

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: P1342585

Luminaire Tested: P3A09R409840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R409840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

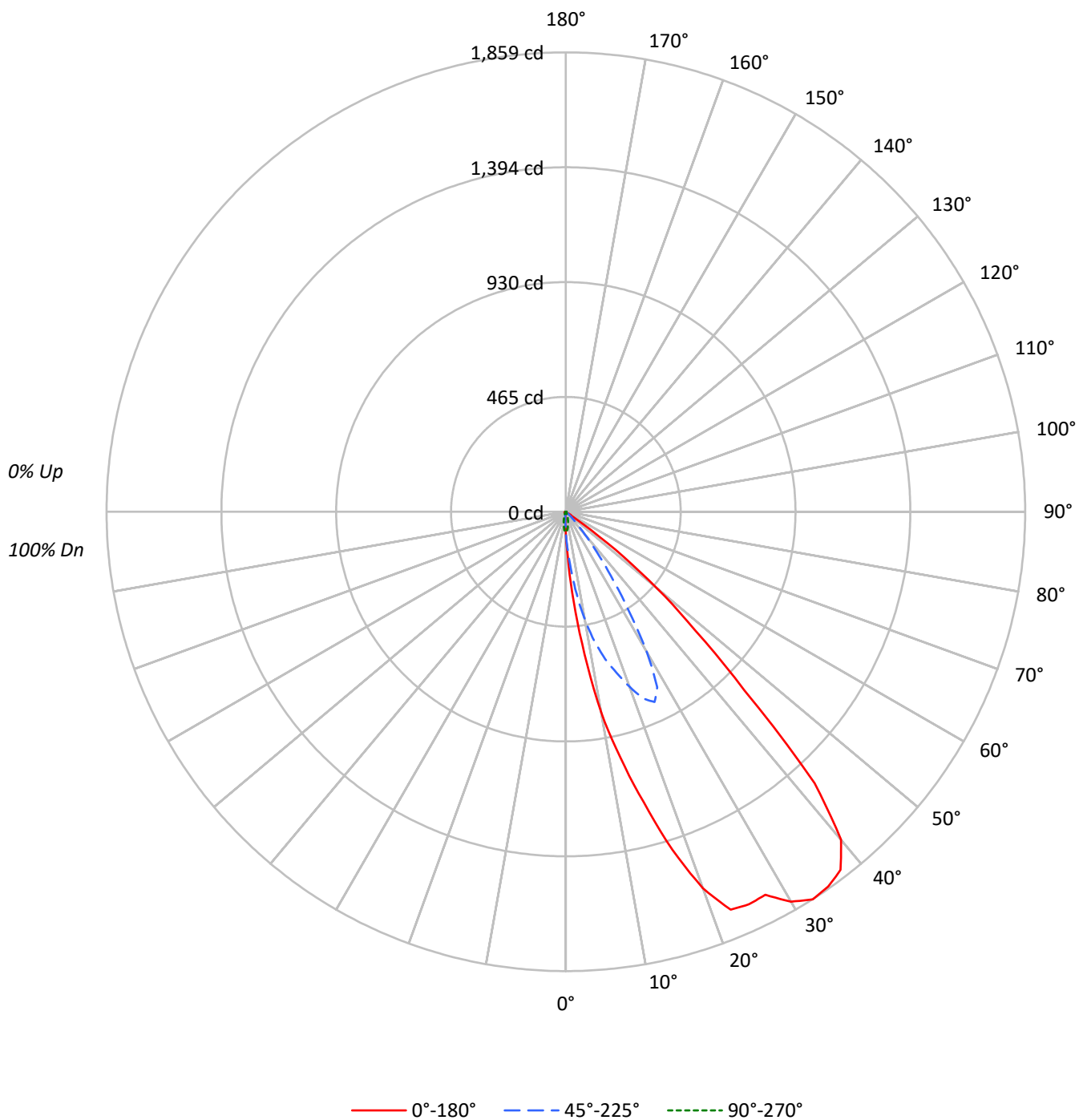
Lumens per Lamp: N/A
Luminaire Lumens: 686.0 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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: P1342585

CATALOG NUMBER: P3A09R409840DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1342585

CATALOG NUMBER: P3A09R409840DE010 E3CA301MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17806	17806	17806	17806	17806
5°	80277	51178	15959	6119	4468
10°	184098	98885	11222	2204	1670
15°	276279	140319	6969	1180	1044
20°	378290	175879	4060	677	817
25°	424065	205512	2105	556	702
30°	461261	165899	886	430	734
35°	495739	84885	321	616	937
40°	495901	33863	172	658	1174
45°	316622	11319	372	1085	1613
50°	164361	1399	580	1399	1979
55°	14183	229	650	1759	2447
60°	526	263	746	2017	2807
65°	623	311	1193	2127	3009
70°	385	385	1475	2244	2949
75°	508	508	1440	2457	3474
80°	758	758	2147	2147	2904
85°	0	1510	4277	3019	3019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 316622 cd/sqm

TEST NUMBER: P1342585

CATALOG NUMBER: P3A09R409840DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	2.3
10°-20°	92.9	13.5
20°-30°	203.3	29.6
30°-40°	231.7	33.8
40°-50°	122.2	17.8
50°-60°	14.4	2.1
60°-70°	2.6	0.4
70°-80°	2.1	0.3
80°-90°	1.0	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°	312.0	45.5
0°-40°	543.7	79.2
0°-60°	680.3	99.2
0°-90°	686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	81	81	81	81	81	
5°	365	232	72	28	20	49
15°	1217	618	31	5	5	359
25°	1753	849	9	2	3	808
35°	1852	317	1	2	4	1148
45°	1021	36	1	4	5	823
55°	37	1	2	5	6	115
65°	1	1	2	4	6	1
75°	1	1	2	3	4	1
85°	0	1	2	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1342585

