

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: P1318036

Luminaire Tested: P3SQAS13R459835DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318036
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: P3SQAS13R459835DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

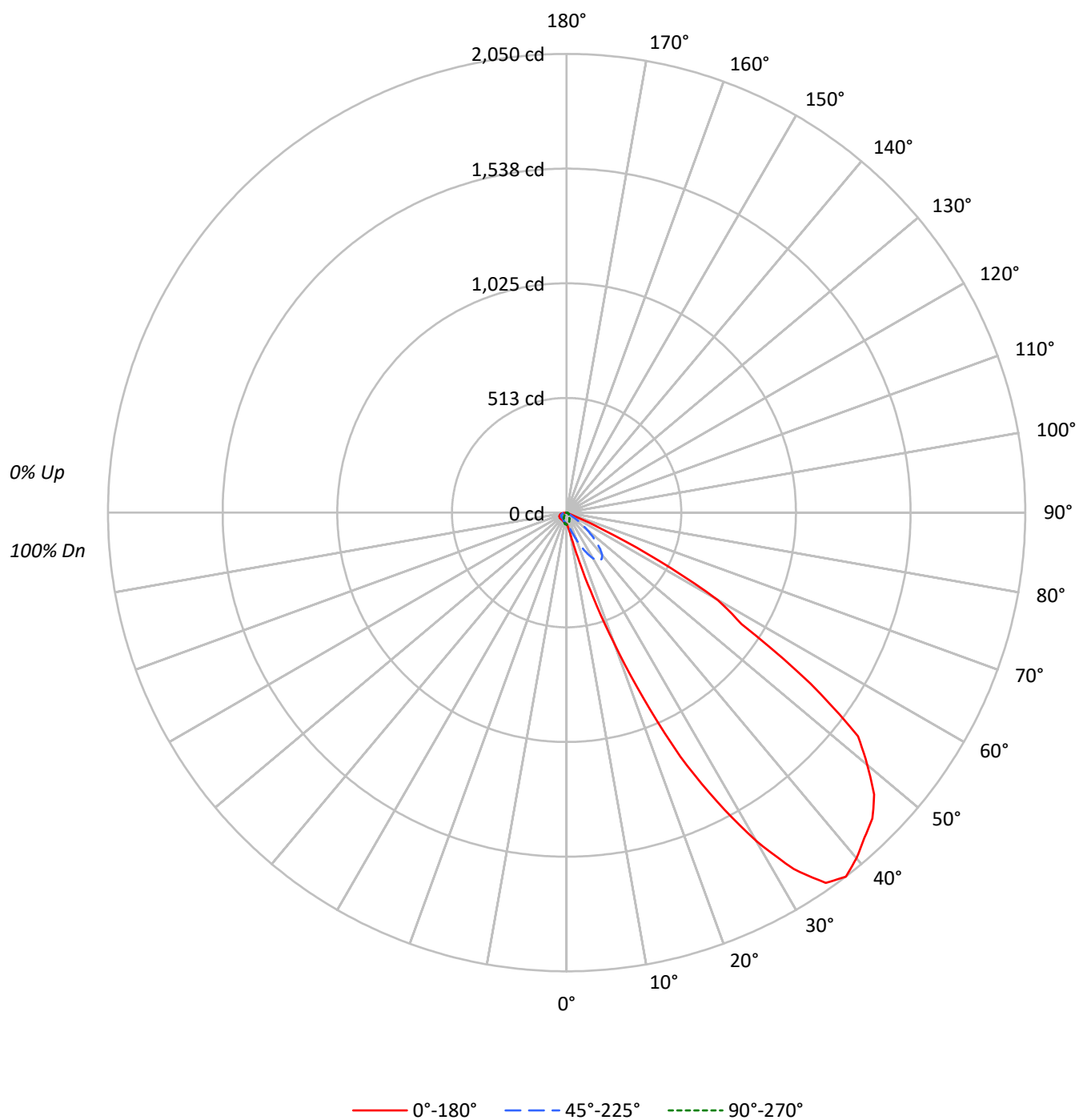
Lumens per Lamp: N/A
Luminaire Lumens: 916.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9128	9128	9128	9128	9128
5°	10857	10079	9024	8367	8367
10°	17331	11787	8464	7940	7940
15°	43184	15797	7685	7417	7685
20°	113741	23588	6653	7074	7496
25°	228393	34946	5758	6613	7335
30°	336699	46813	4673	6463	7517
35°	424716	54895	3974	6370	7800
40°	453126	55463	3575	6632	8341
45°	470801	46276	3312	7185	9036
50°	470058	32232	3242	7716	10128
55°	399527	14322	3423	8648	11140
60°	268530	2859	3376	9644	12779
65°	71233	1223	3382	10473	14507
70°	1913	1511	3424	11430	16365
75°	1530	1530	3527	12111	18632
80°	1488	2281	3769	12794	21026
85°	1581	2964	5928	13437	20946

