

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: P1337429

Luminaire Tested: P3A05R259735DE010 E3CA451MMS

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337429
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: P3A05R259735DE010 E3CA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 97CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

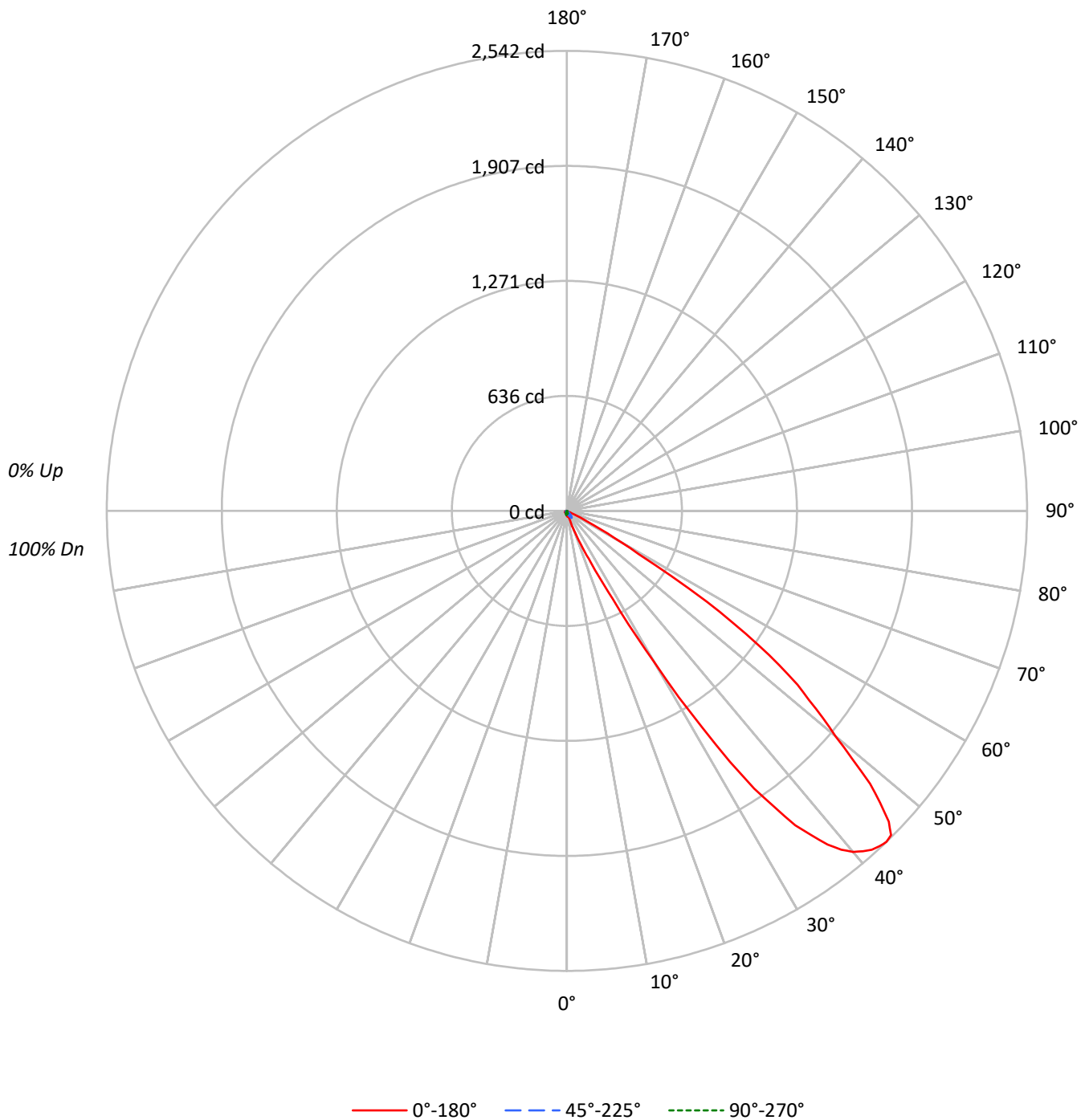
Lumens per Lamp: N/A
Luminaire Lumens: 530.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1337429

