

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: P1344381

Luminaire Tested: P3A13R259024DE010 E3A451LI

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344381
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: P3A13R259024DE010 E3A451LI
Description: 3in Adjustable LED luminaire with, R25 optic, 2400K CCT AND, 90CRI , E3A451LI TRIM
Light Source: -
Ballast/Driver: -

Summary

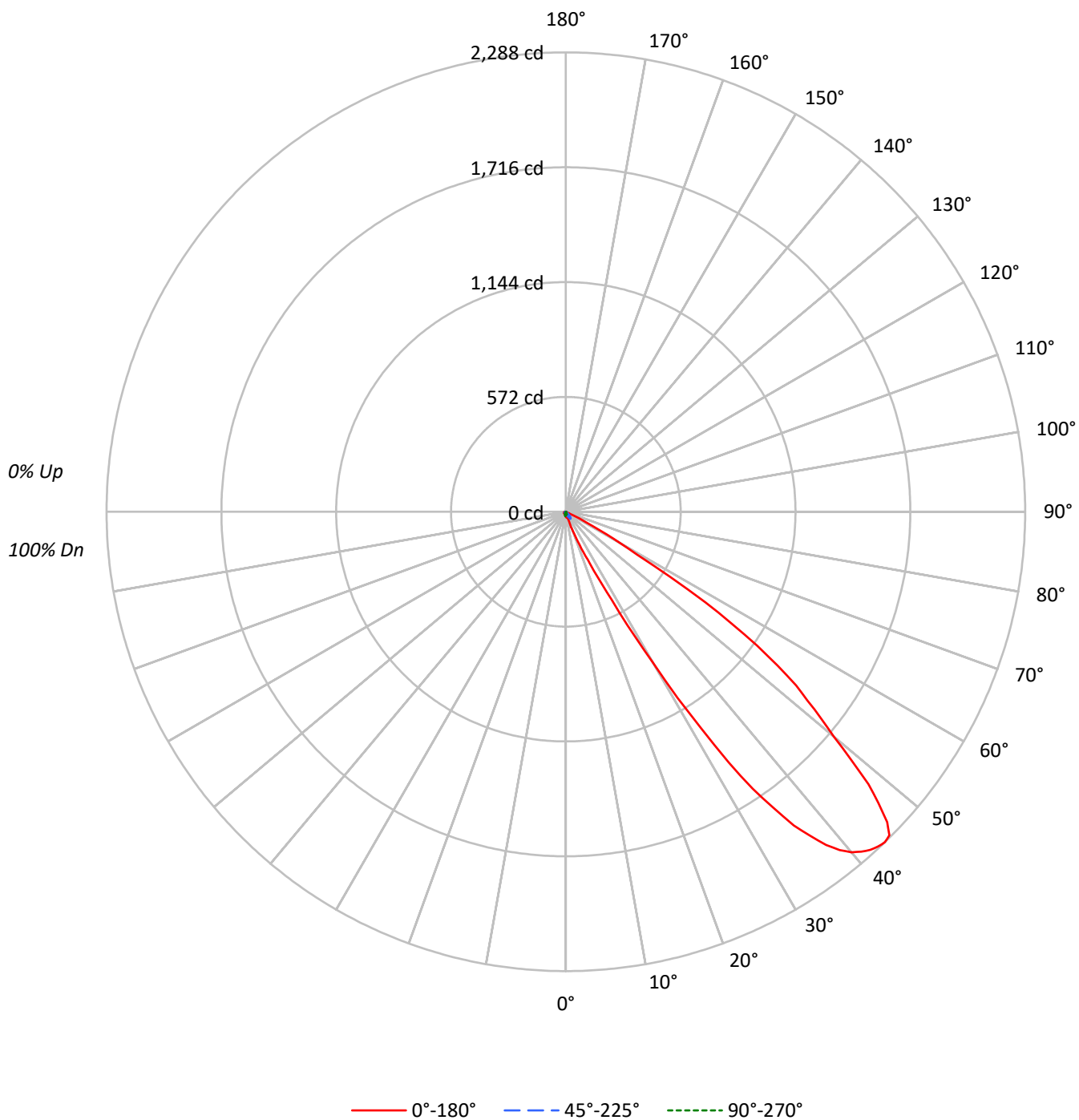
Lumens per Lamp: N/A
Luminaire Lumens: 477.0 lumens
Efficiency: N/A
Efficacy: 32.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	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°	5329	5329	5329	5329	5329
5°	6097	5811	5173	4622	4534
10°	6079	5522	4386	3830	3830
15°	6765	4767	3428	3246	3428
20°	23895	4690	2637	2754	3034
25°	68762	6000	2129	2540	2952
30°	219376	9242	1696	2456	2988
35°	480454	10895	1472	2356	3025
40°	633816	9847	1202	2405	3235
45°	706802	6884	1178	2605	3504
50°	594983	3582	1160	2729	3855
55°	444811	1453	1109	3058	4320
60°	137708	351	1096	3333	4780
65°	11778	0	1297	3476	5241
70°	833	256	1346	4039	5898
75°	678	339	1779	4236	6778
80°	505	505	2652	4799	7956
85°	1006	1006	4277	5284	8554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 706802 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	5.6	1.2
20°-30°	26.4	5.5
30°-40°	127.1	26.6
40°-50°	199.2	41.8
50°-60°	102.1	21.4
60°-70°	9.6	2.0
70°-80°	3.2	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°	34.2	7.2
0°-40°	161.2	33.8
0°-60°	462.5	97.0
0°-90°	477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	477.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	28	26	24	21	21	3
15°	30	21	15	14	15	13
25°	284	25	9	10	12	176
35°	1795	41	6	9	11	1090
45°	2279	22	4	8	11	1668
55°	1164	4	3	8	11	969
65°	23	0	2	7	10	71
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°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	26.4	26.4	26.4	26.4	26.4	26.4	26.0	26.0	26.4	26.0	26.0
5°	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.3	27.3	27.3	26.4
7.5°	28.1	27.7	27.7	27.7	27.7	27.7	27.7	27.7	27.3	27.3	26.0
10°	27.3	27.3	27.3	27.3	26.9	26.9	26.9	26.4	26.4	26.4	24.8
12.5°	27.3	27.3	27.3	27.3	26.9	26.9	26.4	26.4	26.0	25.6	22.7
15°	29.8	29.8	29.8	29.4	29.0	28.5	28.1	27.7	27.3	26.4	21.0
17.5°	43.7	42.4	42.0	40.3	38.2	36.1	34.4	32.7	31.1	29.8	20.1