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 482924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.6
10°-20°	25.8	2.8
20°-30°	106.6	11.6
30°-40°	224.6	24.5
40°-50°	277.1	30.2
50°-60°	207.7	22.7
60°-70°	53.4	5.8
70°-80°	11.1	1.2
80°-90°	4.5	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°	137.7	15.0
0°-40°	362.2	39.5
0°-60°	847.0	92.5
0°-90°	916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	916.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	63	58	52	48	48	7
15°	242	89	43	42	43	89
25°	1202	184	30	35	39	560
35°	2020	261	19	30	37	1231
45°	1933	190	14	30	37	1479
55°	1331	48	11	29	37	1149
65°	175	3	8	26	36	252
75°	2	2	5	18	28	3
85°	1	2	3	7	11	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°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
2.5°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	55.3	54.5	53.0	51.5
5°	62.8	62.1	62.1	62.1	61.3	60.5	60.5	58.3	55.3	52.2	50.0
7.5°	74.2	74.2	73.4	71.9	71.1	69.6	68.1	62.1	55.3	50.7	47.7
10°	99.1	97.6	95.4	93.9	90.1	84.8	81.0	67.4	54.5	48.4	46.2
12.5°	148.3	151.4	143.8	136.2	125.6	115.8	103.7	76.4	54.5	46.2	43.9
15°	242.2	247.5	233.1	218.0	192.2	168.0	145.3	88.6	53.0	43.1	40.9
17.5°	395.8	402.7	378.4	342.9	302.7	254.3	212.7	105.2	51.5	40.1	38.6
20°	620.6	619.9	572.9	528.3	451.1	379.9	302.0	128.7	49.2	36.3	36.3
22.5°	896.9	899.9	842.4	762.2	652.4	538.1	414.0	155.9	46.2	33.3	34.1
25°	1201.9	1176.2	1108.1	1010.4	870.4	712.2	548.7	183.9	43.1	30.3	31.8
27.5°	1456.2	1431.2	1353.3	1237.5	1086.9	899.2	685.7	211.9	39.4	27.2	29.5
30°	1693.1	1661.3	1567.5	1436.5	1257.2	1054.3	814.4	235.4	34.8	23.5	27.2
32.5°	1888.4	1859.6	1752.9	1600.8	1405.5	1187.5	923.4	253.6	30.3	21.2	25.7
35°	2020.1	1990.6	1892.2	1724.9	1512.2	1284.4	1011.9	261.1	26.5	18.9	25.0
37.5°	2050.4	2034.5	1964.1	1807.4	1585.6	1346.5	1068.7	258.8	21.9	17.4	23.5
40°	2015.5	2019.3	1986.0	1855.8	1625.0	1373.0	1092.2	246.7	18.2	15.9	22.7
42.5°	1970.9	1980.7	1978.5	1875.5	1641.6	1374.5	1082.3	222.5	14.4	14.4	21.9
45°	1933.0	1942.9	1956.5	1867.2	1630.3	1354.8	1051.3	190.0	10.6	13.6	21.9
47.5°	1864.2	1874.8	1894.4	1800.6	1572.8	1304.1	995.3	154.4	7.6	12.9	21.2
50°	1754.4	1759.7	1754.4	1649.2	1462.3	1222.3	904.5	120.3	5.3	12.1	21.2
52.5°	1641.6	1631.1	1587.2	1453.9	1286.7	1092.9	790.2	85.5	3.8	11.4	20.4
55°	1330.6	1313.9	1281.4	1199.6	1104.3	934.0	638.8	47.7	3.8	11.4	19.7
57.5°	927.2	936.2	947.6	930.9	887.1	735.7	485.2	21.2	3.8	10.6	19.7
60°	779.6	772.0	772.8	762.2	689.5	536.6	333.8	8.3	3.8	9.8	18.9
62.5°	465.5	470.8	480.6	482.9	411.0	299.7	174.8	3.8	3.8	9.1	18.2
65°	174.8	183.2	160.5	139.3	110.5	81.0	40.9	3.0	4.5	8.3	16.7
67.5°	5.3	6.1	7.6	6.8	6.8	6.1	4.5	3.0	4.5	7.6	15.9
70°	3.8	3.8	3.8	3.8	3.8	3.0	3.0	3.0	3.8	6.8	14.4
72.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.8	6.1	12.9
75°	2.3	3.0	2.3	2.3	2.3	2.3	2.3	2.3	3.8	5.3	10.6
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	4.5	9.1
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.0	3.8	7.6
82.5°	1.5	1.5	1.5	0.8	1.5	1.5	1.5	1.5	3.0	3.0	6.1
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3	3.0	3.8
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5	2.3	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):

	135°	157.5°	180°
0°	53.0	53.0	53.0
2.5°	50.0	50.0	50.0
5°	48.4	48.4	48.4
7.5°	46.9	46.9	46.9
10°	45.4	45.4	45.4
12.5°	43.9	43.9	44.7
15°	41.6	43.1	43.1
17.5°	40.1	41.6	42.4
20°	38.6	40.1	40.9
22.5°	36.3	38.6	40.1
25°	34.8	37.8	38.6
27.5°	33.3	37.1	38.6
30°	32.5	36.3	37.8
32.5°	31.0	35.6	37.1
35°	30.3	35.6	37.1
37.5°	30.3	34.8	37.1
40°	29.5	34.8	37.1
42.5°	29.5	34.8	37.1
45°	29.5	34.8	37.1
47.5°	28.8	34.8	37.8
50°	28.8	35.6	37.8
52.5°	28.8	35.6	37.8
55°	28.8	35.6	37.1
57.5°	28.0	34.8	37.1
60°	28.0	34.8	37.1
62.5°	26.5	34.1	36.3
65°	25.7	33.3	35.6
67.5°	24.2	32.5	34.1
70°	22.7	30.3	32.5
72.5°	20.4	28.8	31.0
75°	18.2	26.5	28.0
77.5°	15.9	23.5	25.0
80°	12.9	19.7	21.2
82.5°	9.8	15.1	15.9
85°	6.8	9.8	10.6
87.5°	3.0	4.5	5.3
90°	0.0	0.0	0.0

(END OF REPORT)