

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: P1333979

Luminaire Tested: P3A02R159024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1333979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

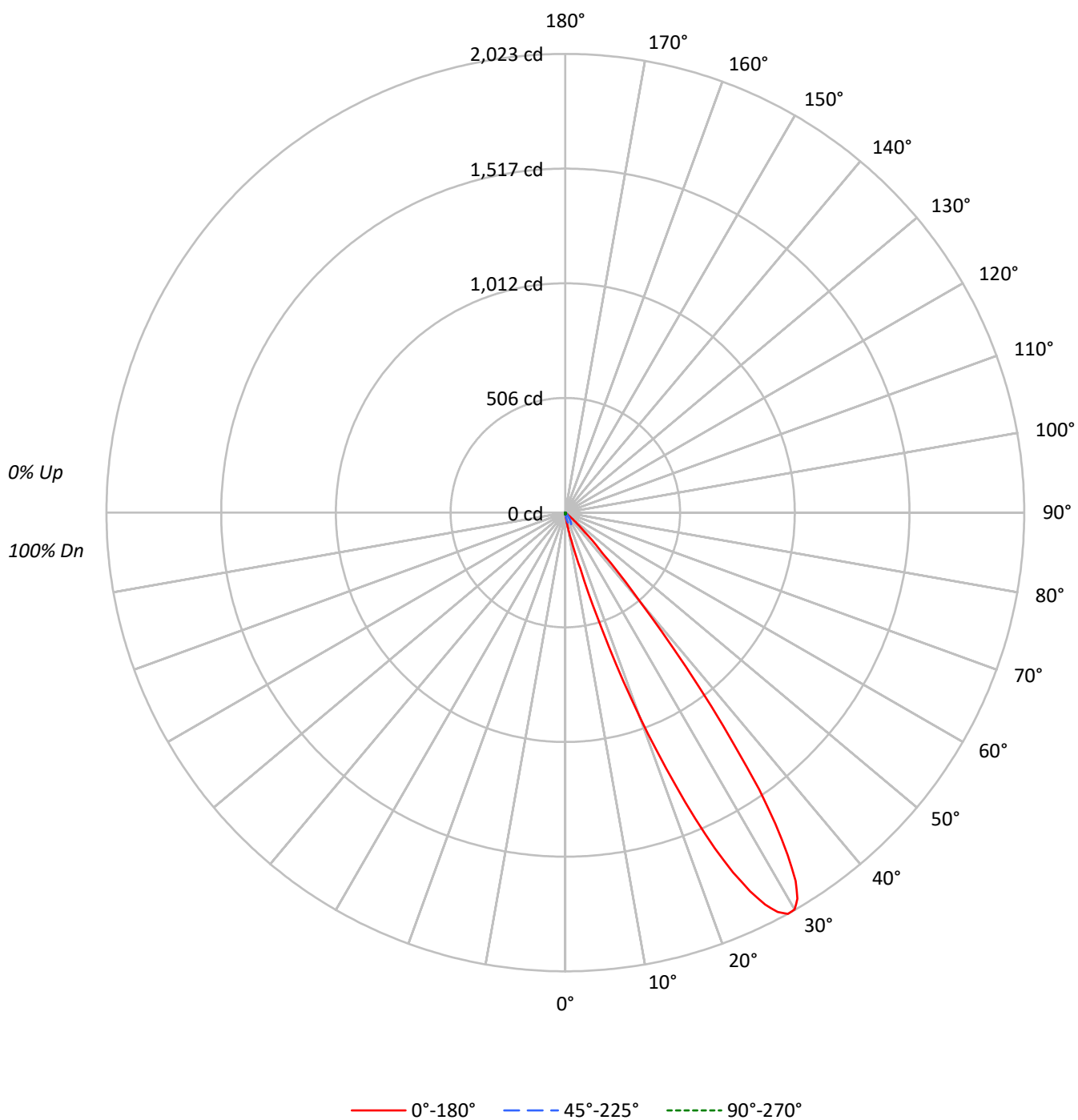
Lumens per Lamp: N/A
Luminaire Lumens: 221.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1333979

CATALOG NUMBER: P3A02R159024DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1333979