CATALOG NUMBER: P3A05R259735DE010 E3CA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1337429

CATALOG NUMBER: P3A05R259735DE010 E3CA451MMS

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°	5943	5943	5943	5943	5943
5°	6780	6471	5745	5129	5041
10°	6747	6123	4876	4253	4253
15°	7514	5289	3814	3610	3814
20°	26556	5227	2940	3057	3384
25°	76383	6654	2371	2831	3266
30°	243734	10280	1899	2709	3317
35°	533859	12100	1633	2623	3373
40°	704234	10935	1345	2662	3607
45°	785353	7660	1302	2884	3907
50°	661061	3991	1262	3036	4298
55°	494243	1606	1262	3403	4817
60°	153014	395	1228	3684	5307
65°	13075	0	1453	3891	5811
70°	898	321	1475	4488	6604
75°	763	424	1949	4745	7540
80°	631	631	2904	5304	8840
85°	1258	1258	4780	5787	9309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 785353 cd/sqm

TEST NUMBER: P1337429

CATALOG NUMBER: P3A05R259735DE010 E3CA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.5
10°-20°	6.2	1.2
20°-30°	29.3	5.5
30°-40°	141.2	26.6
40°-50°	221.3	41.7
50°-60°	113.5	21.4
60°-70°	10.7	2.0
70°-80°	3.6	0.7
80°-90°	1.8	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°	38.0	7.2
0°-40°	179.2	33.8
0°-60°	513.9	97.0
0°-90°	530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	530.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	31	29	26	23	23	3
15°	33	23	17	16	17	14
25°	316	28	10	12	14	196
35°	1994	45	6	10	13	1211
45°	2532	25	4	9	13	1853
55°	1293	4	3	9	13	1076
65°	25	0	3	8	11	79
75°	1	0	2	6	9	1
85°	0	0	2	2	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1337429

