

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: P1337606

Luminaire Tested: P3A05R25B2750DE010 E3CA451MW_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337606
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 E3CA451MW_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 5000K CCT AND, 80CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

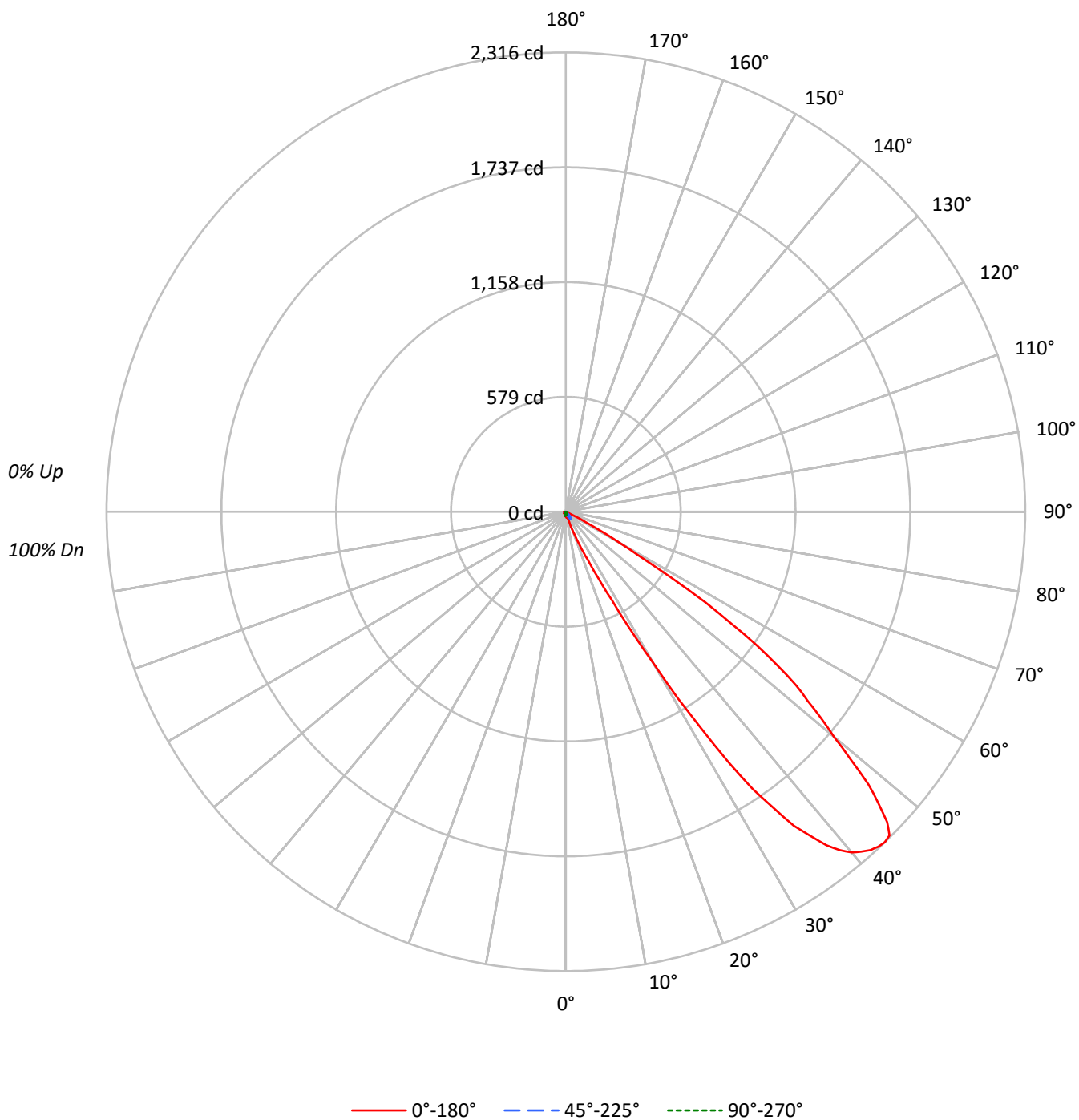
Lumens per Lamp: N/A
Luminaire Lumens: 483.1 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			
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°	5416	5416	5416	5416	5416
5°	6185	5899	5239	4689	4578
10°	6146	5589	4453	3874	3874
15°	6856	4835	3473	3292	3473
20°	24199	4760	2684	2777	3080
25°	69609	6073	2153	2565	2976
30°	222135	9369	1722	2481	3013
35°	486504	11029	1472	2382	3078
40°	641774	9990	1231	2433	3292
45°	715702	6977	1178	2636	3566
50°	602454	3616	1160	2763	3923
55°	450431	1453	1147	3097	4396
60°	139419	395	1140	3377	4868
65°	11934	0	1349	3528	5292
70°	833	256	1346	4103	6027
75°	763	339	1779	4321	6863
80°	505	505	2652	4799	8082
85°	1006	1006	4277	5284	8554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 715702 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.5
10°-20°	5.7	1.2
20°-30°	26.7	5.5
30°-40°	128.7	26.6
40°-50°	201.7	41.7
50°-60°	103.4	21.4
60°-70°	9.8	2.0
70°-80°	3.3	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°	34.6	7.2
0°-40°	163.3	33.8
0°-60°	468.4	97.0
0°-90°	483.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	483.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	28	27	24	21	21	3
15°	30	21	15	14	15	13
25°	288	25	9	11	12	178
35°	1817	41	6	9	12	1103
45°	2308	22	4	8	12	1689
55°	1178	4	3	8	12	981
65°	23	0	3	7	10	72
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°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	26.8	26.8	26.8	26.8	26.8	26.8	26.4	26.4	26.8	26.4	26.4
5°	28.1	28.1	28.1	28.1	28.1	28.1	28.1	27.6	27.6	27.6	26.8
7.5°	28.5	28.1	28.1	28.1	28.1	28.1	28.1	28.1	27.6	27.6	26.4
10°	27.6	27.6	27.6	27.6	27.2	27.2	27.2	26.8	26.8	26.8	25.1
12.5°	27.6	27.6	27.6	27.6	27.2	27.2	26.8	26.8	26.4	25.9	23.0
15°	30.2	30.2	30.2	29.8	29.3	28.9	28.5	28.1	27.6	26.8	21.3
17.5°	44.2	42.9	42.5	40.8	38.7	36.6	34.9	33.2	31.5	30.2	20.4
20°	103.7	103.3	101.2	96.1	90.5	84.2	77.8	70.6	60.4	53.6	20.4
22.5°	179.8	177.2	173.4	169.6	159.8	148.3	136.4	122.8	109.7	95.6	21.7
