

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: P1344678

Luminaire Tested: P3A13R25B2750DE010 E3A451WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344678
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: P3A13R25B2750DE010 E3A451WMH_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 5000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

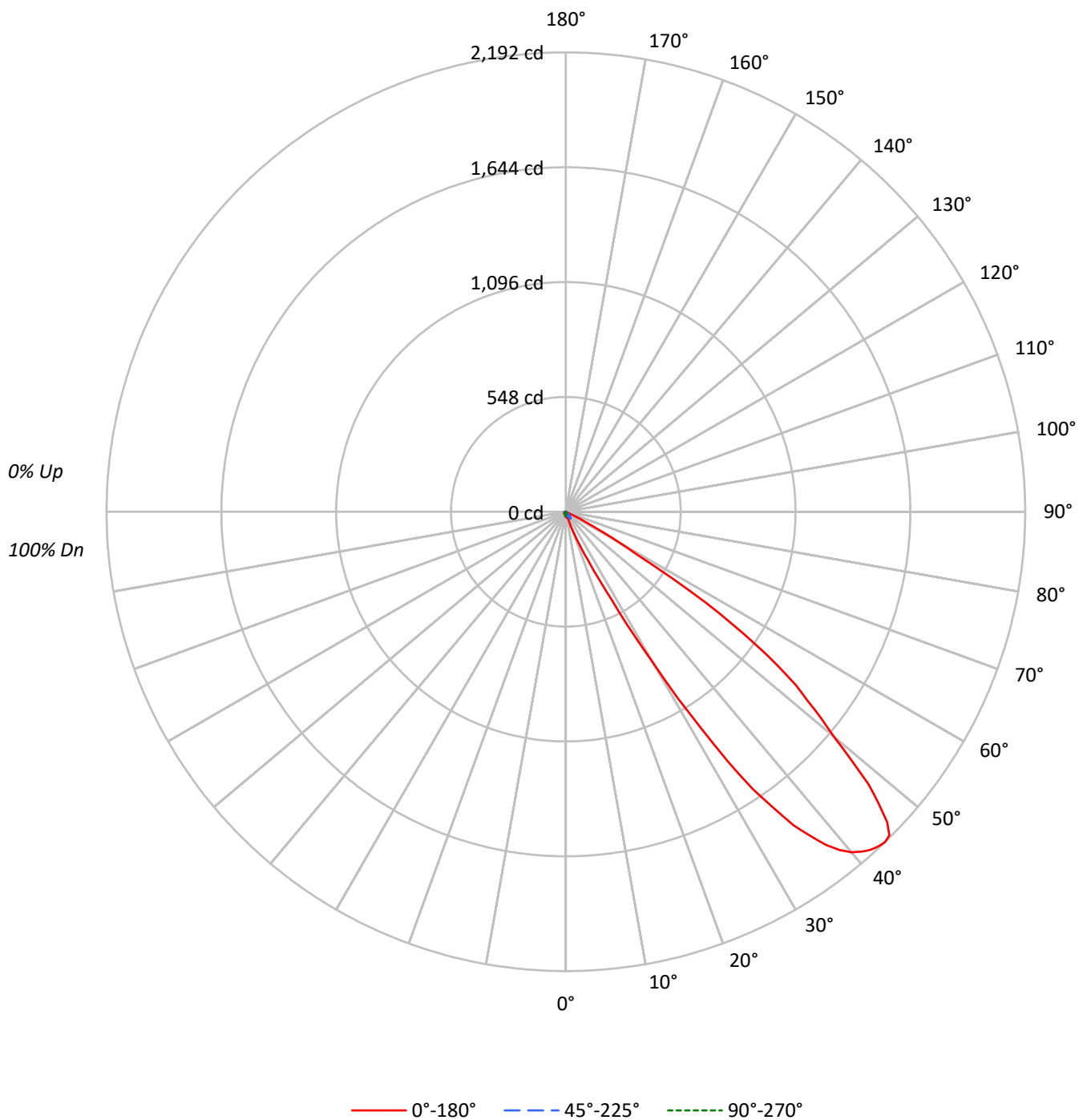
Lumens per Lamp: N/A
Luminaire Lumens: 457.0 lumens
Efficiency: N/A
Efficacy: 23.9 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 19.1
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°	5109	5109	5109	5109	5109
5°	5833	5569	4953	4424	4336
10°	5812	5277	4208	3674	3674
15°	6493	4563	3292	3110	3292
20°	22892	4504	2544	2637	2917
25°	65883	5734	2032	2444	2831
30°	210159	8862	1621	2329	2861
35°	460324	10440	1392	2249	2918
40°	607223	9446	1145	2290	3120
45°	677187	6605	1116	2481	3380
50°	570011	3446	1092	2593	3718
55°	426193	1376	1070	2906	4167
60°	131919	351	1053	3158	4605
65°	11259	0	1245	3321	5033
70°	769	256	1282	3847	5642
75°	678	339	1694	4067	6439
80°	505	505	2526	4546	7577
85°	1006	1006	4026	5032	8051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 677187 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	5.4	1.2
20°-30°	25.3	5.5
30°-40°	121.7	26.6
40°-50°	190.8	41.8
50°-60°	97.8	21.4
60°-70°	9.2	2.0
70°-80°	3.1	0.7
80°-90°	1.5	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°	32.8	7.2
0°-40°	154.5	33.8
0°-60°	443.1	97.0
0°-90°	457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	457.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	26	25	22	20	20	3
15°	29	20	14	14	14	12
25°	272	24	8	10	12	169
35°	1720	39	5	8	11	1044
45°	2184	21	4	8	11	1598
55°	1115	4	3	8	11	928
65°	22	0	2	6	10	68
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°	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
2.5°	25.3	25.3	25.3	25.3	25.3	25.3	24.9	24.9	25.3	24.9	24.9
5°	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.1	26.1	26.1	25.3
7.5°	26.9	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.1	26.1	24.9
10°	26.1	26.1	26.1	26.1	25.7	25.7	25.7	25.3	25.3	25.3	23.7
12.5°	26.1	26.1	26.1	26.1	25.7	25.7	25.3	25.3	24.9	24.5	21.7
15°	28.6	28.6	28.6	28.2	27.7	27.3	26.9	26.5	26.1	25.3	20.1
17.5°	41.8	40.6	40.2	38.6	36.6	34.6	33.0	31.4	29.8	28.6	19.3
