

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: P1337599

Luminaire Tested: P3A05R25B2750DE010 E3CA451MMS_3500K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337599
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_3500K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 3500K CCT AND, 80CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

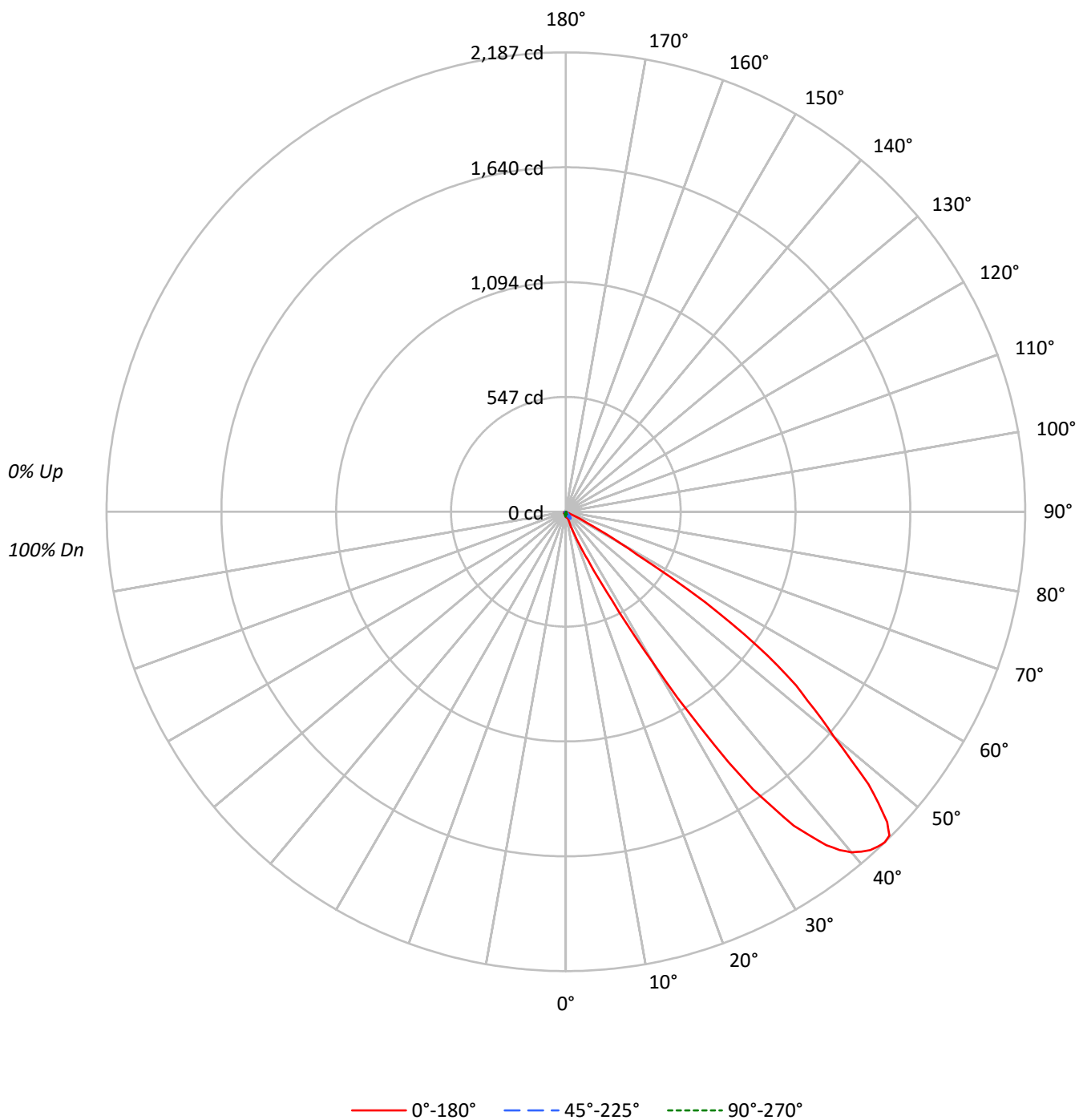
Lumens per Lamp: N/A
Luminaire Lumens: 455.9 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1337599

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MMS_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1337599

