

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: P1306579

Luminaire Tested: P3SQAS05R359027DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R359027DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

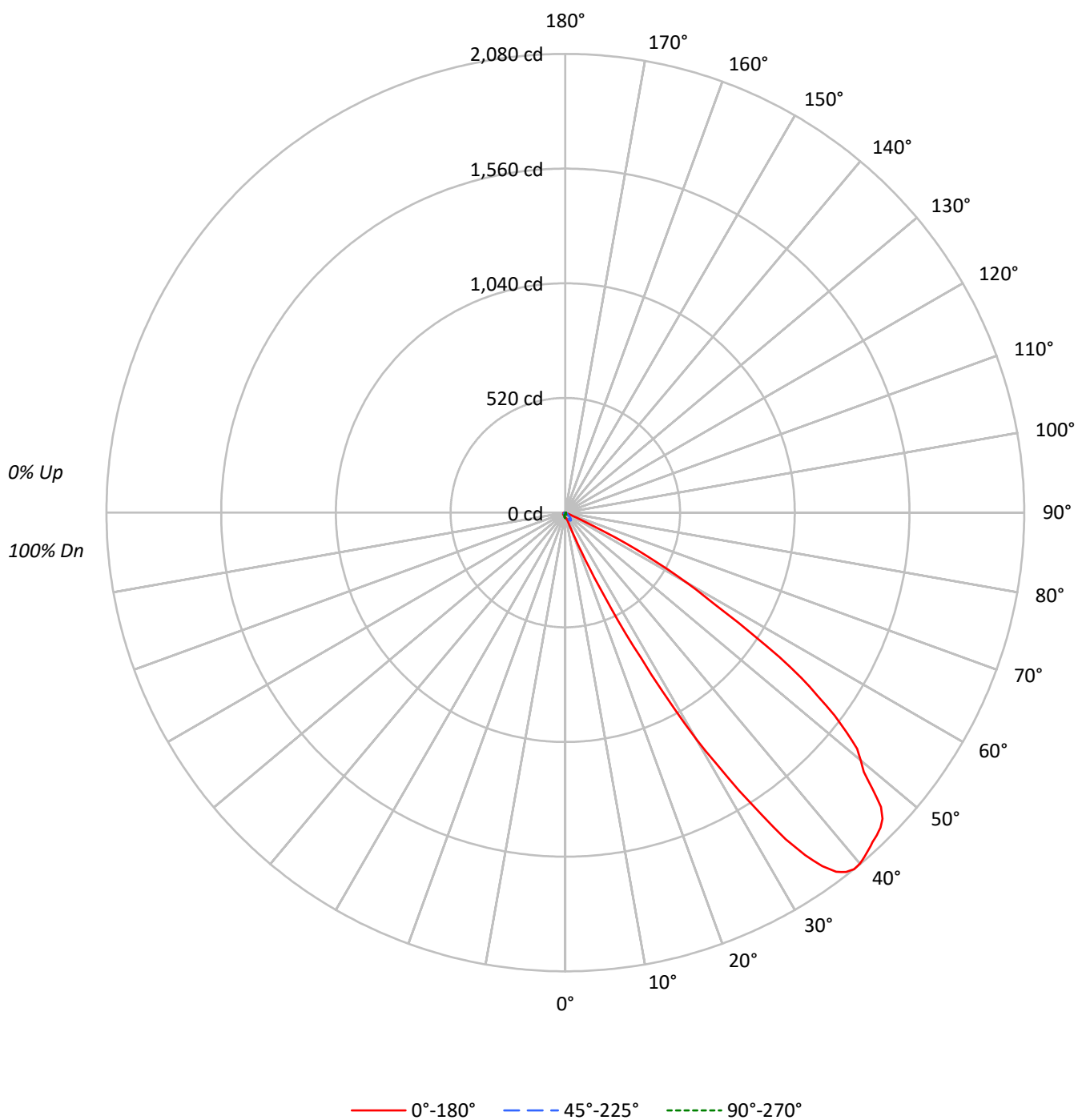
Lumens per Lamp: N/A
Luminaire Lumens: 518.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	107	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	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4099	4099	4099	4099	4099
5°	4443	4374	4045	3630	3561
10°	4669	4250	3603	3113	3113
15°	6668	4172	2924	2674	2746
20°	16715	4454	2309	2309	2566
25°	77569	5682	1786	2128	2394
30°	235815	7716	1392	1949	2426
35°	398561	8956	1177	1871	2355
40°	467177	8835	944	1888	2518
45°	492015	6259	804	2046	2728
50°	468316	3751	750	2117	3001
55°	392441	1531	841	2372	3513
60°	219687	310	964	2721	3858
65°	37940	204	937	3056	4401
70°	705	252	1158	3273	4935
75°	599	333	1530	3726	5590
80°	496	496	1884	4166	6447
85°	0	988	3754	4545	7311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 495477 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.4
10°-20°	6.1	1.2
20°-30°	31.8	6.1
30°-40°	137.3	26.5
40°-50°	195.8	37.8
50°-60°	121.3	23.4
60°-70°	18.4	3.6
70°-80°	3.4	0.7
80°-90°	1.7	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°	40.0	7.7
0°-40°	177.3	34.2
0°-60°	494.4	95.4
0°-90°	518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	518.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	26	25	23	21	21	2
15°	37	23	16	15	15	13
25°	408	30	9	11	13	244
35°	1896	43	6	9	11	1138
45°	2020	26	3	8	11	1526
55°	1307	5	3	8	12	1113
65°	93	0	2	8	11	190
75°	1	0	2	6	8	1
85°	0	0	2	2	4	0
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°	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8
2.5°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	23.8	23.4
5°	25.7	25.7	25.3	25.3	25.3	25.3	25.3	25.3	24.3	23.4	22.0
7.5°	26.2	26.2	25.7	25.7	25.7	25.7	25.3	24.8	23.8	22.0	20.6
10°	26.7	26.7	26.7	26.7	26.2	25.7	25.3	24.3	22.9	20.6	19.2
12.5°	29.9	29.9	29.5	28.5	27.6	26.7	25.7	23.8	21.0	18.7	17.3
15°	37.4	36.9	36.0	34.6	32.7	30.4	28.5	23.4	19.2	16.4	15.4
