

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: P1337598

Luminaire Tested: P3A05R25B2750DE010 E3CA451MMS_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337598
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 E3CA451MMS_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

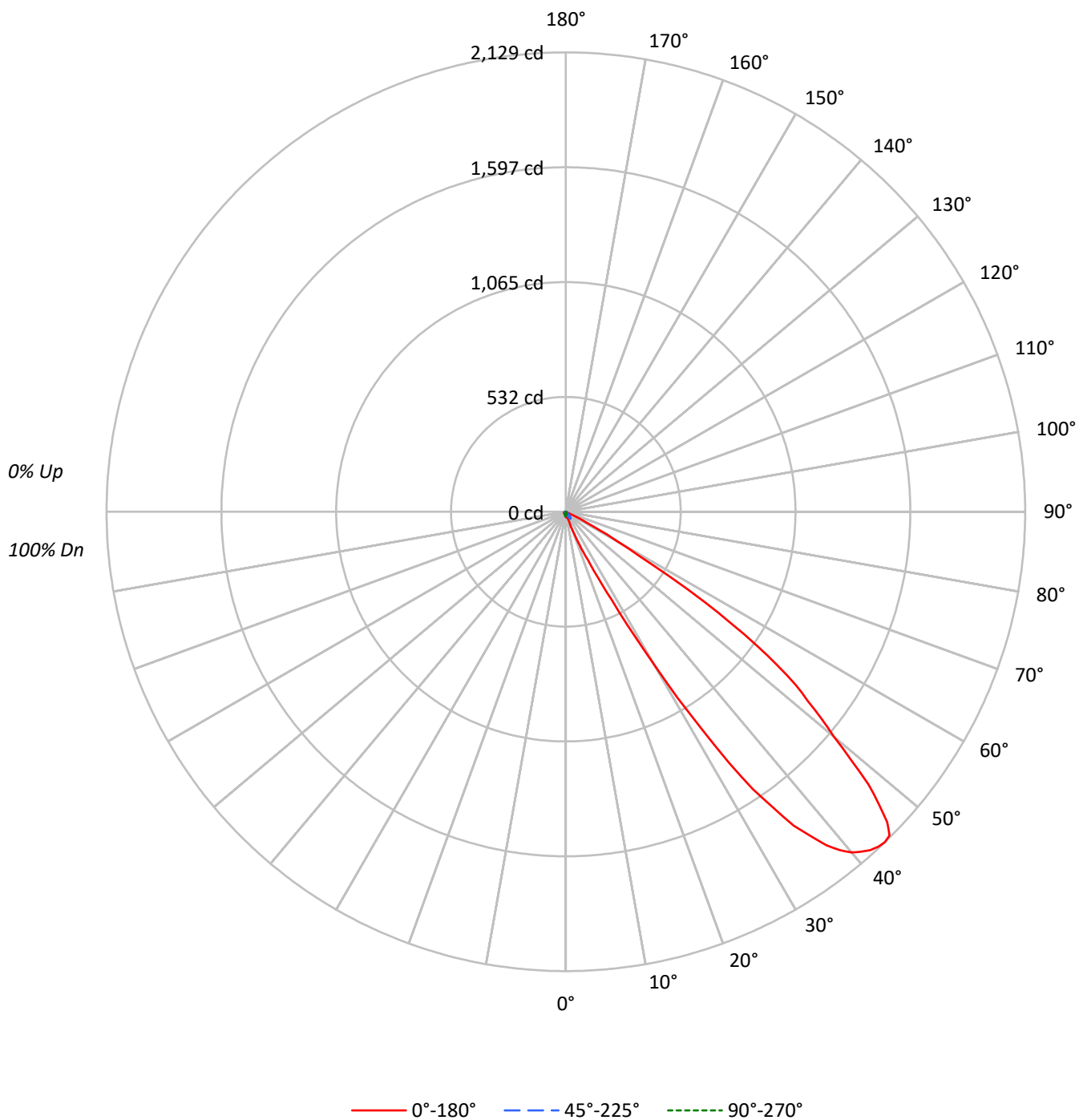
Lumens per Lamp: N/A
Luminaire Lumens: 444.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	4978	4978	4978	4978	4978
5°	5679	5415	4821	4292	4204
10°	5656	5144	4097	3563	3563
15°	6288	4427	3201	3019	3201
20°	22239	4387	2450	2544	2824
25°	63996	5589	1984	2371	2734
30°	204183	8609	1595	2279	2760
35°	447233	10146	1365	2195	2811
40°	589962	9160	1116	2233	3006
45°	657929	6419	1085	2419	3256
50°	553807	3343	1058	2524	3582
55°	414035	1338	1032	2829	4014
60°	128191	351	1009	3070	4473
65°	10948	0	1193	3269	4877
70°	769	256	1282	3783	5514
75°	678	339	1694	3982	6270
80°	505	505	2526	4420	7450
85°	1006	1006	4026	5032	7799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 657929 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	5.2	1.2
20°-30°	24.6	5.5
30°-40°	118.3	26.6
40°-50°	185.4	41.7
50°-60°	95.0	21.4
60°-70°	9.0	2.0
70°-80°	3.0	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°	31.8	7.2
0°-40°	150.1	33.8
0°-60°	430.5	97.0
0°-90°	444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	444.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	26	25	22	20	19	2
15°	28	20	14	13	14	12
25°	264	23	8	10	11	164
35°	1671	38	5	8	10	1014
45°	2122	21	4	8	10	1552
55°	1083	4	3	7	10	902
65°	21	0	2	6	9	66
75°	1	0	2	5	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°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
2.5°	24.6	24.6	24.6	24.6	24.6	24.6	24.2	24.2	24.6	24.2	24.2
5°	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.4	25.4	25.4	24.6
7.5°	26.2	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.4	25.4	24.2
10°	25.4	25.4	25.4	25.4	25.0	25.0	25.0	24.6	24.6	24.6	23.1
12.5°	25.4	25.4	25.4	25.4	25.0	25.0	24.6	24.6	24.2	23.8	21.1
15°	27.7	27.7	27.7	27.3	27.0	26.6	26.2	25.8	25.4	24.6	19.5
17.5°	40.6	39.5	39.1	37.5	35.6	33.6	32.0	30.5	28.9	27.7	18.8
20°	95.3	94.9	93.0	88.3	83.2	77.4	71.5	64.9	55.5	49.2	18.8