20°	98.1	97.7	95.7	90.9	85.7	79.6	73.6	66.8	57.1	50.7	19.3
22.5°	170.1	167.7	164.1	160.5	151.2	140.4	129.1	116.2	103.8	90.5	20.5
25°	272.3	277.9	265.8	256.2	240.1	220.4	199.1	181.4	158.8	137.9	23.7
27.5°	473.3	476.9	453.2	421.9	384.5	343.0	302.8	272.7	234.9	200.3	29.8
30°	830.0	833.7	793.8	727.1	649.9	581.9	489.8	409.0	334.6	277.1	35.0
31°	1035.9	1007.8	961.5	896.8	799.1	696.5	585.9	488.2	394.1	318.5	36.6
32°	1214.9	1212.5	1158.6	1060.5	962.3	835.7	698.5	571.1	455.6	360.3	37.8
33°	1426.0	1409.9	1333.9	1241.4	1111.5	984.1	807.1	661.5	518.8	407.0	38.6
34°	1595.3	1551.9	1520.5	1414.8	1277.6	1115.2	925.7	757.2	597.6	452.0	39.0
35°	1719.6	1710.3	1649.2	1550.7	1411.1	1245.1	1053.6	856.6	663.5	504.3	39.0
36°	1851.1	1822.5	1763.0	1673.7	1537.8	1366.1	1151.4	942.6	740.4	551.3	38.6
37°	1933.5	1916.6	1857.5	1765.4	1632.3	1468.2	1260.7	1033.5	801.5	598.4	37.8
38°	2018.4	1984.2	1925.9	1837.8	1707.1	1553.1	1340.0	1103.5	857.8	639.8	36.6
39°	2077.1	2041.7	1982.2	1894.5	1766.6	1613.8	1402.7	1163.0	906.8	670.8	35.0
40°	2121.3	2087.2	2026.8	1936.8	1810.5	1661.7	1455.0	1215.7	947.9	697.7	33.0
41°	2148.7	2116.9	2057.0	1967.3	1840.6	1689.0	1489.2	1249.9	975.6	715.8	31.0
42°	2171.6	2139.0	2077.9	1986.2	1859.1	1712.4	1510.1	1271.6	994.5	725.1	29.4
43°	2184.5	2151.9	2092.4	1998.7	1870.4	1723.2	1521.3	1281.6	1000.9	723.9	26.5
44°	2191.7	2157.9	2098.0	2004.3	1875.2	1726.0	1522.1	1279.6	996.5	714.2	24.1
45°	2183.7	2150.3	2092.4	1998.7	1866.8	1717.2	1514.1	1268.8	979.6	695.3	21.3
46°	2131.4	2105.7	2052.6	1966.5	1840.2	1694.7	1493.6	1247.9	953.5	672.0	18.1
47°	2039.3	2018.8	1967.3	1903.4	1789.2	1653.2	1455.8	1208.1	916.9	637.0	14.5
48°	1943.2	1913.0	1865.2	1799.6	1703.1	1578.8	1393.4	1149.7	861.4	591.2	12.9
49°	1801.2	1783.5	1741.3	1668.1	1588.1	1478.7	1305.4	1074.9	793.4	541.3	11.3
50°	1670.9	1658.9	1599.7	1545.9	1461.0	1358.9	1185.9	976.4	709.0	479.4	10.1
51°	1569.2	1554.7	1512.1	1444.9	1354.4	1235.8	1072.9	848.5	612.1	405.8	8.0
52°	1463.0	1455.0	1417.2	1348.0	1259.1	1140.9	963.1	740.0	518.0	343.0	6.4
53°	1376.2	1364.5	1318.2	1256.7	1160.6	1038.3	844.1	639.0	438.7	288.3	5.6
54°	1249.5	1244.7	1214.9	1150.5	1046.4	913.3	736.3	538.1	366.0	244.5	4.8
55°	1114.8	1098.7	1068.5	1017.4	921.7	797.5	611.7	446.0	296.0	205.9	3.6
56°	950.7	949.9	896.0	853.4	768.5	636.6	488.6	348.3	240.5	171.7	3.2
57°	793.8	768.5	716.6	674.4	583.1	483.0	362.7	261.0	188.2	139.1	2.4