17.5°	52.4	51.4	50.0	45.4	41.1	36.9	33.2	23.4	17.3	14.5	13.6
20°	91.2	91.7	81.8	70.6	61.3	51.0	41.6	24.3	15.4	12.6	12.2
22.5°	190.3	182.8	159.5	132.3	101.0	78.1	58.9	26.7	13.6	10.8	10.8
25°	408.2	379.7	323.1	244.1	172.1	122.0	85.6	29.9	12.2	9.4	9.8
27.5°	745.4	719.6	606.0	456.4	303.0	184.2	116.0	34.1	10.8	7.9	8.9
30°	1185.8	1114.8	966.5	748.2	506.4	282.0	155.7	38.8	8.9	7.0	8.4
31°	1323.3	1290.6	1110.1	865.5	593.4	334.8	172.5	40.2	8.4	7.0	7.9
32°	1486.5	1428.5	1266.7	994.1	681.8	382.0	192.7	41.6	7.9	6.1	7.9
33°	1632.4	1576.3	1379.4	1107.3	771.1	435.8	214.2	42.1	7.0	6.1	7.5
34°	1785.8	1709.1	1514.1	1225.6	862.7	493.8	233.8	42.6	6.5	5.6	7.5
35°	1895.7	1819.0	1630.1	1319.1	941.8	545.2	256.2	42.6	6.1	5.6	7.0
36°	1980.8	1913.4	1730.1	1415.4	1020.3	591.5	274.0	42.6	5.1	5.1	7.0
37°	2039.2	1975.2	1797.5	1498.2	1080.2	632.7	289.9	42.6	4.7	5.1	7.0
38°	2067.8	2014.4	1862.5	1558.5	1138.2	664.9	302.5	41.6	4.2	4.7	6.5
39°	2079.9	2036.4	1902.2	1609.5	1181.6	693.0	311.9	40.7	3.7	4.7	6.5
40°	2078.0	2040.2	1924.7	1644.6	1216.7	712.2	317.0	39.3	3.3	4.2	6.5
41°	2067.3	2034.6	1936.4	1674.5	1237.8	725.3	318.4	37.9	2.8	4.2	6.1
42°	2055.1	2025.2	1940.1	1690.4	1251.3	729.5	314.7	36.0	2.8	3.7	6.1
43°	2042.5	2014.9	1940.1	1695.5	1254.6	726.7	308.6	32.7	2.3	3.7	6.1
44°	2032.2	2006.0	1934.0	1694.1	1247.6	715.9	297.4	29.0	1.9	3.7	6.1
45°	2020.1	1994.3	1926.1	1685.3	1234.0	697.7	283.4	25.7	1.4	3.3	6.1
46°	1998.5	1978.4	1912.0	1667.0	1212.5	672.4	265.6	23.4	0.9	3.3	5.6
47°	1956.9	1939.6	1884.9	1639.9	1184.0	642.5	247.4	21.0	0.9	3.3	5.6
48°	1873.2	1872.8	1830.7	1589.4	1138.6	605.1	228.2	18.7	0.9	3.3	5.6
49°	1792.3	1783.9	1731.5	1500.5	1073.6	560.2	208.1	16.8	0.5	3.3	5.6
50°	1747.9	1729.7	1643.6	1395.8	990.4	498.0	186.6	14.0	0.5	2.8	5.6
51°	1701.6	1675.4	1574.0	1301.3	891.3	438.1	163.2	11.2	0.5	2.8	5.1
52°	1617.9	1593.1	1479.5	1211.1	794.9	376.9	140.7	9.4	0.5	2.8	5.6
53°	1527.7	1492.1	1368.7	1112.0	710.3	322.6	117.8	7.9	0.5	2.8	5.1
54°	1414.0	1398.1	1256.5	990.4	611.2	270.3	96.8	6.5	0.5	2.8	5.1
55°	1307.0	1283.6	1136.3	866.0	521.4	221.6	80.9	5.1	0.5	2.8	5.1