22.5°	165.3	162.9	159.4	155.9	146.9	136.4	125.4	112.9	100.8	87.9	19.9
25°	264.5	270.0	258.3	248.9	233.3	214.1	193.4	176.2	154.3	134.0	23.1
27.5°	459.9	463.4	440.3	409.9	373.5	333.3	294.2	264.9	228.2	194.6	28.9
30°	806.4	809.9	771.3	706.4	631.4	565.4	475.9	397.4	325.1	269.2	34.0
31°	1006.5	979.1	934.2	871.3	776.3	676.7	569.3	474.3	382.9	309.4	35.6
32°	1180.3	1178.0	1125.6	1030.3	935.0	811.9	678.7	554.8	442.7	350.1	36.7
33°	1385.5	1369.8	1296.0	1206.1	1079.9	956.1	784.2	642.7	504.0	395.4	37.5
34°	1549.9	1507.7	1477.3	1374.5	1241.3	1083.4	899.4	735.7	580.6	439.2	37.9
35°	1670.7	1661.7	1602.3	1506.6	1371.0	1209.6	1023.7	832.2	644.7	489.9	37.9
36°	1798.4	1770.7	1712.9	1626.1	1494.1	1327.2	1118.6	915.8	719.3	535.7	37.5
37°	1878.5	1862.1	1804.7	1715.2	1585.9	1426.5	1224.9	1004.1	778.7	581.4	36.7
38°	1961.0	1927.8	1871.1	1785.5	1658.6	1508.9	1301.8	1072.1	833.4	621.6	35.6
39°	2018.0	1983.6	1925.8	1840.6	1716.4	1567.9	1362.8	1129.9	881.1	651.7	34.0
40°	2061.0	2027.8	1969.2	1881.7	1759.0	1614.4	1413.6	1181.1	920.9	677.9	32.0
41°	2087.6	2056.7	1998.5	1911.4	1788.3	1641.0	1446.8	1214.3	947.9	695.5	30.1
42°	2109.8	2078.2	2018.8	1929.7	1806.3	1663.6	1467.1	1235.4	966.2	704.4	28.5
43°	2122.3	2090.7	2032.9	1941.8	1817.2	1674.2	1478.1	1245.2	972.5	703.3	25.8
44°	2129.4	2096.5	2038.3	1947.3	1821.9	1676.9	1478.8	1243.2	968.2	693.9	23.4
45°	2121.6	2089.1	2032.9	1941.8	1813.7	1668.3	1471.0	1232.7	951.8	675.5	20.7
46°	2070.8	2045.8	1994.2	1910.6	1787.9	1646.5	1451.1	1212.4	926.4	652.9	17.6
47°	1981.3	1961.4	1911.4	1849.2	1738.3	1606.2	1414.4	1173.7	890.8	618.9	14.1
48°	1887.9	1858.6	1812.1	1748.4	1654.7	1533.9	1353.8	1117.0	836.9	574.3	12.5
49°	1750.0	1732.8	1691.8	1620.7	1542.9	1436.6	1268.2	1044.4	770.9	525.9	10.9
50°	1623.4	1611.7	1554.2	1501.9	1419.4	1320.2	1152.2	948.6	688.8	465.7	9.8
51°	1524.5	1510.5	1469.1	1403.8	1315.9	1200.7	1042.4	824.4	594.7	394.2	7.8
52°	1421.4	1413.6	1376.9	1309.7	1223.3	1108.4	935.7	718.9	503.2	333.3	6.3
53°	1337.0	1325.7	1280.7	1221.0	1127.6	1008.8	820.1	620.8	426.3	280.1	5.5
54°	1213.9	1209.2	1180.3	1117.8	1016.6	887.3	715.4	522.8	355.5	237.6	4.7
55°	1083.0	1067.4	1038.1	988.5	895.5	774.8	594.3	433.3	287.6	200.0	3.5
56°	923.6	922.9	870.5	829.1	746.6	618.5	474.7	338.4	233.6	166.8	3.1