25°	287.7	293.7	280.9	270.7	253.7	232.9	210.4	191.7	167.9	145.8	25.1
27.5°	500.3	504.1	479.0	445.9	406.3	362.5	320.0	288.2	248.2	211.7	31.5
30°	877.3	881.1	839.0	768.5	686.8	615.0	517.7	432.3	353.6	292.8	37.0
31°	1094.9	1065.1	1016.2	947.8	844.5	736.1	619.3	516.0	416.5	336.6	38.7
32°	1284.0	1281.5	1224.5	1120.8	1017.1	883.2	738.3	603.5	481.6	380.8	40.0
33°	1507.2	1490.2	1409.8	1312.1	1174.8	1040.0	853.0	699.2	548.3	430.1	40.8
34°	1686.1	1640.2	1607.0	1495.3	1350.3	1178.6	978.4	800.3	631.6	477.7	41.2
35°	1817.4	1807.6	1743.0	1638.9	1491.4	1315.9	1113.6	905.3	701.3	533.0	41.2
36°	1956.4	1926.2	1863.3	1769.0	1625.3	1443.8	1216.9	996.3	782.5	582.7	40.8
37°	2043.5	2025.7	1963.2	1865.9	1725.2	1551.8	1332.5	1092.3	847.1	632.4	40.0
38°	2133.2	2097.1	2035.5	1942.4	1804.2	1641.5	1416.2	1166.3	906.6	676.2	38.7
39°	2195.3	2157.9	2095.0	2002.3	1867.2	1705.6	1482.5	1229.2	958.4	708.9	37.0
40°	2242.0	2205.9	2142.1	2046.9	1913.5	1756.2	1537.8	1284.9	1001.8	737.4	34.9
41°	2270.9	2237.4	2174.0	2079.2	1945.4	1785.1	1573.9	1321.0	1031.1	756.6	32.7
42°	2295.2	2260.7	2196.1	2099.2	1964.9	1809.8	1596.0	1343.9	1051.1	766.3	31.0
43°	2308.8	2274.3	2211.4	2112.4	1976.8	1821.2	1607.9	1354.6	1057.9	765.1	28.1
44°	2316.4	2280.7	2217.4	2118.3	1981.9	1824.2	1608.7	1352.4	1053.2	754.9	25.5
45°	2307.9	2272.6	2211.4	2112.4	1973.0	1814.9	1600.2	1341.0	1035.4	734.9	22.5
46°	2252.7	2225.4	2169.3	2078.4	1944.9	1791.1	1578.6	1318.9	1007.7	710.2	19.1
47°	2155.3	2133.6	2079.2	2011.7	1891.0	1747.3	1538.6	1276.8	969.1	673.2	15.3
48°	2053.7	2021.9	1971.3	1902.0	1800.0	1668.7	1472.7	1215.2	910.4	624.8	13.6
49°	1903.7	1885.0	1840.4	1763.0	1678.4	1562.8	1379.6	1136.1	838.6	572.1	11.9
50°	1766.0	1753.2	1690.8	1633.8	1544.1	1436.2	1253.4	1032.0	749.3	506.6	10.6
51°	1658.5	1643.2	1598.1	1527.1	1431.5	1306.1	1134.0	896.8	646.9	428.9	8.5
52°	1546.3	1537.8	1497.8	1424.7	1330.8	1205.8	1017.9	782.1	547.4	362.5	6.8
53°	1454.4	1442.1	1393.2	1328.2	1226.6	1097.4	892.1	675.4	463.7	304.7	6.0
54°	1320.6	1315.5	1284.0	1216.0	1105.9	965.2	778.2	568.7	386.8	258.4	5.1
55°	1178.2	1161.2	1129.3	1075.3	974.2	842.8	646.5	471.4	312.8	217.6	3.8
56°	1004.8	1003.9	947.0	901.9	812.2	672.8	516.4	368.1	254.2	181.5	3.4
57°	839.0	812.2	757.4	712.8	616.3	510.5	383.4	275.8	198.9	147.1	2.6
58°	620.5	606.5	592.1	526.6	437.4	361.7	273.7	193.8	147.1	112.2	1.7
59°	421.2	420.8	403.8	354.0	302.6	225.3	170.9	131.8	101.2	82.5	1.3