CATALOG NUMBER: P3A02R159024DE010 E3CA301MW

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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1601	1601	1601	1601	1601
5°	3456	2553	1519	814	660
10°	15319	4832	1202	334	245
15°	57934	11169	840	136	91
20°	222783	15751	490	47	47
25°	423653	14783	266	0	0
30°	511775	11926	101	0	0
35°	399156	8111	54	0	0
40°	145673	4008	57	0	57
45°	37399	1209	62	0	124
50°	6311	136	68	68	205
55°	803	0	153	229	421
60°	88	88	263	395	570
65°	104	104	467	571	675
70°	128	128	577	577	705
75°	169	169	763	508	763
80°	0	253	758	505	758
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 37399 cd/sqm

TEST NUMBER: P1333979

CATALOG NUMBER: P3A02R159024DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	16.9	7.7
20°-30°	93.9	42.5
30°-40°	90.7	41.1
40°-50°	15.8	7.1
50°-60°	1.1	0.5
60°-70°	0.7	0.3
70°-80°	0.5	0.2
80°-90°	0.3	0.1
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°	111.9	50.6
0°-40°	202.6	91.7
0°-60°	219.5	99.3
0°-90°	221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	221.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	16	12	7	4	3	3
15°	255	49	4	1	0	114
25°	1751	61	1	0	0	783
35°	1491	30	0	0	0	858
45°	121	4	0	0	0	130
55°	2	0	0	1	1	4
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1333979

CATALOG NUMBER: P3A02R159024DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	10.7	10.3	10.5	10.5	10.5	10.5	10.5	10.1	10.1	10.3	9.2
5°	15.7	15.7	15.5	15.7	15.7	15.5	15.0	14.8	14.8	14.4	11.6
7.5°	31.4	31.0	31.0	30.5	28.4	27.7	27.3	26.2	24.3	23.9	15.0
10°	68.8	69.0	67.5	65.6	65.4	62.1	61.1	59.1	55.5	51.8	21.7
12.5°	124.9	122.1	118.5	118.7	112.4	110.3	105.3	100.0	94.4	88.6	35.7
15°	255.2	247.2	252.0	240.3	227.2	212.4	197.3	178.4	162.3	145.1	49.2
17.5°	537.4	545.2	532.1	482.4	451.9	416.0	365.5	316.7	275.0	241.4	60.2
20°	954.7	966.1	921.6	878.4	804.2	723.4	639.1	543.7	452.3	373.2	67.5
21°	1129.1	1122.2	1103.9	1034.7	949.1	855.4	752.2	646.9	536.2	433.4	68.1
22°	1297.6	1300.8	1258.3	1185.8	1096.8	993.0	867.0	736.9	617.6	482.4	67.1
23°	1465.5	1475.8	1419.5	1351.6	1239.6	1122.4	976.6	836.3	688.8	538.5	64.9
24°	1620.9	1613.8	1575.8	1490.2	1370.5	1233.3	1082.0	911.7	747.3	586.5	63.2
25°	1751.0	1750.1	1690.4	1607.2	1470.2	1318.2	1151.4	973.4	797.4	618.9	61.1
26°	1857.4	1840.0	1792.9	1691.4	1556.2	1395.8	1208.4	1018.3	825.5	635.3	58.9
27°	1939.5	1927.1	1863.9	1758.3	1617.1	1439.7	1244.9	1040.7	838.4	640.6	56.1
28°	1994.8	1981.2	1913.9	1805.2	1650.6	1467.2	1264.3	1050.2	838.4	635.5	53.5
29°	2023.4	2004.9	1937.8	1821.3	1658.3	1470.4	1259.6	1040.9	825.3	619.6	50.5
30°	2021.2	1998.2	1927.9	1806.7	1635.3	1444.0	1233.1	1007.6	795.6	595.9	47.1
31°	1986.4	1960.6	1882.1	1757.2	1587.8	1394.1	1183.2	962.9	755.0	565.2	43.6
32°	1915.7	1883.0	1806.5	1682.0	1514.7	1319.5	1110.8	893.9	694.2	520.2	40.0
33°	1800.4	1767.5	1685.4	1568.7	1415.8	1224.9	1014.7	819.7	624.9	466.7	37.0
34°	1656.2	1626.1	1555.4	1437.8	1291.2	1105.2	904.2	717.2	553.1	413.6	33.8
35°	1491.1	1443.1	1379.1	1286.0	1143.0	956.0	784.9	621.7	479.2	357.9	30.3
36°	1267.7	1276.3	1208.4	1094.5	976.0	829.4	665.1	518.3	400.7	305.1	27.3
37°	1069.7	1056.2	1013.0	924.8	821.6	676.1	557.4	439.4	337.1	258.0	24.1
38°	862.9	865.9	823.6	755.9	653.5	555.9	448.7	360.9	282.1	219.5	21.1
39°	675.5	673.1	661.7	598.9	506.3	442.2	363.5	299.2	235.0	185.1	17.8
40°	508.9	512.7	486.1	448.2	394.3	341.6	289.6	238.6	194.3	156.1	14.0
42.5°	247.4	253.5	235.8	226.2	202.3	181.7	153.3	125.1	106.4	92.0	6.2
45°	120.6	117.2	115.7	110.9	105.3	94.2	83.4	71.6	62.6	54.0	3.9
47.5°	61.7	60.0	60.0	58.0	56.1	52.5	47.1	43.2	38.9	33.5	1.5
50°	18.5	18.3	18.1	18.3	17.6	18.3	18.7	18.9	17.2	17.0	0.4
52.5°	7.3	7.5	7.3	8.0	8.0	7.7	8.0	7.7	7.5	6.7	0.0
55°	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.6	2.4	2.6	0.0
57.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