20°	102.4	102.0	99.9	94.9	89.4	83.1	76.8	69.7	59.6	52.9	20.1
22.5°	177.6	175.0	171.3	167.5	157.8	146.5	134.7	121.3	108.3	94.4	21.4
25°	284.2	290.0	277.5	267.4	250.6	230.0	207.8	189.3	165.8	144.0	24.8
27.5°	494.0	497.8	473.1	440.3	401.3	358.0	316.1	284.6	245.1	209.0	31.1
30°	866.4	870.1	828.6	758.9	678.3	607.4	511.3	426.9	349.2	289.2	36.5
31°	1081.3	1051.9	1003.6	936.0	834.0	727.0	611.6	509.6	411.4	332.4	38.2
32°	1268.1	1265.5	1209.3	1106.9	1004.5	872.2	729.1	596.0	475.6	376.1	39.5
33°	1488.4	1471.6	1392.3	1295.8	1160.2	1027.1	842.4	690.5	541.5	424.8	40.3
34°	1665.1	1619.8	1587.1	1476.7	1333.5	1164.0	966.3	790.4	623.7	471.8	40.7
35°	1794.8	1785.2	1721.4	1618.6	1472.9	1299.5	1099.7	894.1	692.6	526.4	40.7
36°	1932.1	1902.3	1840.2	1747.0	1605.1	1425.9	1201.7	983.9	772.8	575.5	40.3
37°	2018.2	2000.5	1938.8	1842.7	1703.8	1532.5	1315.9	1078.8	836.6	624.6	39.5
38°	2106.7	2071.0	2010.2	1918.3	1781.8	1621.1	1398.6	1151.8	895.3	667.8	38.2
39°	2168.0	2131.1	2068.9	1977.4	1844.0	1684.5	1464.1	1213.9	946.5	700.1	36.5
40°	2214.2	2178.5	2115.5	2021.5	1889.7	1734.4	1518.7	1268.9	989.3	728.3	34.4
41°	2242.7	2209.6	2147.0	2053.4	1921.2	1762.9	1554.3	1304.6	1018.3	747.2	32.3
42°	2266.6	2232.6	2168.8	2073.1	1940.5	1787.3	1576.2	1327.2	1038.0	756.8	30.6
43°	2280.1	2246.1	2184.0	2086.2	1952.3	1798.6	1587.9	1337.7	1044.8	755.5	27.7
44°	2287.6	2252.4	2189.8	2092.0	1957.3	1801.6	1588.7	1335.6	1040.1	745.5	25.2
45°	2279.2	2244.4	2184.0	2086.2	1948.5	1792.3	1580.4	1324.3	1022.5	725.7	22.2
46°	2224.7	2197.8	2142.4	2052.6	1920.8	1768.8	1558.9	1302.5	995.2	701.4	18.9
47°	2128.5	2107.1	2053.4	1986.7	1867.5	1725.6	1519.5	1260.9	957.0	664.9	15.1
48°	2028.2	1996.7	1946.8	1878.4	1777.6	1647.9	1454.4	1200.1	899.1	617.0	13.4
49°	1880.1	1861.6	1817.5	1741.1	1657.6	1543.4	1362.5	1122.0	828.2	565.0	11.8
50°	1744.1	1731.5	1669.8	1613.5	1524.9	1418.3	1237.8	1019.2	740.0	500.3	10.5
51°	1637.9	1622.7	1578.3	1508.2	1413.7	1289.9	1119.9	885.7	638.9	423.5	8.4
52°	1527.0	1518.7	1479.2	1407.0	1314.2	1190.8	1005.3	772.3	540.6	358.0	6.7
53°	1436.4	1424.2	1375.9	1311.7	1211.4	1083.8	881.1	667.0	457.9	301.0	5.9
54°	1304.2	1299.1	1268.1	1200.9	1092.2	953.2	768.6	561.6	382.0	255.2	5.0
55°	1163.5	1146.8	1115.3	1062.0	962.1	832.4	638.4	465.5	308.9	214.9	3.8
56°	992.3	991.4	935.2	890.7	802.1	664.5	510.0	363.5	251.0	179.2	3.4
