

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: P1337462

Luminaire Tested: P3A05R259827DE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R259827DE010 E3CA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 98CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

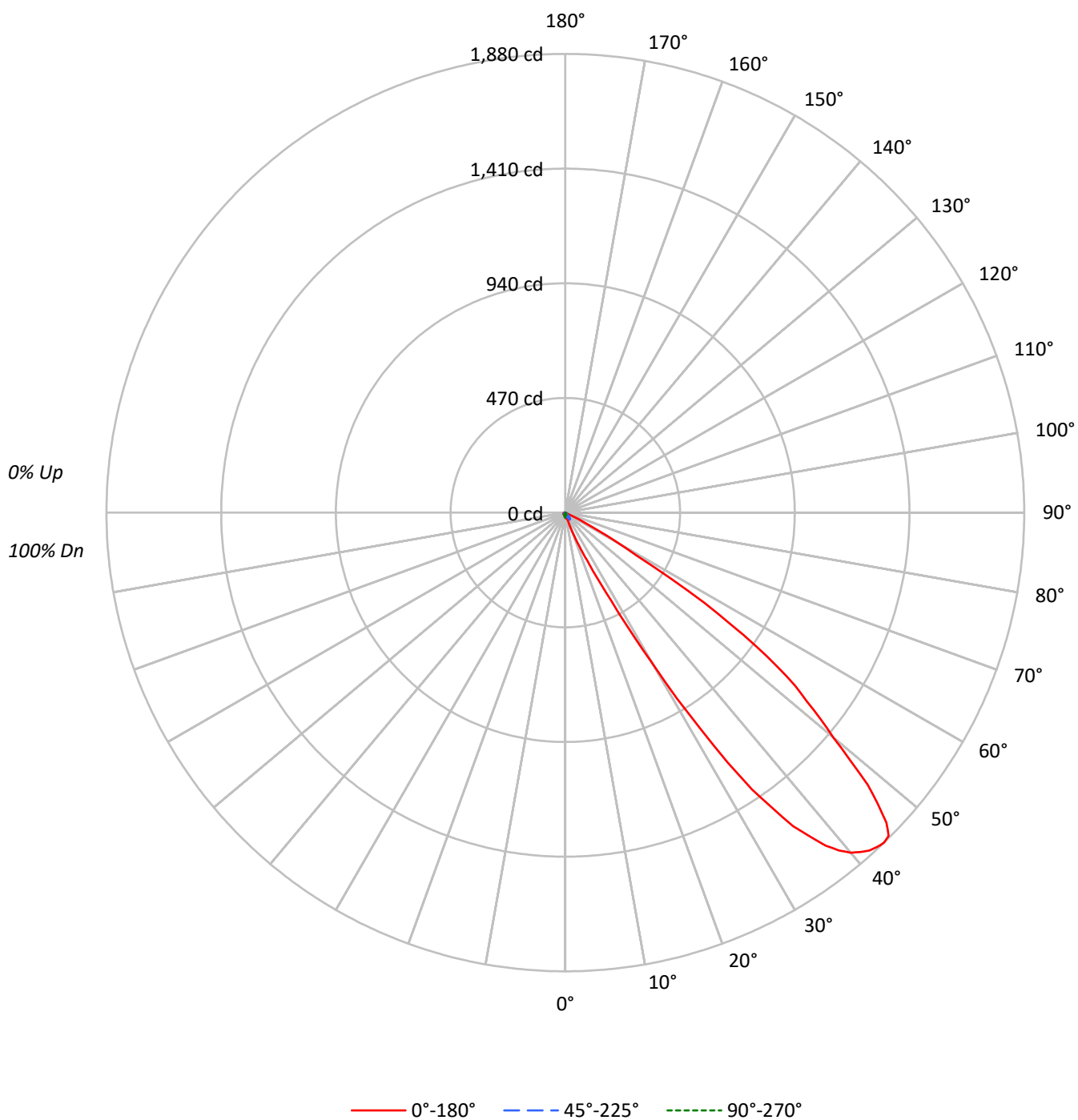
Lumens per Lamp: N/A
Luminaire Lumens: 392.0 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4386	4386	4386	4386	4386
5°	5019	4777	4248	3786	3720
10°	4988	4542	3607	3140	3140
15°	5562	3905	2815	2656	2815
20°	19648	3874	2170	2264	2497
25°	56495	4936	1742	2081	2419
30°	180281	7596	1393	2000	2456
35°	394846	8968	1205	1927	2490
40°	520862	8101	973	1975	2662
45°	580866	5675	961	2140	2884
50°	488956	2934	955	2252	3173
55°	365559	1185	918	2523	3555
60°	113149	307	921	2719	3947
65°	9651	0	1090	2854	4307
70°	641	192	1090	3334	4873
75°	593	254	1440	3474	5592
80°	379	379	2147	3915	6566
85°	755	755	3522	4277	7045

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 580866 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.5
10°-20°	4.6	1.2
20°-30°	21.7	5.5
30°-40°	104.4	26.6
40°-50°	163.7	41.8
50°-60°	83.9	21.4
60°-70°	7.9	2.0
70°-80°	2.6	0.7
80°-90°	1.3	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°	28.1	7.2
0°-40°	132.5	33.8
0°-60°	380.1	97.0
0°-90°	392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	392.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	23	22	19	17	17	2
15°	24	17	12	12	12	10
25°	234	20	7	9	10	145
35°	1475	34	4	7	9	895
45°	1873	18	3	7	9	1371
55°	956	3	2	7	9	796
65°	19	0	2	6	8	58
75°	1	0	2	4	7	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	21.7	21.7	21.7	21.7	21.7	21.7	21.4	21.4	21.7	21.4	21.4
5°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.4	22.4	22.4	21.7
7.5°	23.1	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.4	22.4	21.4
10°	22.4	22.4	22.4	22.4	22.1	22.1	22.1	21.7	21.7	21.7	20.4
12.5°	22.4	22.4	22.4	22.4	22.1	22.1	21.7	21.7	21.4	21.0	18.6
15°	24.5	24.5	24.5	24.1	23.8	23.5	23.1	22.8	22.4	21.7	17.2
17.5°	35.9	34.8	34.5	33.1	31.4	29.7	28.3	26.9	25.5	24.5	16.6
20°	84.2	83.8	82.1	78.0	73.5	68.3	63.1	57.3	49.0	43.5	16.6
22.5°	145.9	143.8	140.7	137.6	129.7	120.4	110.7	99.7	89.0	77.6	17.6
25°	233.5	238.4	228.0	219.7	205.9	189.0	170.8	155.6	136.3	118.3	20.4
