

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: P1346131

Luminaire Tested: P3A13R409840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346131
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: P3A13R409840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

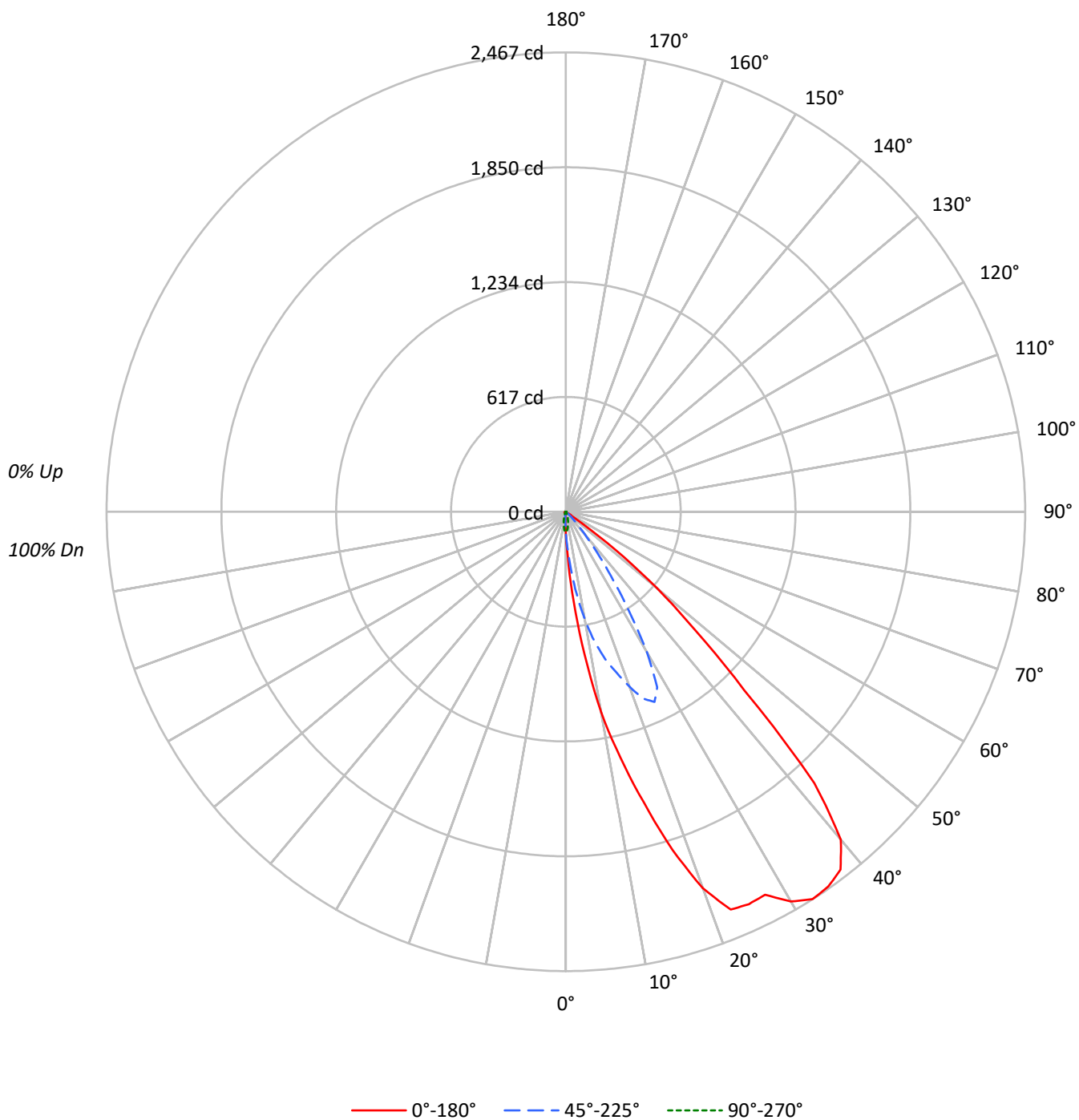
Lumens per Lamp: N/A
Luminaire Lumens: 910.0 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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: P1346131

CATALOG NUMBER: P3A13R409840DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1346131

