

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: P1344674

Luminaire Tested: P3A13R25B2750DE010 E3A451WMH_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344674
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_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 2700K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

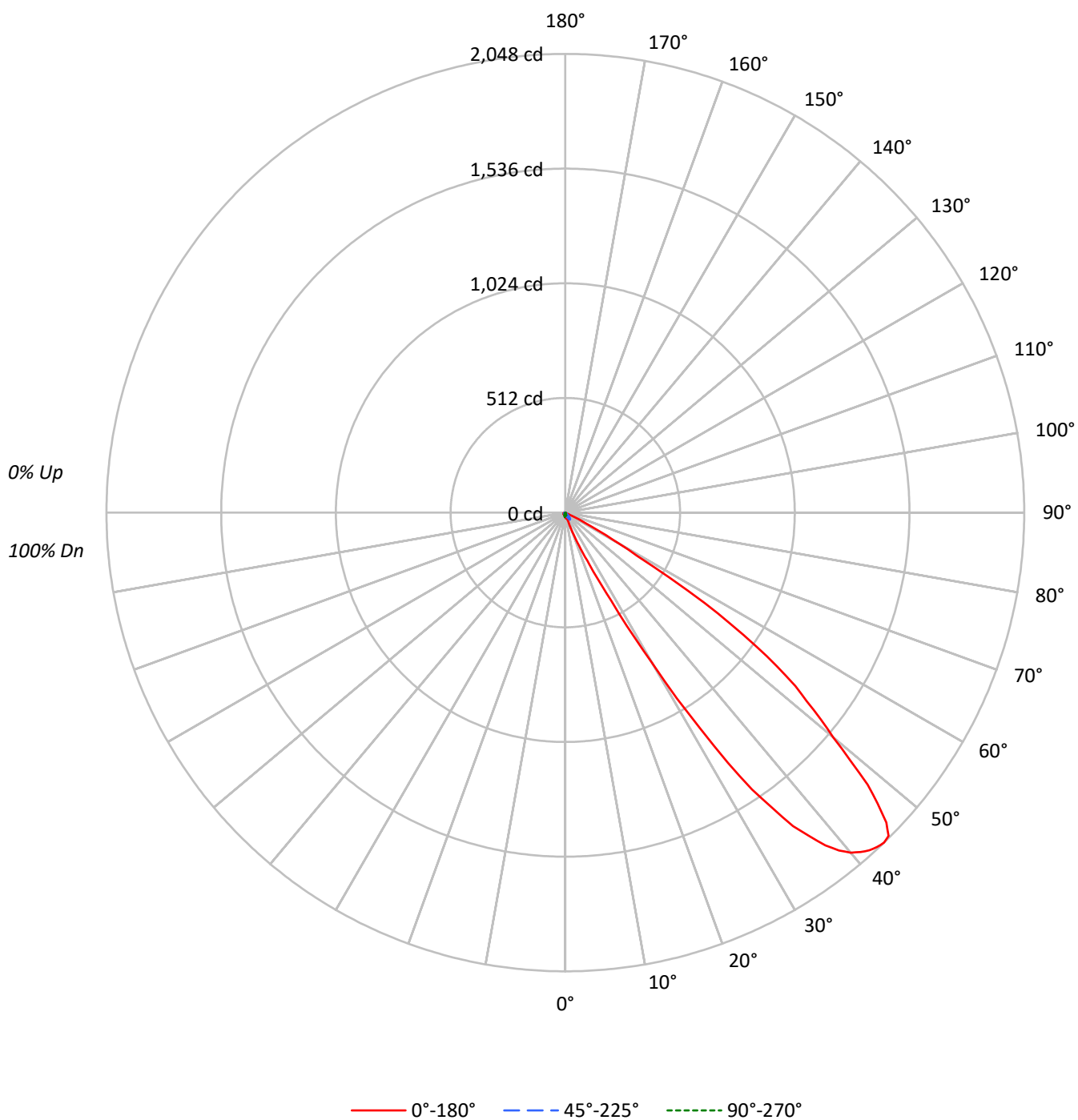
Lumens per Lamp: N/A
Luminaire Lumens: 427.0 lumens
Efficiency: N/A
Efficacy: 22.4 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	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°	4780	4780	4780	4780	4780
5°	5459	5217	4622	4138	4050
10°	5433	4943	3941	3429	3429
15°	6061	4268	3065	2906	3065
20°	21399	4200	2357	2450	2707
25°	61552	5371	1911	2274	2637
30°	196359	8280	1519	2178	2659
35°	430101	9744	1312	2115	2704
40°	567377	8817	1088	2147	2891
45°	632717	6171	1054	2326	3132
50°	532588	3207	1023	2422	3446
55°	398208	1300	994	2714	3861
60°	123280	351	1009	2982	4298
65°	10533	0	1193	3113	4670
70°	705	256	1218	3590	5321
75°	678	339	1610	3813	6015
80°	505	505	2399	4293	7072
85°	1006	1006	3774	4780	7548

MAXIMUM LUMINANCE 45°-90°:

Luminance: 632717 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	5.0	1.2
20°-30°	23.6	5.5
30°-40°	113.7	26.6
40°-50°	178.3	41.7
50°-60°	91.4	21.4
60°-70°	8.6	2.0
70°-80°	2.9	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°	30.6	7.2
0°-40°	144.3	33.8
0°-60°	414.0	97.0
0°-90°	427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	427.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	25	24	21	19	18	2
15°	27	19	14	13	14	11
25°	254	22	8	9	11	158
35°	1607	36	5	8	10	975
45°	2040	20	3	8	10	1493
55°	1042	3	3	7	10	867
65°	20	0	2	6	9	64
75°	1	0	2	4	7	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°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
2.5°	23.7	23.7	23.7	23.7	23.7	23.7	23.3	23.3	23.7	23.3	23.3
5°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.4	24.4	24.4	23.7
7.5°	25.2	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.4	24.4	23.3
10°	24.4	24.4	24.4	24.4	24.0	24.0	24.0	23.7	23.7	23.7	22.2
12.5°	24.4	24.4	24.4	24.4	24.0	24.0	23.7	23.7	23.3	22.9	20.3
15°	26.7	26.7	26.7	26.3	25.9	25.6	25.2	24.8	24.4	23.7	18.8
17.5°	39.1	38.0	37.6	36.1	34.2	32.3	30.8	29.3	27.8	26.7	18.0
20°	91.7	91.3	89.4	84.9	80.0	74.4	68.8	62.4	53.4	47.3	18.0
22.5°	158.9	156.7	153.3	149.9	141.3	131.1	120.6	108.6	96.9	84.5	19.2
25°	254.4	259.6	248.4	239.4	224.3	205.9	186.0	169.5	148.4	128.9	22.2
27.5°	442.3	445.6	423.5	394.2	359.2	320.5	282.9	254.8	219.4	187.1	27.8
30°	775.5	778.9	741.7	679.4	607.2	543.7	457.7	382.1	312.6	258.9	32.7
31°	967.9	941.6	898.4	837.9	746.6	650.8	547.5	456.2	368.2	297.6	34.2
32°	1135.1	1132.9	1082.5	990.9	899.2	780.8	652.7	533.6	425.7	336.7	35.3
33°	1332.4	1317.4	1246.4	1159.9	1038.6	919.5	754.1	618.1	484.7	380.3	36.1
34°	1490.6	1450.0	1420.7	1321.9	1193.8	1042.0	865.0	707.5	558.4	422.3	36.4
35°	1606.7	1598.1	1541.0	1448.9	1318.5	1163.3	984.5	800.3	620.0	471.2	36.4
36°	1729.6	1702.9	1647.3	1563.9	1436.9	1276.4	1075.8	880.8	691.8	515.2	36.1
37°	1806.6	1790.8	1735.6	1649.5	1525.2	1371.9	1178.0	965.7	748.9	559.1	35.3
38°	1885.9	1854.0	1799.5	1717.2	1595.1	1451.1	1252.0	1031.1	801.5	597.8	34.2
39°	1940.7	1907.7	1852.1	1770.2	1650.7	1507.9	1310.6	1086.7	847.3	626.8	32.7
40°	1982.1	1950.1	1893.8	1809.6	1691.6	1552.6	1359.5	1135.9	885.6	651.9	30.8
41°	2007.6	1977.9	1922.0	1838.2	1719.8	1578.1	1391.4	1167.8	911.6	668.8	28.9
42°	2029.0	1998.6	1941.5	1855.8	1737.1	1599.9	1410.9	1188.1	929.2	677.5	27.4
43°	2041.1	2010.6	1955.0	1867.5	1747.6	1610.1	1421.5	1197.5	935.2	676.3	24.8
44°	2047.8	2016.3	1960.3	1872.7	1752.1	1612.7	1422.2	1195.6	931.1	667.3	22.5
45°	2040.3	2009.1	1955.0	1867.5	1744.2	1604.5	1414.7	1185.5	915.3	649.7	19.9
46°	1991.5	1967.4	1917.8	1837.4	1719.4	1583.4	1395.5	1166.0	890.9	627.9	16.9
47°	1905.4	1886.3	1838.2	1778.4	1671.7	1544.7	1360.2	1128.8	856.7	595.2	13.5
48°	1815.6	1787.4	1742.7	1681.5	1591.3	1475.2	1302.0	1074.3	804.9	552.4	12.0
