

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: P1338418

Luminaire Tested: P3A05R359727DE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338418
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: P3A05R359727DE010 E3CA451MW
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 97CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

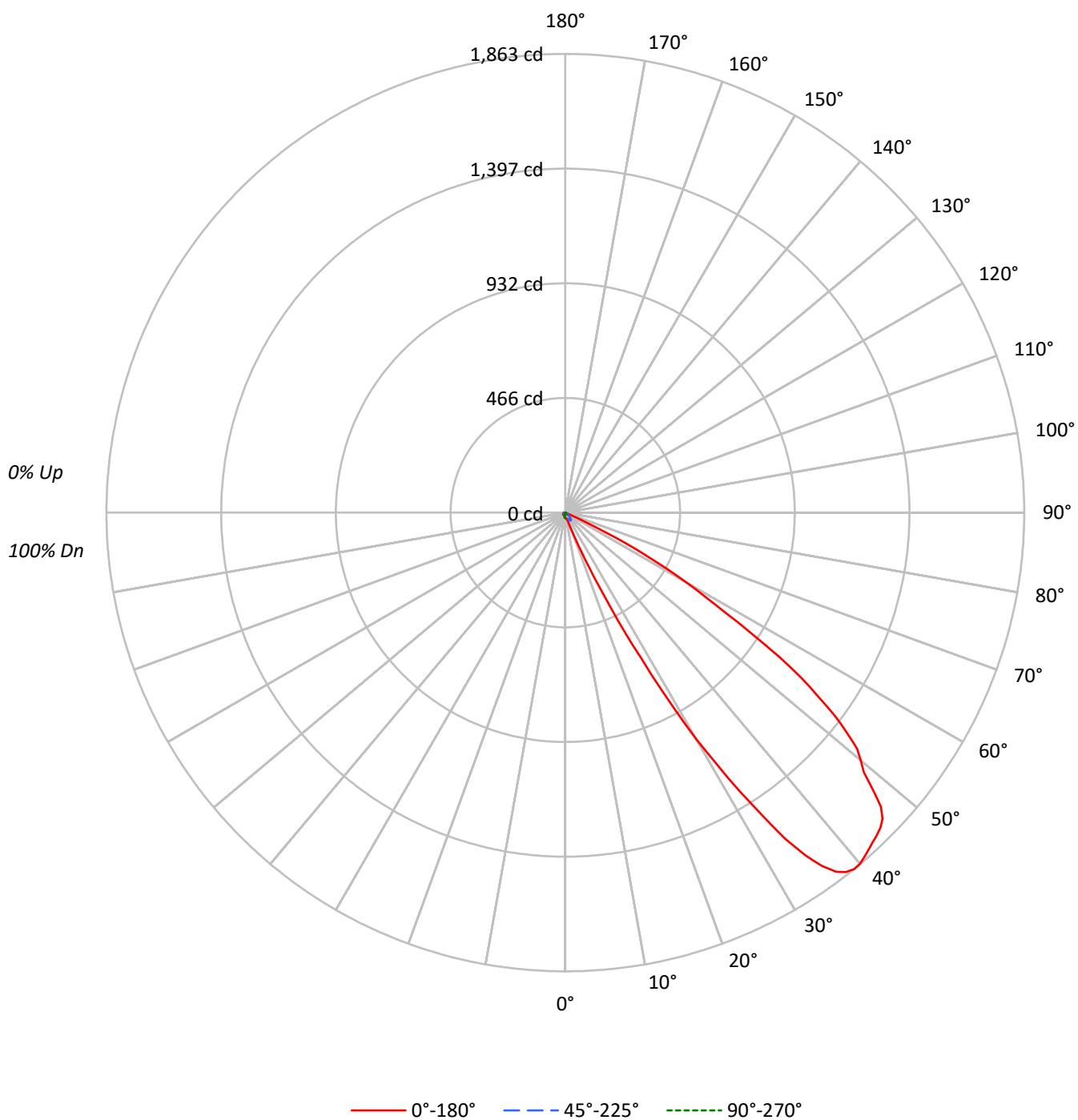
Lumens per Lamp: N/A
Luminaire Lumens: 464.0 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4693	4693	4693	4693	4693
5°	5063	4975	4600	4138	4050
10°	5322	4854	4097	3540	3540
15°	7605	4745	3337	3042	3133
20°	19065	5087	2637	2637	2940
25°	88481	6484	2032	2444	2734
30°	268953	8811	1595	2228	2760
35°	454568	10199	1338	2142	2704
40°	532827	10076	1088	2147	2891
45°	561144	7133	899	2326	3132
50°	534123	4298	853	2422	3446
55°	447564	1759	956	2714	4014
60°	250550	351	1096	3114	4429
65°	43273	208	1090	3476	4981
70°	833	256	1346	3783	5642
75°	678	339	1779	4236	6354
80°	505	505	2147	4799	7450
85°	0	1006	4277	5284	8554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 565107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.4
10°-20°	5.5	1.2
20°-30°	28.5	6.1
30°-40°	123.0	26.5
40°-50°	175.4	37.8
50°-60°	108.6	23.4
60°-70°	16.5	3.6
70°-80°	3.1	0.7
80°-90°	1.6	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°	35.9	7.7
0°-40°	158.8	34.2
0°-60°	442.8	95.4
0°-90°	464.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	464.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	21	21	21	21	21	
5°	23	23	21	19	18	2
15°	34	21	15	13	14	12
25°	366	27	8	10	11	219
35°	1698	38	5	8	10	1020
45°	1810	23	3	8	10	1367
55°	1171	5	2	7	10	997
65°	83	0	2	7	10	170
75°	1	0	2	5	8	1
85°	0	0	2	2	3	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°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
2.5°	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	21.4	20.9
5°	23.0	23.0	22.6	22.6	22.6	22.6	22.6	22.6	21.8	20.9	19.7
7.5°	23.5	23.5	23.0	23.0	23.0	23.0	22.6	22.2	21.4	19.7	18.4
10°	23.9	23.9	23.9	23.9	23.5	23.0	22.6	21.8	20.5	18.4	17.2
12.5°	26.8	26.8	26.4	25.6	24.7	23.9	23.0	21.4	18.8	16.8	15.5