57°	828.6	802.1	748.0	703.9	608.6	504.1	378.6	272.4	196.4	145.2	2.5
58°	612.8	599.0	584.7	520.1	431.9	357.2	270.3	191.4	145.2	110.8	1.7
59°	416.0	415.6	398.8	349.7	298.9	222.5	168.7	130.1	99.9	81.4	1.3
60°	314.0	306.4	272.8	240.5	188.0	140.6	99.9	76.8	62.1	52.5	0.8
62.5°	110.0	114.2	100.3	83.1	63.4	52.0	39.9	32.3	26.4	21.4	0.0
65°	22.7	24.8	21.4	20.1	16.0	13.9	12.2	10.5	8.8	7.6	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°	2.9	2.5	2.5	2.5	2.1	2.1	2.1	2.1	1.7	1.7	0.4
70°	1.3	1.3	1.3	1.3	1.3	1.3	0.8	0.8	0.8	0.8	0.4
72.5°	1.3	1.3	1.3	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	25.6	24.8	23.5	23.1	22.7	22.7
5°	25.2	23.5	22.2	21.0	20.6	20.6
7.5°	23.9	21.8	20.1	19.3	18.9	18.5
10°	22.7	19.7	18.0	17.2	17.2	17.2
12.5°	20.1	17.6	16.0	15.5	16.0	16.0
15°	18.0	15.1	14.3	14.3	14.7	15.1
17.5°	15.5	13.4	12.6	13.0	13.4	13.9
20°	13.9	11.3	11.3	11.8	13.0	13.0
22.5°	12.2	10.1	10.1	11.3	12.2	12.6
25°	10.9	8.8	9.2	10.5	11.8	12.2
27.5°	9.2	7.6	8.4	10.1	11.3	11.8
30°	8.0	6.7	8.0	9.7	10.9	11.8
31°	7.6	6.3	8.0	9.2	10.9	11.8
32°	6.7	6.3	7.6	9.2	10.9	11.3
33°	6.3	5.9	7.6	9.2	10.9	11.3
34°	5.9	5.5	7.1	9.2	10.9	11.3
35°	5.0	5.5	7.1	8.8	10.5	11.3
36°	4.6	5.0	7.1	8.8	10.5	11.3
37°	4.2	5.0	6.7	8.8	10.5	11.3
38°	3.8	4.6	6.7	8.8	10.5	11.3
39°	3.4	4.6	6.3	8.8	10.5	11.3
40°	2.9	4.2	6.3	8.4	10.5	11.3
41°	2.9	4.2	6.3	8.4	10.5	11.3
42°	2.5	4.2	6.3	8.4	10.5	11.3
43°	2.1	3.8	6.3	8.4	10.5	11.3
44°	1.7	3.8	5.9	8.4	10.5	11.3
45°	1.7	3.8	5.9	8.4	10.5	11.3
46°	1.3	3.4	5.9	8.4	10.5	11.3
47°	0.8	3.4	5.9	8.0	10.5	11.3
48°	0.8	3.4	5.9	8.0	10.5	11.3
49°	0.8	3.4	5.5	8.0	10.5	11.3
50°	0.8	3.4	5.5	8.0	10.5	11.3
51°	0.4	2.9	5.5	8.0	10.5	11.3
52°	0.4	2.9	5.5	8.0	10.5	11.8
53°	0.4	2.9	5.5	8.0	10.5	11.3
54°	0.4	2.9	5.0	8.0	10.5	11.3
55°	0.4	2.9	5.0	8.0	10.5	11.3
56°	0.4	2.5	5.0	7.6	10.5	11.3
57°	0.8	2.5	5.0	7.6	10.5	10.9
58°	0.8	2.5	5.0	7.6	10.1	10.9
59°	0.8	2.5	5.0	7.6	10.1	10.9
60°	0.8	2.5	4.6	7.6	10.1	10.9
62.5°	0.8	2.5	4.6	7.1	9.7	10.5
65°	0.8	2.5	4.2	6.7	9.7	10.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.1	4.2	6.3	9.2	9.7
70°	1.3	2.1	3.8	6.3	8.8	9.2
72.5°	1.3	2.1	3.8	5.5	8.0	8.8
75°	1.3	2.1	3.4	5.0	7.6	8.0
77.5°	1.3	2.1	2.9	4.6	6.7	7.1
80°	1.7	2.1	2.5	3.8	5.9	6.3
82.5°	1.7	2.1	2.1	2.9	4.6	5.0
85°	1.3	1.7	1.7	2.1	2.9	3.4
87.5°	1.3	1.7	1.3	0.8	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)