CATALOG NUMBER: P3A05R259735DE010 E3CA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
2.5°	29.4	29.4	29.4	29.4	29.4	29.4	28.9	28.9	29.4	28.9	28.9
5°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.3	30.3	30.3	29.4
7.5°	31.2	30.8	30.8	30.8	30.8	30.8	30.8	30.8	30.3	30.3	28.9
10°	30.3	30.3	30.3	30.3	29.8	29.8	29.8	29.4	29.4	29.4	27.5
12.5°	30.3	30.3	30.3	30.3	29.8	29.8	29.4	29.4	28.9	28.4	25.2
15°	33.1	33.1	33.1	32.6	32.2	31.7	31.2	30.8	30.3	29.4	23.3
17.5°	48.5	47.1	46.6	44.8	42.4	40.1	38.2	36.4	34.5	33.1	22.4
20°	113.8	113.3	111.0	105.4	99.3	92.3	85.3	77.4	66.2	58.8	22.4
22.5°	197.3	194.5	190.3	186.1	175.4	162.8	149.7	134.8	120.3	104.9	23.8
25°	315.7	322.3	308.3	297.1	278.4	255.6	230.9	210.3	184.2	160.0	27.5
27.5°	548.9	553.1	525.6	489.2	445.9	397.8	351.2	316.2	272.4	232.3	34.5
30°	962.6	966.8	920.6	843.2	753.7	674.9	568.1	474.3	388.0	321.3	40.6
31°	1201.4	1168.8	1115.1	1040.0	926.7	807.8	679.5	566.2	457.1	369.4	42.4
32°	1409.0	1406.2	1343.7	1229.9	1116.1	969.2	810.1	662.3	528.4	417.9	43.8
33°	1653.8	1635.2	1547.0	1439.7	1289.1	1141.3	936.0	767.2	601.6	472.0	44.8
34°	1850.2	1799.8	1763.4	1640.8	1481.7	1293.3	1073.6	878.2	693.1	524.2	45.2
35°	1994.3	1983.5	1912.7	1798.4	1636.6	1443.9	1221.9	993.4	769.5	584.8	45.2
36°	2146.8	2113.7	2044.6	1941.1	1783.5	1584.3	1335.3	1093.2	858.6	639.4	44.8
37°	2242.4	2222.8	2154.2	2047.4	1893.1	1702.8	1462.1	1198.6	929.5	694.0	43.8
38°	2340.8	2301.2	2233.5	2131.4	1979.8	1801.2	1554.0	1279.8	994.8	742.0	42.4
39°	2408.9	2367.8	2298.8	2197.2	2048.8	1871.6	1626.8	1348.8	1051.7	777.9	40.6
40°	2460.2	2420.6	2350.6	2246.1	2099.7	1927.1	1687.4	1409.9	1099.3	809.2	38.2
41°	2491.9	2455.1	2385.6	2281.6	2134.7	1958.8	1727.0	1449.5	1131.5	830.2	35.9
42°	2518.5	2480.7	2409.8	2303.5	2156.1	1985.9	1751.3	1474.7	1153.4	840.9	34.0
43°	2533.4	2495.6	2426.6	2317.9	2169.2	1998.5	1764.3	1486.4	1160.8	839.5	30.8
44°	2541.8	2502.6	2433.1	2324.5	2174.8	2001.7	1765.3	1484.0	1155.7	828.3	28.0
45°	2532.5	2493.8	2426.6	2317.9	2165.0	1991.5	1755.9	1471.5	1136.1	806.4	24.7
46°	2471.9	2442.0	2380.4	2280.6	2134.2	1965.4	1732.2	1447.2	1105.8	779.3	21.0
47°	2365.1	2341.3	2281.6	2207.4	2075.0	1917.3	1688.3	1401.0	1063.4	738.8	16.8
48°	2253.6	2218.6	2163.1	2087.1	1975.2	1831.0	1616.0	1333.4	999.0	685.6	14.9
49°	2088.9	2068.4	2019.5	1934.6	1841.8	1714.9	1513.9	1246.7	920.2	627.8	13.1
50°	1937.8	1923.8	1855.3	1792.8	1694.4	1575.9	1375.4	1132.4	822.2	555.9	11.7
51°	1819.8	1803.1	1753.6	1675.7	1570.8	1433.2	1244.3	984.1	709.8	470.6	9.3
52°	1696.7	1687.4	1643.5	1563.3	1460.3	1323.1	1117.0	858.2	600.7	397.8	7.5
53°	1596.0	1582.5	1528.8	1457.5	1346.0	1204.2	978.9	741.1	508.8	334.4	6.5
54°	1449.1	1443.5	1409.0	1334.3	1213.5	1059.2	854.0	624.0	424.4	283.6	5.6
55°	1292.8	1274.2	1239.2	1180.0	1069.0	924.8	709.4	517.2	343.3	238.8	4.2
56°	1102.5	1101.6	1039.1	989.7	891.3	738.3	566.7	403.9	278.9	199.1	3.7
57°	920.6	891.3	831.1	782.1	676.3	560.1	420.7	302.7	218.3	161.4	2.8
58°	680.9	665.5	649.7	577.9	479.9	396.9	300.4	212.7	161.4	123.1	1.9
59°	462.2	461.7	443.1	388.5	332.1	247.2	187.5	144.6	111.0	90.5	1.4
60°	348.9	340.5	303.2	267.2	208.9	156.2	111.0	85.3	69.0	58.3	0.9
62.5°	122.2	126.9	111.5	92.3	70.4	57.8	44.3	35.9	29.4	23.8	0.0
65°	25.2	27.5	23.8	22.4	17.7	15.4	13.5	11.7	9.8	8.4	0.0



TEST NUMBER: P1337429

CATALOG NUMBER: P3A05R259735DE010 E3CA451MMS

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	3.3	2.8	2.8	2.8	2.3	2.3	2.3	2.3	1.9	1.9	0.5
70°	1.4	1.4	1.4	1.4	1.4	1.4	0.9	0.9	0.9	0.9	0.5
72.5°	1.4	1.4	1.4	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
85°	0.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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: P1337429

