

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: P1337595

Luminaire Tested: P3A05R25B2750DE010 E3CA451MB_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337595
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: P3A05R25B2750DE010 E3CA451MB_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 4000K CCT AND, 80CRI , E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

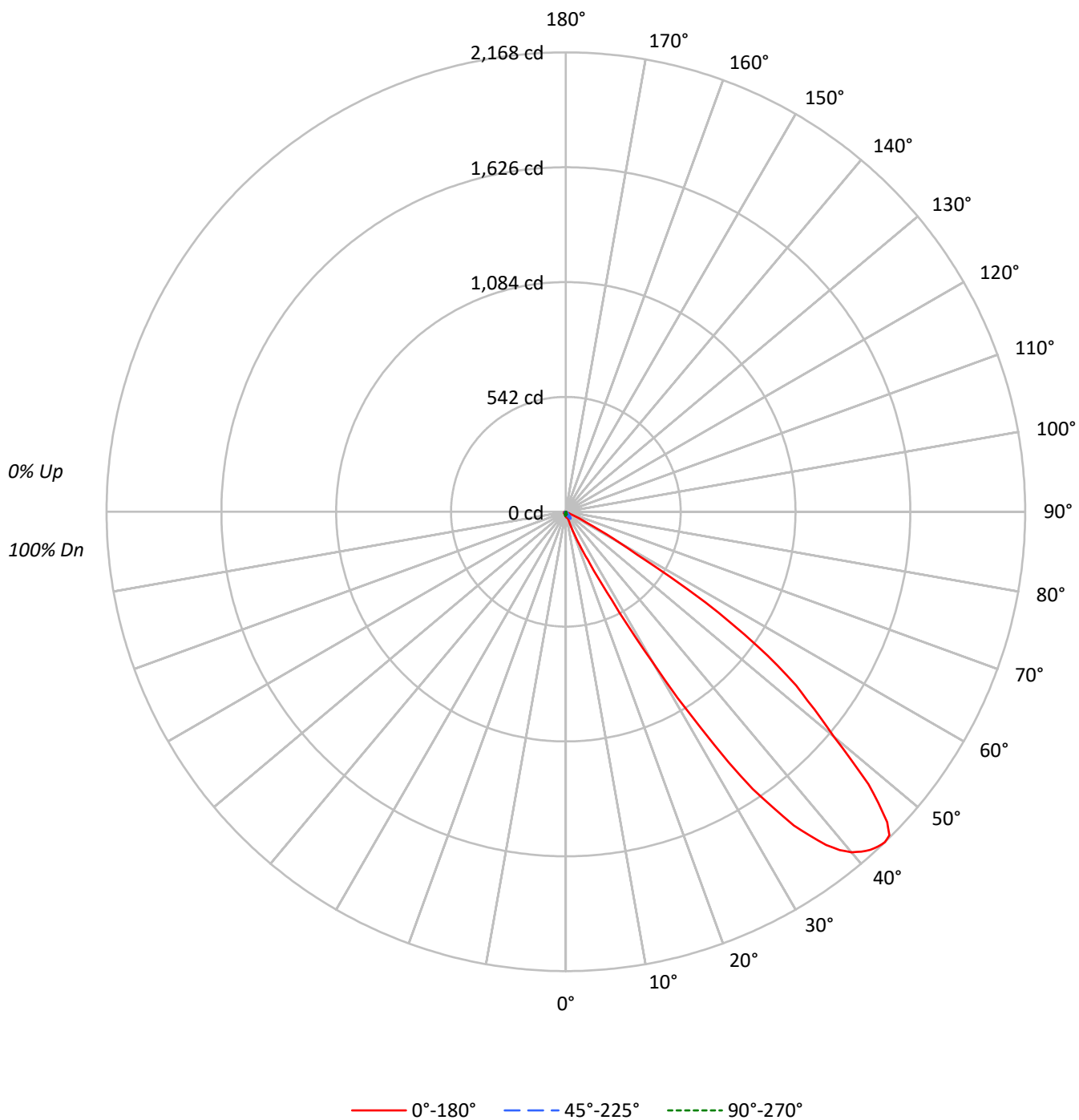
Lumens per Lamp: N/A
Luminaire Lumens: 452.0 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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				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	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°	5065	5065	5065	5065	5065
5°	5789	5525	4909	4380	4292
10°	5767	5233	4164	3629	3629
15°	6402	4518	3246	3065	3246
20°	22659	4457	2497	2590	2870
25°	65157	5686	2032	2395	2782
30°	207880	8761	1621	2304	2811
35°	455291	10333	1392	2249	2864
40°	600582	9332	1145	2290	3063
45°	669775	6543	1116	2481	3318
50°	563768	3377	1092	2593	3650
55°	421529	1376	1070	2906	4091
60°	130472	351	1053	3158	4517
65°	11156	0	1245	3321	4929
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: 669775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	5.3	1.2
20°-30°	25.0	5.5
30°-40°	120.4	26.6
40°-50°	188.7	41.7
50°-60°	96.8	21.4
60°-70°	9.1	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°	32.4	7.2
0°-40°	152.8	33.8
0°-60°	438.3	97.0
0°-90°	452.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	452.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	26	25	22	20	20	2
15°	28	20	14	14	14	12
25°	269	24	8	10	12	167
35°	1701	39	5	8	11	1032
45°	2160	21	4	8	11	1580
55°	1103	4	3	8	11	918
65°	22	0	2	6	10	67
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°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
2.5°	25.1	25.1	25.1	25.1	25.1	25.1	24.7	24.7	25.1	24.7	24.7
5°	26.3	26.3	26.3	26.3	26.3	26.3	26.3	25.9	25.9	25.9	25.1
7.5°	26.6	26.3	26.3	26.3	26.3	26.3	26.3	26.3	25.9	25.9	24.7
10°	25.9	25.9	25.9	25.9	25.5	25.5	25.5	25.1	25.1	25.1	23.5
12.5°	25.9	25.9	25.9	25.9	25.5	25.5	25.1	25.1	24.7	24.3	21.5
15°	28.2	28.2	28.2	27.8	27.4	27.0	26.6	26.3	25.9	25.1	19.9