60°	317.9	310.3	276.3	243.5	190.4	142.4	101.2	77.8	62.9	53.1	0.9
62.5°	111.4	115.6	101.6	84.2	64.2	52.7	40.4	32.7	26.8	21.7	0.0
65°	23.0	25.1	21.7	20.4	16.2	14.0	12.3	10.6	8.9	7.7	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°	3.0	2.6	2.6	2.6	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	0.9	0.9	0.9	0.9	0.4
72.5°	1.3	1.3	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.4
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	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	0.9
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°	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	25.9	25.1	23.8	23.4	23.0	23.0
5°	25.5	23.8	22.5	21.3	20.8	20.8
7.5°	24.2	22.1	20.4	19.6	19.1	18.7
10°	23.0	20.0	18.3	17.4	17.4	17.4
12.5°	20.4	17.9	16.2	15.7	16.2	16.2
15°	18.3	15.3	14.5	14.5	14.9	15.3
17.5°	15.7	13.6	12.8	13.2	13.6	14.0
20°	14.0	11.5	11.5	11.9	13.2	13.2
22.5°	12.3	10.2	10.2	11.5	12.3	12.8
25°	11.1	8.9	9.4	10.6	11.9	12.3
27.5°	9.4	7.7	8.5	10.2	11.5	11.9
30°	8.1	6.8	8.1	9.8	11.1	11.9
31°	7.7	6.4	8.1	9.4	11.1	11.9
32°	6.8	6.4	7.7	9.4	11.1	11.5
33°	6.4	6.0	7.7	9.4	11.1	11.5
34°	6.0	5.5	7.2	9.4	11.1	11.5
35°	5.1	5.5	7.2	8.9	10.6	11.5
36°	4.7	5.1	7.2	8.9	10.6	11.5
37°	4.3	5.1	6.8	8.9	10.6	11.5
38°	3.8	4.7	6.8	8.9	10.6	11.5
39°	3.4	4.7	6.4	8.9	10.6	11.5
40°	3.0	4.3	6.4	8.5	10.6	11.5
41°	3.0	4.3	6.4	8.5	10.6	11.5
42°	2.6	4.3	6.4	8.5	10.6	11.5
43°	2.1	3.8	6.4	8.5	10.6	11.5
44°	1.7	3.8	6.0	8.5	10.6	11.5
45°	1.7	3.8	6.0	8.5	10.6	11.5
46°	1.3	3.4	6.0	8.5	10.6	11.5
47°	0.9	3.4	6.0	8.1	10.6	11.5
48°	0.9	3.4	6.0	8.1	10.6	11.5
49°	0.9	3.4	5.5	8.1	10.6	11.5
50°	0.9	3.4	5.5	8.1	10.6	11.5
51°	0.4	3.0	5.5	8.1	10.6	11.5
52°	0.4	3.0	5.5	8.1	10.6	11.9
53°	0.4	3.0	5.5	8.1	10.6	11.5
54°	0.4	3.0	5.1	8.1	10.6	11.5
55°	0.4	3.0	5.1	8.1	10.6	11.5
56°	0.4	2.6	5.1	7.7	10.6	11.5
57°	0.9	2.6	5.1	7.7	10.6	11.1
58°	0.9	2.6	5.1	7.7	10.2	11.1
59°	0.9	2.6	5.1	7.7	10.2	11.1
60°	0.9	2.6	4.7	7.7	10.2	11.1
62.5°	0.9	2.6	4.7	7.2	9.8	10.6
65°	0.9	2.6	4.3	6.8	9.8	10.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.9	2.1	4.3	6.4	9.4	9.8
70°	1.3	2.1	3.8	6.4	8.9	9.4
72.5°	1.3	2.1	3.8	5.5	8.1	8.9
75°	1.3	2.1	3.4	5.1	7.7	8.1
77.5°	1.3	2.1	3.0	4.7	6.8	7.2
80°	1.7	2.1	2.6	3.8	6.0	6.4
82.5°	1.7	2.1	2.1	3.0	4.7	5.1
85°	1.3	1.7	1.7	2.1	3.0	3.4
87.5°	1.3	1.7	1.3	0.9	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)