CATALOG NUMBER: P3A05R259735DE010 E3CA451MMS

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	27.1	27.1	27.1	27.1	27.1	27.1
2.5°	28.4	27.5	26.1	25.7	25.2	25.2
5°	28.0	26.1	24.7	23.3	22.9	22.9
7.5°	26.6	24.3	22.4	21.5	21.0	20.5
10°	25.2	21.9	20.1	19.1	19.1	19.1
12.5°	22.4	19.6	17.7	17.3	17.7	17.7
15°	20.1	16.8	15.9	15.9	16.3	16.8
17.5°	17.3	14.9	14.0	14.5	14.9	15.4
20°	15.4	12.6	12.6	13.1	14.5	14.5
22.5°	13.5	11.2	11.2	12.6	13.5	14.0
25°	12.1	9.8	10.3	11.7	13.1	13.5
27.5°	10.3	8.4	9.3	11.2	12.6	13.1
30°	8.9	7.5	8.9	10.7	12.1	13.1
31°	8.4	7.0	8.9	10.3	12.1	13.1
32°	7.5	7.0	8.4	10.3	12.1	12.6
33°	7.0	6.5	8.4	10.3	12.1	12.6
34°	6.5	6.1	7.9	10.3	12.1	12.6
35°	5.6	6.1	7.9	9.8	11.7	12.6
36°	5.1	5.6	7.9	9.8	11.7	12.6
37°	4.7	5.6	7.5	9.8	11.7	12.6
38°	4.2	5.1	7.5	9.8	11.7	12.6
39°	3.7	5.1	7.0	9.8	11.7	12.6
40°	3.3	4.7	7.0	9.3	11.7	12.6
41°	3.3	4.7	7.0	9.3	11.7	12.6
42°	2.8	4.7	7.0	9.3	11.7	12.6
43°	2.3	4.2	7.0	9.3	11.7	12.6
44°	1.9	4.2	6.5	9.3	11.7	12.6
45°	1.9	4.2	6.5	9.3	11.7	12.6
46°	1.4	3.7	6.5	9.3	11.7	12.6
47°	0.9	3.7	6.5	8.9	11.7	12.6
48°	0.9	3.7	6.5	8.9	11.7	12.6
49°	0.9	3.7	6.1	8.9	11.7	12.6
50°	0.9	3.7	6.1	8.9	11.7	12.6
51°	0.5	3.3	6.1	8.9	11.7	12.6
52°	0.5	3.3	6.1	8.9	11.7	13.1
53°	0.5	3.3	6.1	8.9	11.7	12.6
54°	0.5	3.3	5.6	8.9	11.7	12.6
55°	0.5	3.3	5.6	8.9	11.7	12.6
56°	0.5	2.8	5.6	8.4	11.7	12.6
57°	0.9	2.8	5.6	8.4	11.7	12.1
58°	0.9	2.8	5.6	8.4	11.2	12.1
59°	0.9	2.8	5.6	8.4	11.2	12.1
60°	0.9	2.8	5.1	8.4	11.2	12.1
62.5°	0.9	2.8	5.1	7.9	10.7	11.7
65°	0.9	2.8	4.7	7.5	10.7	11.2



TEST NUMBER: P1337429

CATALOG NUMBER: P3A05R259735DE010 E3CA451MMS

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.9	2.3	4.7	7.0	10.3	10.7
70°	1.4	2.3	4.2	7.0	9.8	10.3
72.5°	1.4	2.3	4.2	6.1	8.9	9.8
75°	1.4	2.3	3.7	5.6	8.4	8.9
77.5°	1.4	2.3	3.3	5.1	7.5	7.9
80°	1.9	2.3	2.8	4.2	6.5	7.0
82.5°	1.9	2.3	2.3	3.3	5.1	5.6
85°	1.4	1.9	1.9	2.3	3.3	3.7
87.5°	1.4	1.9	1.4	0.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)