17.5°	41.4	40.2	39.8	38.2	36.2	34.2	32.6	31.0	29.4	28.2	19.1
20°	97.1	96.7	94.7	89.9	84.7	78.8	72.8	66.0	56.5	50.1	19.1
22.5°	168.2	165.9	162.3	158.7	149.6	138.8	127.7	114.9	102.6	89.5	20.3
25°	269.3	274.8	262.9	253.4	237.5	218.0	196.9	179.4	157.1	136.4	23.5
27.5°	468.2	471.7	448.3	417.2	380.2	339.3	299.5	269.7	232.3	198.1	29.4
30°	821.0	824.5	785.2	719.1	642.8	575.5	484.5	404.5	330.9	274.0	34.6
31°	1024.6	996.8	951.0	887.0	790.3	688.9	579.5	482.9	389.8	315.0	36.2
32°	1201.6	1199.2	1145.9	1048.9	951.8	826.5	690.9	564.8	450.7	356.4	37.4
33°	1410.4	1394.5	1319.3	1227.9	1099.4	973.3	798.3	654.3	513.1	402.5	38.2
34°	1577.9	1534.9	1503.9	1399.3	1263.6	1103.0	915.6	749.0	591.1	447.1	38.6
35°	1700.8	1691.6	1631.2	1533.7	1395.7	1231.4	1042.1	847.2	656.3	498.8	38.6
36°	1830.8	1802.6	1743.7	1655.4	1521.0	1351.2	1138.8	932.3	732.3	545.3	38.2
37°	1912.4	1895.7	1837.2	1746.1	1614.5	1452.2	1246.9	1022.2	792.7	591.9	37.4
38°	1996.3	1962.5	1904.8	1817.7	1688.4	1536.1	1325.3	1091.4	848.4	632.8	36.2
39°	2054.4	2019.4	1960.5	1873.8	1747.3	1596.2	1387.3	1150.3	896.9	663.4	34.6
40°	2098.1	2064.3	2004.7	1915.6	1790.7	1643.5	1439.1	1202.4	937.5	690.1	32.6
41°	2125.2	2093.8	2034.5	1945.8	1820.5	1670.5	1472.9	1236.2	964.9	708.0	30.6
42°	2147.8	2115.6	2055.2	1964.5	1838.8	1693.6	1493.5	1257.7	983.6	717.1	29.0
43°	2160.6	2128.4	2069.5	1976.8	1849.9	1704.4	1504.7	1267.6	990.0	715.9	26.3
44°	2167.7	2134.3	2075.1	1982.4	1854.7	1707.1	1505.5	1265.6	985.6	706.4	23.9
45°	2159.8	2126.8	2069.5	1976.8	1846.4	1698.4	1497.5	1254.9	968.9	687.7	21.1
46°	2108.1	2082.6	2030.1	1945.0	1820.1	1676.1	1477.2	1234.2	943.1	664.6	17.9
47°	2017.0	1996.7	1945.8	1882.5	1769.6	1635.1	1439.9	1194.8	906.9	630.0	14.3
48°	1921.9	1892.1	1844.8	1779.9	1684.5	1561.6	1378.2	1137.2	852.0	584.7	12.7
49°	1781.5	1764.0	1722.3	1649.9	1570.7	1462.5	1291.1	1063.2	784.8	535.4	11.1
50°	1652.6	1640.7	1582.2	1528.9	1445.0	1344.0	1173.0	965.7	701.2	474.1	9.9
51°	1552.0	1537.7	1495.5	1429.1	1339.6	1222.3	1061.2	839.3	605.4	401.3	8.0
52°	1447.0	1439.1	1401.7	1333.3	1245.4	1128.4	952.6	731.9	512.3	339.3	6.4
53°	1361.1	1349.6	1303.8	1243.0	1147.9	1027.0	834.9	632.0	433.9	285.2	5.6