49°	1683.0	1666.5	1627.0	1558.6	1483.8	1381.6	1219.7	1004.4	741.4	505.8	10.5
50°	1561.2	1550.0	1494.7	1444.4	1365.1	1269.7	1108.1	912.3	662.4	447.9	9.4
51°	1466.2	1452.6	1412.8	1350.1	1265.5	1154.7	1002.5	792.8	571.9	379.1	7.5
52°	1367.0	1359.5	1324.1	1259.5	1176.5	1066.0	899.9	691.4	484.0	320.5	6.0
53°	1285.8	1274.9	1231.7	1174.2	1084.4	970.2	788.7	597.1	409.9	269.4	5.3
54°	1167.5	1162.9	1135.1	1075.0	977.7	853.3	688.0	502.8	341.9	228.5	4.5
55°	1041.6	1026.5	998.4	950.6	861.2	745.1	571.5	416.7	276.6	192.4	3.4
56°	888.3	887.5	837.2	797.3	718.1	594.8	456.5	325.4	224.7	160.4	3.0
57°	741.7	718.1	669.6	630.1	544.8	451.3	338.9	243.9	175.9	130.0	2.3
58°	548.6	536.2	523.4	465.6	386.6	319.8	242.0	171.3	130.0	99.2	1.5
59°	372.4	372.0	357.0	313.0	267.5	199.1	151.1	116.5	89.4	72.9	1.1
60°	281.1	274.3	244.2	215.3	168.3	125.9	89.4	68.8	55.6	47.0	0.8
62.5°	98.4	102.2	89.8	74.4	56.7	46.6	35.7	28.9	23.7	19.2	0.0
65°	20.3	22.2	19.2	18.0	14.3	12.4	10.9	9.4	7.9	6.8	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°	2.6	2.3	2.3	2.3	1.9	1.9	1.9	1.9	1.5	1.5	0.4
70°	1.1	1.1	1.1	1.1	1.1	1.1	0.8	0.8	0.8	0.8	0.4
72.5°	1.1	1.1	1.1	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°	21.8	21.8	21.8	21.8	21.8	21.8
2.5°	22.9	22.2	21.0	20.7	20.3	20.3
5°	22.5	21.0	19.9	18.8	18.4	18.4
7.5°	21.4	19.5	18.0	17.3	16.9	16.5
10°	20.3	17.7	16.2	15.4	15.4	15.4
12.5°	18.0	15.8	14.3	13.9	14.3	14.3
15°	16.2	13.5	12.8	12.8	13.2	13.5
17.5°	13.9	12.0	11.3	11.6	12.0	12.4
20°	12.4	10.1	10.1	10.5	11.6	11.6
22.5°	10.9	9.0	9.0	10.1	10.9	11.3
25°	9.8	7.9	8.3	9.4	10.5	10.9
27.5°	8.3	6.8	7.5	9.0	10.1	10.5
30°	7.1	6.0	7.1	8.6	9.8	10.5
31°	6.8	5.6	7.1	8.3	9.8	10.5
32°	6.0	5.6	6.8	8.3	9.8	10.1
33°	5.6	5.3	6.8	8.3	9.8	10.1
34°	5.3	4.9	6.4	8.3	9.8	10.1
35°	4.5	4.9	6.4	7.9	9.4	10.1
36°	4.1	4.5	6.4	7.9	9.4	10.1
37°	3.8	4.5	6.0	7.9	9.4	10.1
38°	3.4	4.1	6.0	7.9	9.4	10.1
39°	3.0	4.1	5.6	7.9	9.4	10.1
40°	2.6	3.8	5.6	7.5	9.4	10.1
41°	2.6	3.8	5.6	7.5	9.4	10.1
42°	2.3	3.8	5.6	7.5	9.4	10.1
43°	1.9	3.4	5.6	7.5	9.4	10.1
44°	1.5	3.4	5.3	7.5	9.4	10.1
45°	1.5	3.4	5.3	7.5	9.4	10.1
46°	1.1	3.0	5.3	7.5	9.4	10.1
47°	0.8	3.0	5.3	7.1	9.4	10.1
48°	0.8	3.0	5.3	7.1	9.4	10.1
49°	0.8	3.0	4.9	7.1	9.4	10.1
50°	0.8	3.0	4.9	7.1	9.4	10.1
51°	0.4	2.6	4.9	7.1	9.4	10.1
52°	0.4	2.6	4.9	7.1	9.4	10.5
53°	0.4	2.6	4.9	7.1	9.4	10.1
54°	0.4	2.6	4.5	7.1	9.4	10.1
55°	0.4	2.6	4.5	7.1	9.4	10.1
56°	0.4	2.3	4.5	6.8	9.4	10.1
57°	0.8	2.3	4.5	6.8	9.4	9.8
58°	0.8	2.3	4.5	6.8	9.0	9.8
59°	0.8	2.3	4.5	6.8	9.0	9.8
60°	0.8	2.3	4.1	6.8	9.0	9.8
62.5°	0.8	2.3	4.1	6.4	8.6	9.4
65°	0.8	2.3	3.8	6.0	8.6	9.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	1.9	3.8	5.6	8.3	8.6
70°	1.1	1.9	3.4	5.6	7.9	8.3
72.5°	1.1	1.9	3.4	4.9	7.1	7.9
75°	1.1	1.9	3.0	4.5	6.8	7.1
77.5°	1.1	1.9	2.6	4.1	6.0	6.4
80°	1.5	1.9	2.3	3.4	5.3	5.6
82.5°	1.5	1.9	1.9	2.6	4.1	4.5
85°	1.1	1.5	1.5	1.9	2.6	3.0
87.5°	1.1	1.5	1.1	0.8	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)