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MMS_3500K

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°	5109	5109	5109	5109	5109
5°	5833	5569	4953	4424	4336
10°	5812	5277	4208	3674	3674
15°	6470	4563	3269	3087	3269
20°	22845	4504	2520	2614	2894
25°	65738	5734	2032	2419	2807
30°	209703	8837	1621	2329	2836
35°	459306	10413	1392	2249	2891
40°	605907	9418	1145	2290	3092
45°	675698	6605	1116	2481	3349
50°	568783	3411	1092	2593	3684
55°	425237	1376	1070	2906	4129
60°	131612	351	1053	3158	4561
65°	11259	0	1245	3321	4981
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: 675698 cd/sqm

TEST NUMBER: P1337599

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MMS_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	5.4	1.2
20°-30°	25.2	5.5
30°-40°	121.5	26.6
40°-50°	190.4	41.8
50°-60°	97.6	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°	32.7	7.2
0°-40°	154.1	33.8
0°-60°	442.1	97.0
0°-90°	455.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	455.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	26	25	22	20	20	3
15°	28	20	14	14	14	12
25°	272	24	8	10	12	169
35°	1716	39	5	8	11	1042
45°	2179	21	4	8	11	1594
55°	1112	4	3	8	11	926
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	

TEST NUMBER: P1337599

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MMS_3500K

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°	28.5	28.5	28.5	28.1	27.7	27.3	26.9	26.5	26.1	25.3	20.1
17.5°	41.7	40.5	40.1	38.5	36.5	34.5	32.9	31.3	29.7	28.5	19.3
20°	97.9	97.5	95.5	90.7	85.5	79.5	73.4	66.6	57.0	50.6	19.3
22.5°	169.7	167.3	163.7	160.1	150.9	140.0	128.8	116.0	103.5	90.3	20.5
25°	271.7	277.3	265.2	255.6	239.6	219.9	198.6	181.0	158.5	137.6	23.7
27.5°	472.3	475.9	452.2	420.9	383.6	342.3	302.2	272.1	234.3	199.8	29.7
30°	828.2	831.8	792.1	725.5	648.5	580.6	488.7	408.1	333.9	276.5	34.9
31°	1033.7	1005.6	959.4	894.8	797.3	695.0	584.6	487.1	393.2	317.8	36.5
32°	1212.2	1209.8	1156.1	1058.1	960.2	833.8	697.0	569.8	454.6	359.5	37.7
33°	1422.9	1406.9	1331.0	1238.7	1109.1	981.9	805.3	660.1	517.6	406.1	38.5
34°	1591.8	1548.5	1517.2	1411.7	1274.8	1112.7	923.7	755.6	596.3	451.0	38.9
35°	1715.8	1706.6	1645.6	1547.3	1408.1	1242.3	1051.3	854.7	662.1	503.2	38.9
36°	1847.0	1818.6	1759.2	1670.1	1534.5	1363.1	1148.8	940.6	738.7	550.1	38.5
37°	1929.3	1912.4	1853.5	1761.6	1628.8	1465.0	1258.0	1031.3	799.7	597.1	37.7
38°	2014.0	1979.9	1921.7	1833.8	1703.4	1549.7	1337.0	1101.1	855.9	638.4	36.5
39°	2072.6	2037.2	1977.9	1890.4	1762.8	1610.3	1399.6	1160.5	904.9	669.3	34.9
40°	2116.7	2082.6	2022.4	1932.5	1806.5	1658.0	1451.8	1213.0	945.8	696.2	32.9
41°	2144.0	2112.3	2052.5	1963.0	1836.6	1685.3	1485.9	1247.1	973.5	714.3	30.9
42°	2166.9	2134.4	2073.4	1981.9	1855.1	1708.6	1506.8	1268.8	992.3	723.5	29.3
43°	2179.7	2147.2	2087.8	1994.3	1866.3	1719.4	1518.0	1278.8	998.8	722.3	26.5
44°	2186.9	2153.2	2093.4	1999.9	1871.1	1722.2	1518.8	1276.8	994.3	712.7	24.1
45°	2178.9	2145.6	2087.8	1994.3	1862.7	1713.4	1510.8	1266.0	977.5	693.8	21.3
46°	2126.7	2101.0	2048.1	1962.2	1836.2	1690.9	1490.3	1245.1	951.4	670.5	18.1
47°	2034.8	2014.4	1963.0	1899.2	1785.2	1649.6	1452.6	1205.4	914.9	635.6	14.4
48°	1938.9	1908.8	1861.1	1795.7	1699.4	1575.4	1390.4	1147.2	859.5	589.9	12.8
49°	1797.3	1779.6	1737.5	1664.5	1584.6	1475.5	1302.5	1072.6	791.7	540.1	11.2
50°	1667.3	1655.2	1596.2	1542.5	1457.8	1355.9	1183.3	974.3	707.4	478.3	10.0
51°	1565.8	1551.3	1508.8	1441.8	1351.5	1233.1	1070.6	846.7	610.7	404.9	8.0
52°	1459.8	1451.8	1414.1	1345.1	1256.4	1138.4	961.0	738.3	516.8	342.3	6.4
53°	1373.1	1361.5	1315.4	1254.0	1158.1	1036.1	842.3	637.6	437.8	287.7	5.6
54°	1246.7	1241.9	1212.2	1148.0	1044.1	911.3	734.7	536.9	365.2	244.0	4.8
55°	1112.3	1096.3	1066.2	1015.2	919.7	795.7	610.3	445.0	295.3	205.4	3.6
56°	948.6	947.8	894.0	851.5	766.8	635.2	487.5	347.5	240.0	171.3	3.2
57°	792.1	766.8	715.1	672.9	581.8	481.9	361.9	260.4	187.8	138.8	2.4
58°	585.9	572.6	559.0	497.2	412.9	341.5	258.4	183.0	138.8	105.9	1.6
59°	397.7	397.3	381.2	334.3	285.7	212.7	161.3	124.4	95.5	77.8	1.2
60°	300.1	292.9	260.8	229.9	179.8	134.4	95.5	73.4	59.4	50.2	0.8
62.5°	105.1	109.1	95.9	79.5	60.6	49.8	38.1	30.9	25.3	20.5	0.0
65°	21.7	23.7	20.5	19.3	15.2	13.2	11.6	10.0	8.4	7.2	0.0