54°	1235.8	1231.0	1201.6	1138.0	1034.9	903.3	728.3	532.2	362.0	241.8	4.8
55°	1102.6	1086.7	1056.8	1006.3	911.6	788.7	605.0	441.1	292.7	203.6	3.6
56°	940.3	939.5	886.2	844.0	760.1	629.6	483.3	344.5	237.9	169.8	3.2
57°	785.2	760.1	708.8	667.0	576.7	477.7	358.8	258.1	186.1	137.6	2.4
58°	580.7	567.6	554.1	492.8	409.3	338.5	256.2	181.4	137.6	105.0	1.6
59°	394.2	393.8	377.9	331.3	283.2	210.8	159.9	123.3	94.7	77.2	1.2
60°	297.5	290.4	258.5	227.9	178.2	133.2	94.7	72.8	58.9	49.7	0.8
62.5°	104.2	108.2	95.1	78.8	60.1	49.3	37.8	30.6	25.1	20.3	0.0
65°	21.5	23.5	20.3	19.1	15.1	13.1	11.5	9.9	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°	23.1	23.1	23.1	23.1	23.1	23.1
2.5°	24.3	23.5	22.3	21.9	21.5	21.5
5°	23.9	22.3	21.1	19.9	19.5	19.5
7.5°	22.7	20.7	19.1	18.3	17.9	17.5
10°	21.5	18.7	17.1	16.3	16.3	16.3
12.5°	19.1	16.7	15.1	14.7	15.1	15.1
15°	17.1	14.3	13.5	13.5	13.9	14.3
17.5°	14.7	12.7	11.9	12.3	12.7	13.1
20°	13.1	10.7	10.7	11.1	12.3	12.3
22.5°	11.5	9.5	9.5	10.7	11.5	11.9
25°	10.3	8.4	8.8	9.9	11.1	11.5
27.5°	8.8	7.2	8.0	9.5	10.7	11.1
30°	7.6	6.4	7.6	9.1	10.3	11.1
31°	7.2	6.0	7.6	8.8	10.3	11.1
32°	6.4	6.0	7.2	8.8	10.3	10.7
33°	6.0	5.6	7.2	8.8	10.3	10.7
34°	5.6	5.2	6.8	8.8	10.3	10.7
35°	4.8	5.2	6.8	8.4	9.9	10.7
36°	4.4	4.8	6.8	8.4	9.9	10.7
37°	4.0	4.8	6.4	8.4	9.9	10.7
38°	3.6	4.4	6.4	8.4	9.9	10.7
39°	3.2	4.4	6.0	8.4	9.9	10.7
40°	2.8	4.0	6.0	8.0	9.9	10.7
41°	2.8	4.0	6.0	8.0	9.9	10.7
42°	2.4	4.0	6.0	8.0	9.9	10.7
43°	2.0	3.6	6.0	8.0	9.9	10.7
44°	1.6	3.6	5.6	8.0	9.9	10.7
45°	1.6	3.6	5.6	8.0	9.9	10.7
46°	1.2	3.2	5.6	8.0	9.9	10.7
47°	0.8	3.2	5.6	7.6	9.9	10.7
48°	0.8	3.2	5.6	7.6	9.9	10.7
49°	0.8	3.2	5.2	7.6	9.9	10.7
50°	0.8	3.2	5.2	7.6	9.9	10.7
51°	0.4	2.8	5.2	7.6	9.9	10.7
52°	0.4	2.8	5.2	7.6	9.9	11.1
53°	0.4	2.8	5.2	7.6	9.9	10.7
54°	0.4	2.8	4.8	7.6	9.9	10.7
55°	0.4	2.8	4.8	7.6	9.9	10.7
56°	0.4	2.4	4.8	7.2	9.9	10.7
57°	0.8	2.4	4.8	7.2	9.9	10.3
58°	0.8	2.4	4.8	7.2	9.5	10.3
59°	0.8	2.4	4.8	7.2	9.5	10.3
60°	0.8	2.4	4.4	7.2	9.5	10.3
62.5°	0.8	2.4	4.4	6.8	9.1	9.9
65°	0.8	2.4	4.0	6.4	9.1	9.5



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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	9.1
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)