TEST NUMBER: P1333979

CATALOG NUMBER: P3A02R159024DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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: P1333979

CATALOG NUMBER: P3A02R159024DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.3	7.3	7.3	7.3	7.3	7.3
2.5°	8.6	7.5	6.2	5.2	4.7	4.5
5°	9.2	6.9	4.7	3.7	3.2	3.0
7.5°	9.9	6.2	3.7	2.6	1.9	1.7
10°	10.3	5.4	2.8	1.5	1.1	1.1
12.5°	10.3	4.3	1.9	0.9	0.6	0.6
15°	10.1	3.7	1.3	0.6	0.4	0.4
17.5°	9.9	2.8	0.9	0.4	0.2	0.4
20°	9.2	2.1	0.4	0.2	0.2	0.2
21°	9.0	1.9	0.4	0.2	0.2	0.2
22°	8.6	1.7	0.2	0.0	0.2	0.2
23°	8.2	1.3	0.2	0.0	0.0	0.0
24°	7.5	1.1	0.2	0.0	0.0	0.0
25°	7.1	1.1	0.2	0.0	0.0	0.0
26°	6.7	0.6	0.0	0.0	0.0	0.0
27°	6.0	0.4	0.0	0.0	0.0	0.0
28°	5.6	0.4	0.0	0.0	0.0	0.0
29°	4.9	0.4	0.0	0.0	0.0	0.0
30°	4.3	0.4	0.0	0.0	0.0	0.0
31°	3.4	0.2	0.0	0.0	0.0	0.0
32°	2.8	0.2	0.0	0.0	0.0	0.0
33°	1.9	0.2	0.0	0.0	0.0	0.0
34°	1.3	0.2	0.0	0.0	0.0	0.0
35°	1.1	0.2	0.0	0.0	0.0	0.0
36°	0.6	0.2	0.0	0.0	0.0	0.2
37°	0.6	0.2	0.0	0.0	0.0	0.2
38°	0.4	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.4
45°	0.0	0.2	0.0	0.0	0.2	0.4
47.5°	0.0	0.2	0.0	0.0	0.4	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.6
52.5°	0.0	0.4	0.2	0.4	0.6	0.9
55°	0.2	0.4	0.4	0.6	0.9	1.1
57.5°	0.2	0.6	0.6	0.9	1.1	1.1
60°	0.4	0.6	0.9	0.9	1.3	1.3
62.5°	0.4	0.9	0.9	0.9	1.3	1.3
65°	0.4	0.9	0.9	1.1	1.3	1.3
67.5°	0.4	0.9	0.9	0.9	1.1	1.3
70°	0.4	0.9	0.6	0.9	1.1	1.1
72.5°	0.4	0.9	0.6	0.6	0.9	1.1
75°	0.4	0.9	0.6	0.6	0.9	0.9
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



TEST NUMBER: P1333979

CATALOG NUMBER: P3A02R159024DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)