

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: P1338450

Luminaire Tested: P3A05R359735DE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R359735DE010 E3CA451MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 97CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

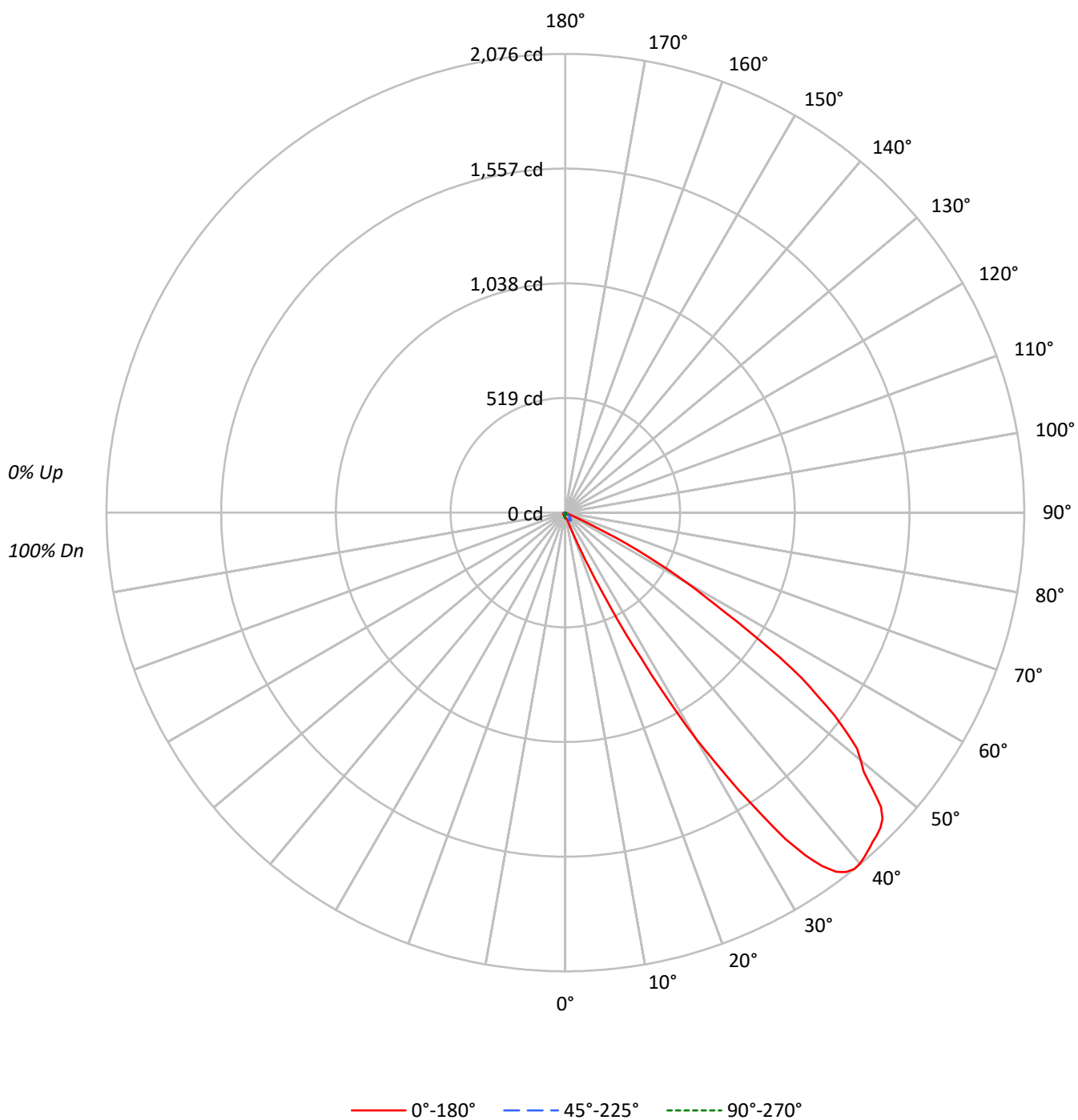
Lumens per Lamp: N/A
Luminaire Lumens: 517.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	5219	5219	5219	5219	5219
5°	5657	5547	5129	4622	4512
10°	5923	5411	4565	3941	3941
15°	8468	5289	3700	3383	3496
20°	21235	5670	2940	2940	3267
25°	98570	7234	2250	2710	3049
30°	299692	9799	1772	2481	3064
35°	506474	11377	1499	2382	2998
40°	593684	11221	1202	2405	3206
45°	625243	7970	1023	2605	3473
50°	595119	4776	955	2695	3821
55°	498678	1950	1070	3020	4473
60°	279188	395	1228	3465	4912
65°	48202	259	1193	3891	5552
70°	898	321	1475	4167	6283
75°	763	424	1949	4745	7117
80°	631	631	2399	5304	8208
85°	0	1258	4780	5787	9309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 629661 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.4
10°-20°	6.1	1.2
20°-30°	31.7	6.1
30°-40°	137.0	26.5
40°-50°	195.4	37.8
50°-60°	121.0	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°	177.0	34.2
0°-60°	493.4	95.4
0°-90°	517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	26	25	23	21	20	2
15°	37	23	16	15	15	13
25°	407	30	9	11	13	244
35°	1892	42	6	9	11	1136
45°	2016	26	3	8	11	1523
55°	1304	5	3	8	12	1111
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°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	23.8	23.3
5°	25.7	25.7	25.2	25.2	25.2	25.2	25.2	25.2	24.3	23.3	21.9
7.5°	26.1	26.1	25.7	25.7	25.7	25.7	25.2	24.7	23.8	21.9	20.5
10°	26.6	26.6	26.6	26.6	26.1	25.7	25.2	24.3	22.9	20.5	19.1
