

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: P1337602

Luminaire Tested: P3A05R25B2750DE010 E3CA451MW_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337602
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_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 2700K CCT AND, 90CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

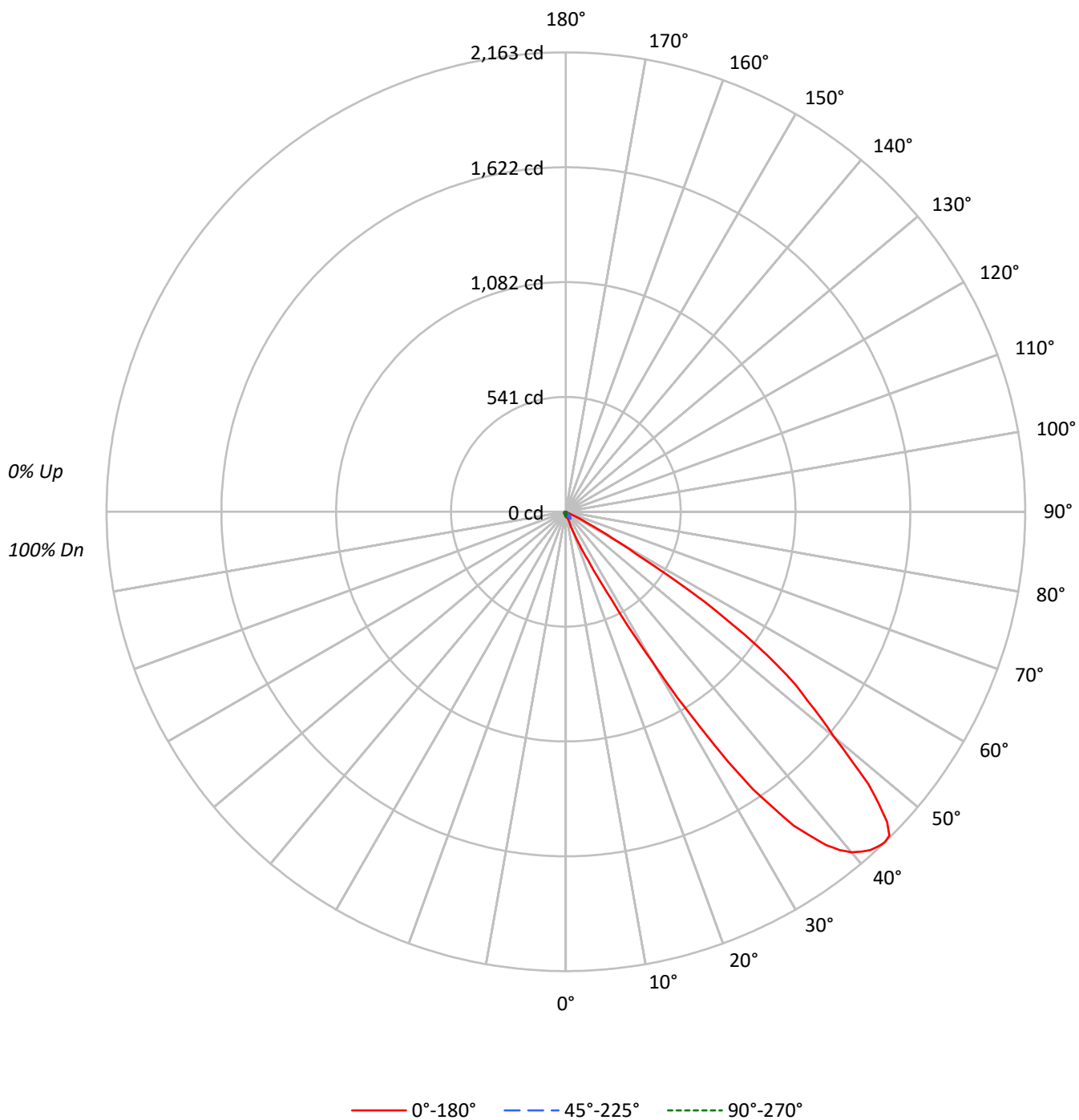
Lumens per Lamp: N/A
Luminaire Lumens: 451.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1337602

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MW_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1337602

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MW_2700K

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°	5043	5043	5043	5043	5043
5°	5767	5503	4887	4358	4270
10°	5745	5210	4164	3629	3629
15°	6402	4495	3246	3065	3246
20°	22589	4434	2497	2590	2870
25°	65012	5662	2008	2395	2782
30°	207399	8736	1595	2304	2811
35°	454274	10306	1392	2222	2864
40°	599266	9303	1145	2261	3063
45°	668286	6512	1116	2450	3318
50°	562540	3377	1092	2559	3650
55°	420573	1376	1070	2867	4091
60°	130209	351	1053	3114	4517
65°	11104	0	1245	3269	4929
70°	769	256	1282	3847	5578
75°	678	339	1694	4067	6354
80°	505	505	2526	4546	7577
85°	1006	1006	4026	5032	8051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 668286 cd/sqm

