9	14.4	9.1	8.3	7.6	6.1	5.3	5.3	6.1	10.6
70°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.5	4.5	5.3	9.1
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.3	7.6
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4.5	6.8
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.8	5.3
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	4.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	3.0	3.8
85°	0.8	1.5	0.8	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3	2.3
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):

	112.5°	135°	157.5°	180°
0°	69.7	69.7	69.7	69.7
2.5°	68.9	67.4	67.4	67.4
5°	67.4	65.9	65.9	65.1
7.5°	65.1	64.4	64.4	64.4
10°	63.6	62.9	63.6	63.6
12.5°	60.6	61.4	62.1	62.1
15°	57.6	59.1	60.6	61.4
17.5°	54.5	57.6	59.1	59.8
20°	51.5	55.3	57.6	58.3
22.5°	49.2	53.0	56.1	57.6
25°	46.2	51.5	55.3	56.8
27.5°	43.2	49.2	53.8	56.1
30°	40.9	48.5	53.8	56.1
32.5°	38.6	47.0	53.0	55.3
35°	37.1	46.2	53.0	56.1
37.5°	35.6	45.4	53.0	55.3
40°	34.8	44.7	53.0	55.3
42.5°	34.1	44.7	53.0	56.1
45°	32.6	43.9	53.0	56.1
47.5°	31.8	43.9	53.0	56.1
50°	31.1	43.2	53.0	56.8
52.5°	30.3	42.4	53.0	56.8
55°	28.8	41.7	52.3	56.1
57.5°	28.0	40.9	51.5	54.5
60°	26.5	39.4	50.0	53.8
62.5°	25.0	37.9	48.5	51.5
65°	22.7	35.6	46.2	50.0
67.5°	20.5	32.6	43.9	47.7
70°	18.2	29.5	40.9	43.9
72.5°	15.9	26.5	37.9	40.1
75°	13.6	22.7	33.3	36.4
77.5°	11.4	19.7	28.0	30.3
80°	8.3	15.1	22.7	25.0
82.5°	6.8	11.4	16.7	18.2
85°	4.5	7.6	10.6	12.1
87.5°	2.3	3.8	5.3	6.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)