CATALOG NUMBER: P3A09R409840DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
2.5°	180.9	180.9	180.3	175.1	174.5	173.9	164.7	162.3	151.3	143.8	109.6
5°	364.7	356.6	356.0	346.7	331.1	310.2	296.9	275.4	254.5	232.5	135.1
7.5°	581.0	587.9	568.8	558.9	524.1	499.2	460.9	427.3	380.3	336.3	156.0
10°	826.8	814.6	795.5	776.3	738.7	694.0	637.2	577.5	509.6	444.1	167.6
12.5°	1018.7	1003.0	991.4	965.4	928.3	870.9	803.0	723.0	633.1	538.6	167.0
15°	1217.0	1201.3	1175.2	1152.1	1097.0	1032.6	959.0	853.5	743.3	618.1	154.8
17.5°	1435.0	1414.7	1385.7	1350.3	1297.0	1225.7	1132.3	1003.6	847.7	683.0	132.8
20°	1621.1	1608.9	1579.9	1538.2	1486.0	1416.4	1308.6	1166.0	975.8	753.7	105.5
22.5°	1742.9	1731.8	1712.1	1675.6	1636.2	1562.0	1463.4	1306.9	1083.1	818.1	80.0
25°	1752.7	1748.1	1742.9	1730.7	1706.9	1654.2	1557.9	1389.2	1149.7	849.4	59.1
27.5°	1747.5	1745.8	1744.6	1738.2	1722.6	1670.4	1571.8	1401.4	1141.0	800.7	43.5
30°	1821.7	1816.5	1813.6	1792.7	1751.6	1671.0	1542.3	1335.8	1014.1	655.2	31.3
32.5°	1859.4	1858.2	1855.3	1835.1	1777.1	1672.1	1492.4	1177.6	804.2	473.1	21.5
35°	1851.9	1846.1	1835.6	1797.9	1717.4	1585.7	1331.2	940.4	580.4	317.1	13.9
37.5°	1826.4	1813.0	1792.7	1724.9	1617.6	1437.9	1079.6	692.3	394.8	205.2	8.1
40°	1732.4	1714.5	1682.6	1599.7	1458.8	1185.1	798.4	467.9	259.2	118.3	2.3
42.5°	1489.5	1466.3	1443.1	1350.3	1189.2	883.6	525.3	289.3	147.8	64.9	0.6
45°	1021.0	992.0	960.1	892.9	763.6	535.2	312.5	162.9	76.5	36.5	0.6
47.5°	709.1	695.8	640.1	554.3	425.0	283.5	161.8	80.0	40.6	16.8	0.6
50°	481.8	466.7	401.8	318.9	226.1	135.7	74.2	40.0	18.0	4.1	0.6
52.5°	252.8	234.2	193.1	147.3	91.6	56.8	32.5	17.4	5.2	0.6	0.6
55°	37.1	34.2	27.8	22.6	20.3	15.7	9.3	4.1	0.6	0.6	1.2
57.5°	1.2	1.2	1.2	1.2	1.7	1.7	1.2	0.6	0.6	0.6	1.2
60°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2
65°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2
67.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6	1.2	1.7
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.7
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.7
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2
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: P1342585

CATALOG NUMBER: P3A09R409840DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	81.2	81.2	81.2	81.2	81.2
2.5°	80.0	59.1	45.8	39.4	38.8
5°	72.5	42.3	27.8	21.5	20.3
7.5°	61.5	29.6	16.2	11.6	11.0
10°	50.4	20.3	9.9	8.1	7.5
12.5°	40.0	13.3	7.0	6.4	5.8
15°	30.7	8.7	5.2	4.6	4.6
17.5°	23.2	5.8	4.1	4.1	4.1
20°	17.4	4.1	2.9	3.5	3.5
22.5°	12.2	2.9	2.3	2.9	2.9
25°	8.7	2.3	2.3	2.9	2.9
27.5°	5.8	1.7	1.7	2.3	2.9
30°	3.5	1.2	1.7	2.3	2.9
32.5°	1.7	1.2	1.7	2.9	2.9
35°	1.2	1.7	2.3	2.9	3.5
37.5°	0.6	1.7	2.3	3.5	3.5
40°	0.6	1.7	2.3	3.5	4.1
42.5°	1.2	2.3	2.9	4.1	4.6
45°	1.2	2.3	3.5	4.6	5.2
47.5°	1.2	2.3	4.1	5.2	5.2
50°	1.7	2.9	4.1	5.2	5.8
52.5°	1.7	2.9	4.1	5.8	6.4
55°	1.7	2.9	4.6	5.8	6.4
57.5°	1.7	3.5	4.6	5.8	6.4
60°	1.7	2.9	4.6	5.8	6.4
62.5°	2.3	2.9	4.1	5.8	5.8
65°	2.3	2.9	4.1	5.8	5.8
67.5°	2.3	2.9	4.1	5.2	5.2
70°	2.3	2.9	3.5	4.6	4.6
72.5°	2.3	2.9	3.5	4.1	4.6
75°	1.7	2.3	2.9	3.5	4.1
77.5°	1.7	2.3	2.3	3.5	3.5
80°	1.7	1.7	1.7	2.3	2.3
82.5°	1.7	1.7	1.2	1.7	1.7
85°	1.7	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)