57°	771.3	746.6	696.2	655.2	566.5	469.2	352.4	253.6	182.9	135.2	2.3
58°	570.4	557.5	544.3	484.1	402.0	332.5	251.6	178.2	135.2	103.1	1.6
59°	387.2	386.8	371.2	325.5	278.2	207.1	157.1	121.1	93.0	75.8	1.2
60°	292.3	285.2	254.0	223.9	175.0	130.9	93.0	71.5	57.8	48.8	0.8
62.5°	102.4	106.3	93.4	77.4	59.0	48.4	37.1	30.1	24.6	19.9	0.0
65°	21.1	23.1	19.9	18.8	14.8	12.9	11.3	9.8	8.2	7.0	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°	2.7	2.3	2.3	2.3	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°	22.7	22.7	22.7	22.7	22.7	22.7
2.5°	23.8	23.1	21.9	21.5	21.1	21.1
5°	23.4	21.9	20.7	19.5	19.1	19.1
7.5°	22.3	20.3	18.8	18.0	17.6	17.2
10°	21.1	18.4	16.8	16.0	16.0	16.0
12.5°	18.8	16.4	14.8	14.5	14.8	14.8
15°	16.8	14.1	13.3	13.3	13.7	14.1
17.5°	14.5	12.5	11.7	12.1	12.5	12.9
20°	12.9	10.5	10.5	10.9	12.1	12.1
22.5°	11.3	9.4	9.4	10.5	11.3	11.7
25°	10.2	8.2	8.6	9.8	10.9	11.3
27.5°	8.6	7.0	7.8	9.4	10.5	10.9
30°	7.4	6.3	7.4	9.0	10.2	10.9
31°	7.0	5.9	7.4	8.6	10.2	10.9
32°	6.3	5.9	7.0	8.6	10.2	10.5
33°	5.9	5.5	7.0	8.6	10.2	10.5
34°	5.5	5.1	6.6	8.6	10.2	10.5
35°	4.7	5.1	6.6	8.2	9.8	10.5
36°	4.3	4.7	6.6	8.2	9.8	10.5
37°	3.9	4.7	6.3	8.2	9.8	10.5
38°	3.5	4.3	6.3	8.2	9.8	10.5
39°	3.1	4.3	5.9	8.2	9.8	10.5
40°	2.7	3.9	5.9	7.8	9.8	10.5
41°	2.7	3.9	5.9	7.8	9.8	10.5
42°	2.3	3.9	5.9	7.8	9.8	10.5
43°	2.0	3.5	5.9	7.8	9.8	10.5
44°	1.6	3.5	5.5	7.8	9.8	10.5
45°	1.6	3.5	5.5	7.8	9.8	10.5
46°	1.2	3.1	5.5	7.8	9.8	10.5
47°	0.8	3.1	5.5	7.4	9.8	10.5
48°	0.8	3.1	5.5	7.4	9.8	10.5
49°	0.8	3.1	5.1	7.4	9.8	10.5
50°	0.8	3.1	5.1	7.4	9.8	10.5
51°	0.4	2.7	5.1	7.4	9.8	10.5
52°	0.4	2.7	5.1	7.4	9.8	10.9
53°	0.4	2.7	5.1	7.4	9.8	10.5
54°	0.4	2.7	4.7	7.4	9.8	10.5
55°	0.4	2.7	4.7	7.4	9.8	10.5
56°	0.4	2.3	4.7	7.0	9.8	10.5
57°	0.8	2.3	4.7	7.0	9.8	10.2
58°	0.8	2.3	4.7	7.0	9.4	10.2
59°	0.8	2.3	4.7	7.0	9.4	10.2
60°	0.8	2.3	4.3	7.0	9.4	10.2
62.5°	0.8	2.3	4.3	6.6	9.0	9.8
65°	0.8	2.3	3.9	6.3	9.0	9.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.0	3.9	5.9	8.6	9.0
70°	1.2	2.0	3.5	5.9	8.2	8.6
72.5°	1.2	2.0	3.5	5.1	7.4	8.2
75°	1.2	2.0	3.1	4.7	7.0	7.4
77.5°	1.2	2.0	2.7	4.3	6.3	6.6
80°	1.6	2.0	2.3	3.5	5.5	5.9
82.5°	1.6	2.0	2.0	2.7	4.3	4.7
85°	1.2	1.6	1.6	2.0	2.7	3.1
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)