12.5°	29.9	29.9	29.4	28.5	27.5	26.6	25.7	23.8	21.0	18.7	17.3
15°	37.3	36.9	35.9	34.5	32.7	30.3	28.5	23.3	19.1	16.3	15.4
17.5°	52.3	51.3	49.9	45.3	41.1	36.9	33.1	23.3	17.3	14.5	13.5
20°	91.0	91.5	81.7	70.5	61.1	50.9	41.5	24.3	15.4	12.6	12.1
22.5°	189.9	182.5	159.1	132.1	100.8	77.9	58.8	26.6	13.5	10.7	10.7
25°	407.4	379.0	322.5	243.6	171.7	121.8	85.4	29.9	12.1	9.3	9.8
27.5°	743.9	718.3	604.8	455.5	302.4	183.9	115.7	34.1	10.7	7.9	8.9
30°	1183.6	1112.6	964.7	746.7	505.4	281.4	155.4	38.7	8.9	7.0	8.4
31°	1320.8	1288.1	1108.0	863.9	592.2	334.2	172.2	40.1	8.4	7.0	7.9
32°	1483.6	1425.8	1264.3	992.2	680.5	381.3	192.3	41.5	7.9	6.1	7.9
33°	1629.3	1573.3	1376.8	1105.2	769.6	435.0	213.8	42.0	7.0	6.1	7.5
34°	1782.3	1705.8	1511.2	1223.2	861.1	492.8	233.4	42.5	6.5	5.6	7.5
35°	1892.0	1815.5	1626.9	1316.6	939.9	544.2	255.8	42.5	6.1	5.6	7.0
36°	1977.0	1909.7	1726.8	1412.7	1018.3	590.4	273.5	42.5	5.1	5.1	7.0
37°	2035.3	1971.4	1794.0	1495.3	1078.1	631.4	289.4	42.5	4.7	5.1	7.0
38°	2063.8	2010.6	1858.9	1555.5	1136.0	663.7	302.0	41.5	4.2	4.7	6.5
39°	2075.9	2032.5	1898.5	1606.4	1179.4	691.7	311.3	40.6	3.7	4.7	6.5
40°	2074.0	2036.2	1921.0	1641.4	1214.4	710.8	316.4	39.2	3.3	4.2	6.5
41°	2063.3	2030.6	1932.6	1671.3	1235.4	723.9	317.8	37.8	2.8	4.2	6.1
42°	2051.2	2021.3	1936.4	1687.1	1248.9	728.1	314.1	35.9	2.8	3.7	6.1
43°	2038.6	2011.0	1936.4	1692.3	1252.2	725.3	308.0	32.7	2.3	3.7	6.1
44°	2028.3	2002.2	1930.3	1690.9	1245.2	714.5	296.8	28.9	1.9	3.7	6.1
45°	2016.2	1990.5	1922.4	1682.0	1231.6	696.3	282.8	25.7	1.4	3.3	6.1
46°	1994.7	1974.6	1908.3	1663.8	1210.2	671.1	265.1	23.3	0.9	3.3	5.6
47°	1953.2	1935.9	1881.3	1636.7	1181.7	641.3	246.9	21.0	0.9	3.3	5.6
48°	1869.6	1869.1	1827.1	1586.3	1136.4	603.9	227.8	18.7	0.9	3.3	5.6
49°	1788.9	1780.5	1728.2	1497.7	1071.6	559.1	207.7	16.8	0.5	3.3	5.6