58°	587.1	573.9	560.2	498.3	413.8	342.2	259.0	183.4	139.1	106.2	1.6
59°	398.5	398.1	382.0	335.0	286.3	213.1	161.7	124.7	95.7	78.0	1.2
60°	300.8	293.6	261.4	230.4	180.2	134.7	95.7	73.6	59.5	50.3	0.8
62.5°	105.4	109.4	96.1	79.6	60.7	49.9	38.2	31.0	25.3	20.5	0.0
65°	21.7	23.7	20.5	19.3	15.3	13.3	11.7	10.1	8.4	7.2	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°	2.8	2.4	2.4	2.4	2.0	2.0	2.0	2.0	1.6	1.6	0.4
70°	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.4
72.5°	1.2	1.2	1.2	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°	23.3	23.3	23.3	23.3	23.3	23.3
2.5°	24.5	23.7	22.5	22.1	21.7	21.7
5°	24.1	22.5	21.3	20.1	19.7	19.7
7.5°	22.9	20.9	19.3	18.5	18.1	17.7
10°	21.7	18.9	17.3	16.5	16.5	16.5
12.5°	19.3	16.9	15.3	14.9	15.3	15.3
15°	17.3	14.5	13.7	13.7	14.1	14.5
17.5°	14.9	12.9	12.1	12.5	12.9	13.3
20°	13.3	10.9	10.9	11.3	12.5	12.5
22.5°	11.7	9.7	9.7	10.9	11.7	12.1
25°	10.5	8.4	8.8	10.1	11.3	11.7
27.5°	8.8	7.2	8.0	9.7	10.9	11.3
30°	7.6	6.4	7.6	9.2	10.5	11.3
31°	7.2	6.0	7.6	8.8	10.5	11.3
32°	6.4	6.0	7.2	8.8	10.5	10.9
33°	6.0	5.6	7.2	8.8	10.5	10.9
34°	5.6	5.2	6.8	8.8	10.5	10.9
35°	4.8	5.2	6.8	8.4	10.1	10.9
36°	4.4	4.8	6.8	8.4	10.1	10.9
37°	4.0	4.8	6.4	8.4	10.1	10.9
38°	3.6	4.4	6.4	8.4	10.1	10.9
39°	3.2	4.4	6.0	8.4	10.1	10.9
40°	2.8	4.0	6.0	8.0	10.1	10.9
41°	2.8	4.0	6.0	8.0	10.1	10.9
42°	2.4	4.0	6.0	8.0	10.1	10.9
43°	2.0	3.6	6.0	8.0	10.1	10.9
44°	1.6	3.6	5.6	8.0	10.1	10.9
45°	1.6	3.6	5.6	8.0	10.1	10.9
46°	1.2	3.2	5.6	8.0	10.1	10.9
47°	0.8	3.2	5.6	7.6	10.1	10.9
48°	0.8	3.2	5.6	7.6	10.1	10.9
49°	0.8	3.2	5.2	7.6	10.1	10.9
50°	0.8	3.2	5.2	7.6	10.1	10.9
51°	0.4	2.8	5.2	7.6	10.1	10.9
52°	0.4	2.8	5.2	7.6	10.1	11.3
53°	0.4	2.8	5.2	7.6	10.1	10.9
54°	0.4	2.8	4.8	7.6	10.1	10.9
55°	0.4	2.8	4.8	7.6	10.1	10.9
56°	0.4	2.4	4.8	7.2	10.1	10.9
57°	0.8	2.4	4.8	7.2	10.1	10.5
58°	0.8	2.4	4.8	7.2	9.7	10.5
59°	0.8	2.4	4.8	7.2	9.7	10.5
60°	0.8	2.4	4.4	7.2	9.7	10.5
62.5°	0.8	2.4	4.4	6.8	9.2	10.1
65°	0.8	2.4	4.0	6.4	9.2	9.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.0	4.0	6.0	8.8	9.2
70°	1.2	2.0	3.6	6.0	8.4	8.8
72.5°	1.2	2.0	3.6	5.2	7.6	8.4
75°	1.2	2.0	3.2	4.8	7.2	7.6
77.5°	1.2	2.0	2.8	4.4	6.4	6.8
80°	1.6	2.0	2.4	3.6	5.6	6.0
82.5°	1.6	2.0	2.0	2.8	4.4	4.8
85°	1.2	1.6	1.6	2.0	2.8	3.2
87.5°	1.2	1.6	1.2	0.8	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)