27.5°	406.0	409.1	388.8	361.9	329.8	294.2	259.7	233.9	201.5	171.8	25.5
30°	712.0	715.1	680.9	623.7	557.4	499.1	420.2	350.8	287.0	237.7	30.0
31°	888.6	864.4	824.8	769.2	685.4	597.5	502.6	418.8	338.1	273.2	31.4
32°	1042.1	1040.0	993.8	909.6	825.5	716.8	599.2	489.8	390.8	309.1	32.4
33°	1223.2	1209.4	1144.2	1064.9	953.4	844.1	692.3	567.4	445.0	349.1	33.1
34°	1368.4	1331.2	1304.3	1213.5	1095.9	956.5	794.1	649.5	512.6	387.7	33.5
35°	1475.0	1467.1	1414.6	1330.1	1210.4	1068.0	903.8	734.7	569.2	432.6	33.5
36°	1587.8	1563.3	1512.3	1435.7	1319.1	1171.8	987.6	808.6	635.1	472.9	33.1
37°	1658.5	1644.0	1593.3	1514.3	1400.2	1259.4	1081.4	886.5	687.5	513.3	32.4
38°	1731.3	1702.0	1652.0	1576.4	1464.3	1332.2	1149.4	946.5	735.8	548.8	31.4
39°	1781.7	1751.3	1700.3	1625.1	1515.4	1384.3	1203.2	997.6	777.9	575.4	30.0
40°	1819.6	1790.3	1738.6	1661.3	1553.0	1425.3	1248.0	1042.8	813.0	598.5	28.3
41°	1843.1	1815.8	1764.4	1687.5	1578.8	1448.8	1277.4	1072.1	836.9	614.0	26.6
42°	1862.7	1834.8	1782.4	1703.7	1594.7	1468.8	1295.3	1090.7	853.1	621.9	25.2
43°	1873.8	1845.8	1794.8	1714.4	1604.4	1478.1	1304.9	1099.4	858.6	620.9	22.8
44°	1880.0	1851.0	1799.6	1719.2	1608.5	1480.5	1305.6	1097.6	854.8	612.6	20.7
45°	1873.1	1844.5	1794.8	1714.4	1601.3	1472.9	1298.7	1088.3	840.3	596.4	18.3
46°	1828.2	1806.2	1760.6	1686.8	1578.5	1453.6	1281.1	1070.4	817.9	576.4	15.5
47°	1749.2	1731.7	1687.5	1632.7	1534.7	1418.1	1248.7	1036.2	786.5	546.4	12.4
48°	1666.8	1640.9	1599.9	1543.7	1460.9	1354.3	1195.3	986.2	738.9	507.1	11.0
49°	1545.0	1529.9	1493.6	1430.9	1362.2	1268.4	1119.7	922.1	680.6	464.3	9.7
50°	1433.3	1422.9	1372.2	1326.0	1253.2	1165.6	1017.3	837.5	608.1	411.2	8.6
51°	1346.0	1333.6	1297.0	1239.4	1161.8	1060.0	920.3	727.8	525.0	348.1	6.9
52°	1254.9	1248.0	1215.6	1156.3	1080.0	978.6	826.2	634.7	444.3	294.2	5.5
53°	1180.4	1170.4	1130.7	1078.0	995.5	890.7	724.1	548.1	376.3	247.3	4.8
54°	1071.8	1067.6	1042.1	986.9	897.6	783.4	631.6	461.5	313.9	209.7	4.1
55°	956.2	942.4	916.5	872.7	790.6	684.0	524.7	382.6	253.9	176.6	3.1
56°	815.5	814.8	768.6	732.0	659.2	546.1	419.1	298.7	206.3	147.3	2.8
57°	680.9	659.2	614.7	578.5	500.2	414.3	311.1	223.9	161.4	119.4	2.1
58°	503.6	492.2	480.5	427.4	355.0	293.6	222.1	157.3	119.4	91.1	1.4