15°	33.5	33.1	32.3	31.0	29.3	27.2	25.6	20.9	17.2	14.7	13.8
17.5°	46.9	46.1	44.8	40.6	36.9	33.1	29.7	20.9	15.5	13.0	12.1
20°	81.7	82.1	73.3	63.2	54.9	45.7	37.3	21.8	13.8	11.3	10.9
22.5°	170.5	163.8	142.8	118.5	90.5	69.9	52.8	23.9	12.1	9.6	9.6
25°	365.7	340.1	289.4	218.6	154.1	109.3	76.7	26.8	10.9	8.4	8.8
27.5°	667.7	644.6	542.8	408.8	271.4	165.0	103.9	30.6	9.6	7.1	8.0
30°	1062.2	998.6	865.8	670.2	453.6	252.6	139.5	34.8	8.0	6.3	7.5
31°	1185.4	1156.1	994.4	775.3	531.5	299.9	154.6	36.0	7.5	6.3	7.1
32°	1331.6	1279.6	1134.7	890.5	610.7	342.2	172.6	37.3	7.1	5.4	7.1
33°	1462.2	1412.0	1235.6	991.9	690.7	390.4	191.8	37.7	6.3	5.4	6.7
34°	1599.6	1530.9	1356.3	1097.8	772.8	442.3	209.4	38.1	5.9	5.0	6.7
35°	1698.1	1629.4	1460.1	1181.6	843.6	488.4	229.5	38.1	5.4	5.0	6.3
36°	1774.3	1714.0	1549.8	1267.9	914.0	529.9	245.5	38.1	4.6	4.6	6.3
37°	1826.6	1769.3	1610.1	1342.0	967.6	566.7	259.7	38.1	4.2	4.6	6.3
38°	1852.2	1804.4	1668.3	1396.1	1019.5	595.6	271.0	37.3	3.8	4.2	5.9
39°	1863.1	1824.1	1703.9	1441.7	1058.5	620.7	279.4	36.4	3.4	4.2	5.9
40°	1861.4	1827.5	1724.0	1473.1	1089.9	637.9	284.0	35.2	2.9	3.8	5.9
41°	1851.8	1822.5	1734.5	1499.9	1108.7	649.7	285.2	33.9	2.5	3.8	5.4
42°	1840.9	1814.1	1737.8	1514.2	1120.9	653.4	281.9	32.3	2.5	3.4	5.4
43°	1829.6	1804.9	1737.8	1518.8	1123.8	650.9	276.4	29.3	2.1	3.4	5.4
44°	1820.4	1796.9	1732.4	1517.5	1117.5	641.3	266.4	26.0	1.7	3.4	5.4
45°	1809.5	1786.4	1725.3	1509.6	1105.4	624.9	253.8	23.0	1.3	2.9	5.4
46°	1790.2	1772.2	1712.7	1493.2	1086.1	602.3	237.9	20.9	0.8	2.9	5.0
47°	1752.9	1737.4	1688.4	1468.9	1060.6	575.5	221.6	18.8	0.8	2.9	5.0
48°	1678.0	1677.5	1639.8	1423.7	1019.9	542.0	204.4	16.8	0.8	2.9	5.0
49°	1605.5	1597.9	1551.0	1344.1	961.7	501.8	186.4	15.1	0.4	2.9	5.0
50°	1565.7	1549.4	1472.3	1250.3	887.1	446.1	167.1	12.6	0.4	2.5	5.0
51°	1524.2	1500.8	1409.9	1165.7	798.3	392.5	146.2	10.1	0.4	2.5	4.6
52°	1449.3	1427.1	1325.3	1084.8	712.1	337.6	126.1	8.4	0.4	2.5	5.0
53°	1368.4	1336.6	1226.0	996.0	636.2	289.0	105.6	7.1	0.4	2.5	4.6
54°	1266.6	1252.4	1125.5	887.1	547.4	242.1	86.7	5.9	0.4	2.5	4.6
55°	1170.7	1149.8	1017.8	775.7	467.0	198.5	72.5	4.6	0.4	2.5	4.6