56°	1170.4	1135.3	997.4	751.9	430.2	178.6	68.3	4.2	0.5	2.8	5.1
57°	1007.7	970.3	861.3	625.2	337.6	136.1	57.0	3.3	0.5	2.8	5.1
58°	852.4	820.2	703.3	482.6	254.4	94.5	47.2	2.3	0.5	2.3	5.1
59°	736.5	700.9	585.0	371.3	176.8	69.7	35.5	1.9	0.5	2.8	5.1
60°	637.8	592.0	470.9	287.6	126.3	50.0	26.2	0.9	0.9	2.8	5.1
62.5°	367.5	324.5	224.9	116.9	51.9	25.7	12.6	0.5	0.9	2.8	5.1
65°	93.1	82.8	53.8	25.3	14.5	8.9	4.7	0.5	0.9	2.3	4.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	3.3	3.3	3.3	2.8	2.3	1.9	0.9	0.5	0.9	2.3	4.7
70°	1.4	1.4	1.4	0.9	0.9	0.5	0.5	0.5	0.9	2.3	4.2
72.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	1.4	2.3	3.7
75°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	1.4	2.3	3.7
77.5°	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9	3.3
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9	2.8
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4	1.9	2.3
85°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.4	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	1.9	1.4
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°	23.8	23.8	23.8
2.5°	22.4	22.4	22.4
5°	21.0	21.0	20.6
7.5°	19.6	19.2	19.2
10°	17.8	17.8	17.8
12.5°	16.4	16.4	16.4
15°	15.0	15.4	15.4
17.5°	13.6	14.5	14.5
20°	12.6	13.6	14.0
22.5°	11.7	12.6	13.1
25°	11.2	12.2	12.6
27.5°	10.3	11.7	12.6
30°	9.8	11.2	12.2
31°	9.8	11.2	11.7
32°	9.4	11.2	11.7
33°	9.4	11.2	11.7
34°	9.4	10.8	11.7
35°	8.9	10.8	11.2
36°	8.9	10.8	11.2
37°	8.9	10.8	11.7
38°	8.9	10.8	11.2
39°	8.4	10.8	11.2
40°	8.4	10.8	11.2
41°	8.4	10.8	11.2
42°	8.4	10.8	11.2
43°	8.4	10.8	11.2
44°	8.4	10.3	11.2
45°	8.4	10.3	11.2
46°	8.4	10.8	11.2
47°	8.4	10.8	11.7
48°	8.4	10.3	11.2
49°	7.9	10.3	11.2
50°	7.9	10.3	11.2
51°	7.9	10.8	11.7
52°	7.9	10.8	11.7
53°	7.9	10.8	11.7
54°	7.9	10.8	11.2
55°	7.9	10.8	11.7
56°	7.9	10.8	11.2
57°	7.9	10.8	11.2
58°	7.9	10.3	11.2
59°	7.9	10.3	11.2
60°	7.9	10.3	11.2
62.5°	7.5	10.3	11.2
65°	7.5	9.8	10.8



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	7.0	9.8	10.3
70°	6.5	9.4	9.8
72.5°	6.1	8.9	9.4
75°	5.6	7.9	8.4
77.5°	4.7	7.0	7.9
80°	4.2	6.1	6.5
82.5°	3.3	5.1	5.6
85°	2.3	3.7	3.7
87.5°	0.9	1.9	1.9
90°	0.0	0.0	0.0

(END OF REPORT)