59°	341.8	341.5	327.7	287.3	245.6	182.8	138.7	106.9	82.1	66.9	1.0
60°	258.0	251.8	224.2	197.7	154.5	115.6	82.1	63.1	51.1	43.1	0.7
62.5°	90.4	93.8	82.4	68.3	52.1	42.8	32.8	26.6	21.7	17.6	0.0
65°	18.6	20.4	17.6	16.6	13.1	11.4	10.0	8.6	7.2	6.2	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	2.4	2.1	2.1	2.1	1.7	1.7	1.7	1.7	1.4	1.4	0.3
70°	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.3
72.5°	1.0	1.0	1.0	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
85°	0.3	0.3	0.3	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	20.0	20.0	20.0	20.0	20.0	20.0
2.5°	21.0	20.4	19.3	19.0	18.6	18.6
5°	20.7	19.3	18.3	17.2	16.9	16.9
7.5°	19.7	17.9	16.6	15.9	15.5	15.2
10°	18.6	16.2	14.8	14.1	14.1	14.1
12.5°	16.6	14.5	13.1	12.8	13.1	13.1
15°	14.8	12.4	11.7	11.7	12.1	12.4
17.5°	12.8	11.0	10.3	10.7	11.0	11.4
20°	11.4	9.3	9.3	9.7	10.7	10.7
22.5°	10.0	8.3	8.3	9.3	10.0	10.3
25°	9.0	7.2	7.6	8.6	9.7	10.0
27.5°	7.6	6.2	6.9	8.3	9.3	9.7
30°	6.6	5.5	6.6	7.9	9.0	9.7
31°	6.2	5.2	6.6	7.6	9.0	9.7
32°	5.5	5.2	6.2	7.6	9.0	9.3
33°	5.2	4.8	6.2	7.6	9.0	9.3
34°	4.8	4.5	5.9	7.6	9.0	9.3
35°	4.1	4.5	5.9	7.2	8.6	9.3
36°	3.8	4.1	5.9	7.2	8.6	9.3
37°	3.4	4.1	5.5	7.2	8.6	9.3
38°	3.1	3.8	5.5	7.2	8.6	9.3
39°	2.8	3.8	5.2	7.2	8.6	9.3
40°	2.4	3.4	5.2	6.9	8.6	9.3
41°	2.4	3.4	5.2	6.9	8.6	9.3
42°	2.1	3.4	5.2	6.9	8.6	9.3
43°	1.7	3.1	5.2	6.9	8.6	9.3
44°	1.4	3.1	4.8	6.9	8.6	9.3
45°	1.4	3.1	4.8	6.9	8.6	9.3
46°	1.0	2.8	4.8	6.9	8.6	9.3
47°	0.7	2.8	4.8	6.6	8.6	9.3
48°	0.7	2.8	4.8	6.6	8.6	9.3
49°	0.7	2.8	4.5	6.6	8.6	9.3
50°	0.7	2.8	4.5	6.6	8.6	9.3
51°	0.3	2.4	4.5	6.6	8.6	9.3
52°	0.3	2.4	4.5	6.6	8.6	9.7
53°	0.3	2.4	4.5	6.6	8.6	9.3
54°	0.3	2.4	4.1	6.6	8.6	9.3
55°	0.3	2.4	4.1	6.6	8.6	9.3
56°	0.3	2.1	4.1	6.2	8.6	9.3
57°	0.7	2.1	4.1	6.2	8.6	9.0
58°	0.7	2.1	4.1	6.2	8.3	9.0
59°	0.7	2.1	4.1	6.2	8.3	9.0
60°	0.7	2.1	3.8	6.2	8.3	9.0
62.5°	0.7	2.1	3.8	5.9	7.9	8.6
65°	0.7	2.1	3.4	5.5	7.9	8.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.7	1.7	3.4	5.2	7.6	7.9
70°	1.0	1.7	3.1	5.2	7.2	7.6
72.5°	1.0	1.7	3.1	4.5	6.6	7.2
75°	1.0	1.7	2.8	4.1	6.2	6.6
77.5°	1.0	1.7	2.4	3.8	5.5	5.9
80°	1.4	1.7	2.1	3.1	4.8	5.2
82.5°	1.4	1.7	1.7	2.4	3.8	4.1
85°	1.0	1.4	1.4	1.7	2.4	2.8
87.5°	1.0	1.4	1.0	0.7	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)