TEST NUMBER: P1337599

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MMS_3500K

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

TEST NUMBER: P1337599

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MMS_3500K

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	15.2	14.8	15.2	15.2
15°	17.3	14.4	13.6	13.6	14.0	14.4
17.5°	14.8	12.8	12.0	12.4	12.8	13.2
20°	13.2	10.8	10.8	11.2	12.4	12.4
22.5°	11.6	9.6	9.6	10.8	11.6	12.0
25°	10.4	8.4	8.8	10.0	11.2	11.6
27.5°	8.8	7.2	8.0	9.6	10.8	11.2
30°	7.6	6.4	7.6	9.2	10.4	11.2
31°	7.2	6.0	7.6	8.8	10.4	11.2
32°	6.4	6.0	7.2	8.8	10.4	10.8
33°	6.0	5.6	7.2	8.8	10.4	10.8
34°	5.6	5.2	6.8	8.8	10.4	10.8
35°	4.8	5.2	6.8	8.4	10.0	10.8
36°	4.4	4.8	6.8	8.4	10.0	10.8
37°	4.0	4.8	6.4	8.4	10.0	10.8
38°	3.6	4.4	6.4	8.4	10.0	10.8
39°	3.2	4.4	6.0	8.4	10.0	10.8
40°	2.8	4.0	6.0	8.0	10.0	10.8
41°	2.8	4.0	6.0	8.0	10.0	10.8
42°	2.4	4.0	6.0	8.0	10.0	10.8
43°	2.0	3.6	6.0	8.0	10.0	10.8
44°	1.6	3.6	5.6	8.0	10.0	10.8
45°	1.6	3.6	5.6	8.0	10.0	10.8
46°	1.2	3.2	5.6	8.0	10.0	10.8
47°	0.8	3.2	5.6	7.6	10.0	10.8
48°	0.8	3.2	5.6	7.6	10.0	10.8
49°	0.8	3.2	5.2	7.6	10.0	10.8
50°	0.8	3.2	5.2	7.6	10.0	10.8
51°	0.4	2.8	5.2	7.6	10.0	10.8
52°	0.4	2.8	5.2	7.6	10.0	11.2
53°	0.4	2.8	5.2	7.6	10.0	10.8
54°	0.4	2.8	4.8	7.6	10.0	10.8
55°	0.4	2.8	4.8	7.6	10.0	10.8
56°	0.4	2.4	4.8	7.2	10.0	10.8
57°	0.8	2.4	4.8	7.2	10.0	10.4
58°	0.8	2.4	4.8	7.2	9.6	10.4
59°	0.8	2.4	4.8	7.2	9.6	10.4
60°	0.8	2.4	4.4	7.2	9.6	10.4
62.5°	0.8	2.4	4.4	6.8	9.2	10.0
65°	0.8	2.4	4.0	6.4	9.2	9.6



TEST NUMBER: P1337599

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MMS_3500K

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)