TEST NUMBER: P1337602

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MW_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	5.3	1.2
20°-30°	24.9	5.5
30°-40°	120.1	26.6
40°-50°	188.3	41.8
50°-60°	96.5	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°	32.3	7.2
0°-40°	152.4	33.8
0°-60°	437.3	97.0
0°-90°	451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	451.0	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	14	14	12
25°	269	23	8	10	12	167
35°	1697	38	5	8	11	1030
45°	2155	21	4	8	11	1577
55°	1100	4	3	8	11	916
65°	21	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	

TEST NUMBER: P1337602

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MW_2700K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
2.5°	25.0	25.0	25.0	25.0	25.0	25.0	24.6	24.6	25.0	24.6	24.6
5°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	25.8	25.8	25.8	25.0
7.5°	26.6	26.2	26.2	26.2	26.2	26.2	26.2	26.2	25.8	25.8	24.6
10°	25.8	25.8	25.8	25.8	25.4	25.4	25.4	25.0	25.0	25.0	23.4
12.5°	25.8	25.8	25.8	25.8	25.4	25.4	25.0	25.0	24.6	24.2	21.4
15°	28.2	28.2	28.2	27.8	27.4	27.0	26.6	26.2	25.8	25.0	19.8
17.5°	41.3	40.1	39.7	38.1	36.1	34.1	32.5	31.0	29.4	28.2	19.0
20°	96.8	96.4	94.5	89.7	84.5	78.6	72.6	65.9	56.4	50.0	19.0
22.5°	167.9	165.5	161.9	158.4	149.2	138.5	127.4	114.7	102.4	89.3	20.2
25°	268.7	274.2	262.3	252.8	236.9	217.5	196.5	179.0	156.8	136.1	23.4
27.5°	467.1	470.7	447.3	416.3	379.4	338.5	298.8	269.1	231.8	197.6	29.4
30°	819.1	822.7	783.4	717.5	641.3	574.3	483.4	403.6	330.2	273.4	34.5
31°	1022.3	994.6	948.9	885.0	788.6	687.4	578.2	481.8	388.9	314.3	36.1
32°	1198.9	1196.6	1143.4	1046.5	949.7	824.7	689.4	563.6	449.7	355.6	37.3
33°	1407.3	1391.4	1316.4	1225.1	1096.9	971.1	796.5	652.9	512.0	401.6	38.1
34°	1574.4	1531.5	1500.6	1396.2	1260.9	1100.5	913.6	747.3	589.7	446.1	38.5
35°	1697.0	1687.9	1627.6	1530.3	1392.6	1228.7	1039.8	845.3	654.8	497.7	38.5
36°	1826.8	1798.6	1739.9	1651.8	1517.6	1348.2	1136.2	930.3	730.6	544.1	38.1
37°	1908.1	1891.5	1833.1	1742.3	1610.9	1449.0	1244.2	1020.0	791.0	590.5	37.3
38°	1991.9	1958.2	1900.6	1813.7	1684.7	1532.7	1322.4	1089.0	846.5	631.4	36.1
39°	2049.8	2014.9	1956.2	1869.7	1743.4	1592.6	1384.3	1147.7	894.9	662.0	34.5
40°	2093.5	2059.8	2000.2	1911.3	1786.7	1639.9	1435.9	1199.7	935.4	688.6	32.5
41°	2120.5	2089.1	2030.0	1941.5	1816.5	1666.9	1469.6	1233.5	962.8	706.4	30.6
42°	2143.1	2110.9	2050.6	1960.1	1834.7	1689.9	1490.2	1254.9	981.5	715.6	29.0
43°	2155.8	2123.6	2064.9	1972.4	1845.8	1700.6	1501.4	1264.8	987.8	714.4	26.2
44°	2162.9	2129.6	2070.5	1978.0	1850.6	1703.4	1502.2	1262.8	983.4	704.8	23.8
45°	2155.0	2122.1	2064.9	1972.4	1842.3	1694.6	1494.2	1252.1	966.8	686.2	21.0
46°	2103.4	2078.0	2025.6	1940.7	1816.1	1672.4	1474.0	1231.5	941.0	663.2	17.9
47°	2012.5	1992.3	1941.5	1878.4	1765.7	1631.5	1436.7	1192.2	904.9	628.6	14.3
48°	1917.7	1887.9	1840.7	1776.0	1680.7	1558.1	1375.2	1134.6	850.1	583.4	12.7
49°	1777.6	1760.1	1718.4	1646.2	1567.2	1459.3	1288.2	1060.8	783.0	534.2	11.1
50°	1649.0	1637.1	1578.7	1525.6	1441.8	1341.0	1170.4	963.6	699.7	473.1	9.9
51°	1548.6	1534.3	1492.2	1426.0	1336.7	1219.6	1058.8	837.4	604.0	400.4	7.9
52°	1443.8	1435.9	1398.6	1330.3	1242.6	1125.9	950.5	730.2	511.2	338.5	6.3
53°	1358.1	1346.6	1300.9	1240.2	1145.4	1024.7	833.0	630.6	433.0	284.6	5.6
54°	1233.1	1228.3	1198.9	1135.4	1032.7	901.3	726.7	531.0	361.2	241.3	4.8
55°	1100.1	1084.2	1054.5	1004.1	909.6	787.0	603.6	440.1	292.1	203.2	3.6
56°	938.2	937.4	884.2	842.2	758.4	628.2	482.2	343.7	237.3	169.5	3.2
57°	783.4	758.4	707.2	665.5	575.5	476.6	358.0	257.6	185.7	137.3	2.4
58°	579.4	566.3	552.8	491.7	408.4	337.7	255.6	181.0	137.3	104.8	1.6
59°	393.3	392.9	377.0	330.6	282.6	210.3	159.5	123.0	94.5	77.0	1.2
60°	296.9	289.7	258.0	227.4	177.8	133.0	94.5	72.6	58.7	49.6	0.8
62.5°	104.0	107.9	94.9	78.6	59.9	49.2	37.7	30.6	25.0	20.2	0.0
65°	21.4	23.4	20.2	19.0	15.1	13.1	11.5	9.9	8.3	7.1	0.0