56°	1048.4	1017.0	893.4	673.5	385.4	160.0	61.2	3.8	0.4	2.5	4.6
57°	902.6	869.1	771.5	560.0	302.4	121.9	51.1	2.9	0.4	2.5	4.6
58°	763.6	734.7	630.0	432.3	227.9	84.6	42.3	2.1	0.4	2.1	4.6
59°	659.7	627.9	524.0	332.6	158.3	62.4	31.8	1.7	0.4	2.5	4.6
60°	571.3	530.3	421.8	257.6	113.1	44.8	23.5	0.8	0.8	2.5	4.6
62.5°	329.2	290.7	201.5	104.7	46.5	23.0	11.3	0.4	0.8	2.5	4.6
65°	83.4	74.1	48.2	22.6	13.0	8.0	4.2	0.4	0.8	2.1	4.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.9	2.9	2.9	2.5	2.1	1.7	0.8	0.4	0.8	2.1	4.2
70°	1.3	1.3	1.3	0.8	0.8	0.4	0.4	0.4	0.8	2.1	3.8
72.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.3	2.1	3.4
75°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.3	2.1	3.4
77.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.7	2.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.7	2.5
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.7	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	1.3	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.7	1.3
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°	21.4	21.4	21.4
2.5°	20.1	20.1	20.1
5°	18.8	18.8	18.4
7.5°	17.6	17.2	17.2
10°	15.9	15.9	15.9
12.5°	14.7	14.7	14.7
15°	13.4	13.8	13.8
17.5°	12.1	13.0	13.0
20°	11.3	12.1	12.6
22.5°	10.5	11.3	11.7
25°	10.1	10.9	11.3
27.5°	9.2	10.5	11.3
30°	8.8	10.1	10.9
31°	8.8	10.1	10.5
32°	8.4	10.1	10.5
33°	8.4	10.1	10.5
34°	8.4	9.6	10.5
35°	8.0	9.6	10.1
36°	8.0	9.6	10.1
37°	8.0	9.6	10.5
38°	8.0	9.6	10.1
39°	7.5	9.6	10.1
40°	7.5	9.6	10.1
41°	7.5	9.6	10.1
42°	7.5	9.6	10.1
43°	7.5	9.6	10.1
44°	7.5	9.2	10.1
45°	7.5	9.2	10.1
46°	7.5	9.6	10.1
47°	7.5	9.6	10.5
48°	7.5	9.2	10.1
49°	7.1	9.2	10.1
50°	7.1	9.2	10.1
51°	7.1	9.6	10.5
52°	7.1	9.6	10.5
53°	7.1	9.6	10.5
54°	7.1	9.6	10.1
55°	7.1	9.6	10.5
56°	7.1	9.6	10.1
57°	7.1	9.6	10.1
58°	7.1	9.2	10.1
59°	7.1	9.2	10.1
60°	7.1	9.2	10.1
62.5°	6.7	9.2	10.1
65°	6.7	8.8	9.6



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	6.3	8.8	9.2
70°	5.9	8.4	8.8
72.5°	5.4	8.0	8.4
75°	5.0	7.1	7.5
77.5°	4.2	6.3	7.1
80°	3.8	5.4	5.9
82.5°	2.9	4.6	5.0
85°	2.1	3.4	3.4
87.5°	0.8	1.7	1.7
90°	0.0	0.0	0.0

(END OF REPORT)