50°	1744.5	1726.3	1640.5	1393.1	988.5	497.0	186.2	14.0	0.5	2.8	5.6
51°	1698.3	1672.2	1570.9	1298.8	889.5	437.3	162.9	11.2	0.5	2.8	5.1
52°	1614.8	1590.1	1476.6	1208.8	793.4	376.2	140.5	9.3	0.5	2.8	5.6
53°	1524.7	1489.2	1366.0	1109.8	708.9	322.0	117.6	7.9	0.5	2.8	5.1
54°	1411.3	1395.4	1254.0	988.5	610.0	269.8	96.6	6.5	0.5	2.8	5.1
55°	1304.4	1281.1	1134.1	864.3	520.4	221.2	80.7	5.1	0.5	2.8	5.1
56°	1168.2	1133.2	995.5	750.5	429.4	178.3	68.1	4.2	0.5	2.8	5.1
57°	1005.7	968.4	859.7	624.0	337.0	135.8	56.9	3.3	0.5	2.8	5.1
58°	850.8	818.6	701.9	481.6	253.9	94.3	47.1	2.3	0.5	2.3	5.1
59°	735.1	699.6	583.8	370.6	176.4	69.5	35.5	1.9	0.5	2.8	5.1
60°	636.6	590.8	470.0	287.0	126.0	49.9	26.1	0.9	0.9	2.8	5.1
62.5°	366.8	323.9	224.5	116.7	51.8	25.7	12.6	0.5	0.9	2.8	5.1
65°	92.9	82.6	53.7	25.2	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	20.5
7.5°	19.6	19.1	19.1
10°	17.7	17.7	17.7
12.5°	16.3	16.3	16.3
15°	14.9	15.4	15.4
17.5°	13.5	14.5	14.5
20°	12.6	13.5	14.0
22.5°	11.7	12.6	13.1
25°	11.2	12.1	12.6
27.5°	10.3	11.7	12.6
30°	9.8	11.2	12.1
31°	9.8	11.2	11.7
32°	9.3	11.2	11.7
33°	9.3	11.2	11.7
34°	9.3	10.7	11.7
35°	8.9	10.7	11.2
36°	8.9	10.7	11.2
37°	8.9	10.7	11.7
38°	8.9	10.7	11.2
39°	8.4	10.7	11.2
40°	8.4	10.7	11.2
41°	8.4	10.7	11.2
42°	8.4	10.7	11.2
43°	8.4	10.7	11.2
44°	8.4	10.3	11.2
45°	8.4	10.3	11.2
46°	8.4	10.7	11.2
47°	8.4	10.7	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	10.7	11.7
52°	7.9	10.7	11.7
53°	7.9	10.7	11.7
54°	7.9	10.7	11.2
55°	7.9	10.7	11.7
56°	7.9	10.7	11.2
57°	7.9	10.7	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	10.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	7.0	9.8	10.3
70°	6.5	9.3	9.8
72.5°	6.1	8.9	9.3
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)