TEST NUMBER: P1337602

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MW_2700K

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: P1337602

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MW_2700K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	23.0	23.0	23.0	23.0	23.0	23.0
2.5°	24.2	23.4	22.2	21.8	21.4	21.4
5°	23.8	22.2	21.0	19.8	19.4	19.4
7.5°	22.6	20.6	19.0	18.3	17.9	17.5
10°	21.4	18.7	17.1	16.3	16.3	16.3
12.5°	19.0	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	8.3	8.7	9.9	11.1	11.5
27.5°	8.7	7.1	7.9	9.5	10.7	11.1
30°	7.5	6.3	7.5	9.1	10.3	11.1
31°	7.1	6.0	7.5	8.7	10.3	11.1
32°	6.3	6.0	7.1	8.7	10.3	10.7
33°	6.0	5.6	7.1	8.7	10.3	10.7
34°	5.6	5.2	6.7	8.7	10.3	10.7
35°	4.8	5.2	6.7	8.3	9.9	10.7
36°	4.4	4.8	6.7	8.3	9.9	10.7
37°	4.0	4.8	6.3	8.3	9.9	10.7
38°	3.6	4.4	6.3	8.3	9.9	10.7
39°	3.2	4.4	6.0	8.3	9.9	10.7
40°	2.8	4.0	6.0	7.9	9.9	10.7
41°	2.8	4.0	6.0	7.9	9.9	10.7
42°	2.4	4.0	6.0	7.9	9.9	10.7
43°	2.0	3.6	6.0	7.9	9.9	10.7
44°	1.6	3.6	5.6	7.9	9.9	10.7
45°	1.6	3.6	5.6	7.9	9.9	10.7
46°	1.2	3.2	5.6	7.9	9.9	10.7
47°	0.8	3.2	5.6	7.5	9.9	10.7
48°	0.8	3.2	5.6	7.5	9.9	10.7
49°	0.8	3.2	5.2	7.5	9.9	10.7
50°	0.8	3.2	5.2	7.5	9.9	10.7
51°	0.4	2.8	5.2	7.5	9.9	10.7
52°	0.4	2.8	5.2	7.5	9.9	11.1
53°	0.4	2.8	5.2	7.5	9.9	10.7
54°	0.4	2.8	4.8	7.5	9.9	10.7
55°	0.4	2.8	4.8	7.5	9.9	10.7
56°	0.4	2.4	4.8	7.1	9.9	10.7
57°	0.8	2.4	4.8	7.1	9.9	10.3
58°	0.8	2.4	4.8	7.1	9.5	10.3
59°	0.8	2.4	4.8	7.1	9.5	10.3
60°	0.8	2.4	4.4	7.1	9.5	10.3
62.5°	0.8	2.4	4.4	6.7	9.1	9.9
65°	0.8	2.4	4.0	6.3	9.1	9.5



TEST NUMBER: P1337602

CATALOG NUMBER: P3A05R25B2750DE010 E3CA451MW_2700K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.0	4.0	6.0	8.7	9.1
70°	1.2	2.0	3.6	6.0	8.3	8.7
72.5°	1.2	2.0	3.6	5.2	7.5	8.3
75°	1.2	2.0	3.2	4.8	7.1	7.5
77.5°	1.2	2.0	2.8	4.4	6.3	6.7
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)