CATALOG NUMBER: P3A13R409840DE010 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	52	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°	23617	23617	23617	23617	23617
5°	106493	67884	21153	8122	5921
10°	244217	131171	14896	2917	2227
15°	366495	186130	9262	1566	1407
20°	501804	233330	5390	887	1073
25°	562532	272629	2782	750	919
30°	611892	220059	1165	582	962
35°	657613	112618	402	830	1231
40°	657832	44913	229	887	1546
45°	420013	15040	465	1427	2140
50°	218023	1842	785	1842	2627
55°	18809	306	879	2370	3250
60°	658	351	1009	2719	3728
65°	778	415	1608	2802	3995
70°	513	513	1988	2949	3975
75°	678	678	1949	3219	4575
80°	1010	1010	2904	2904	3915
85°	0	2013	5787	3774	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 420013 cd/sqm

TEST NUMBER: P1346131

CATALOG NUMBER: P3A13R409840DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	2.3
10°-20°	123.2	13.5
20°-30°	269.7	29.6
30°-40°	307.3	33.8
40°-50°	162.1	17.8
50°-60°	19.1	2.1
60°-70°	3.4	0.4
70°-80°	2.8	0.3
80°-90°	1.3	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°	413.9	45.5
0°-40°	721.2	79.3
0°-60°	902.5	99.2
0°-90°	910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	108	108	108	108	108	
5°	484	308	96	37	27	65
15°	1614	820	41	7	6	476
25°	2325	1127	12	3	4	1071
35°	2457	421	2	3	5	1523
45°	1354	48	2	5	7	1092
55°	49	1	2	6	8	153
65°	2	1	3	5	8	1
75°	1	1	2	4	5	1
85°	0	1	2	2	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1346131

CATALOG NUMBER: P3A13R409840DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7	107.7
2.5°	240.0	240.0	239.2	232.3	231.5	230.7	218.4	215.4	200.7	190.7	145.4
5°	483.8	473.0	472.2	459.9	439.2	411.5	393.8	365.3	337.6	308.4	179.2
7.5°	770.7	779.9	754.5	741.4	695.3	662.2	611.4	566.8	504.5	446.1	206.9
10°	1096.8	1080.6	1055.2	1029.8	979.9	920.6	845.3	766.0	676.1	589.1	222.3
12.5°	1351.3	1330.6	1315.2	1280.6	1231.4	1155.2	1065.2	959.1	839.9	714.5	221.5
15°	1614.4	1593.6	1559.0	1528.2	1455.2	1369.8	1272.1	1132.1	986.0	819.9	205.4
17.5°	1903.6	1876.6	1838.2	1791.3	1720.5	1625.9	1502.1	1331.3	1124.4	906.0	176.1
20°	2150.4	2134.3	2095.8	2040.5	1971.2	1878.9	1735.9	1546.7	1294.4	999.9	140.0
22.5°	2312.0	2297.3	2271.2	2222.7	2170.4	2072.0	1941.2	1733.6	1436.7	1085.2	106.1
25°	2325.0	2318.9	2312.0	2295.8	2264.3	2194.3	2066.6	1842.8	1525.2	1126.8	78.4
27.5°	2318.1	2315.8	2314.3	2305.8	2285.0	2215.8	2085.1	1859.0	1513.6	1062.1	57.7
30°	2416.6	2409.6	2405.8	2378.1	2323.5	2216.6	2045.8	1772.0	1345.2	869.1	41.5
32.5°	2466.6	2465.0	2461.2	2434.3	2357.3	2218.1	1979.7	1562.1	1066.8	627.6	28.5
35°	2456.6	2448.9	2435.0	2385.0	2278.1	2103.5	1765.9	1247.5	769.9	420.7	18.5
37.5°	2422.7	2405.0	2378.1	2288.1	2145.8	1907.4	1432.1	918.3	523.8	272.3	10.8
40°	2298.1	2274.3	2232.0	2122.0	1935.1	1572.1	1059.1	620.7	343.8	156.9	3.1
42.5°	1975.9	1945.1	1914.3	1791.3	1577.5	1172.1	696.8	383.8	196.1	86.1	0.8
45°	1354.4	1316.0	1273.7	1184.4	1012.9	709.9	414.6	216.1	101.5	48.5	0.8
47.5°	940.6	922.9	849.1	735.3	563.8	376.1	214.6	106.1	53.8	22.3	0.8
50°	639.1	619.1	533.0	423.0	300.0	180.0	98.4	53.1	23.8	5.4	0.8
52.5°	335.3	310.7	256.1	195.4	121.5	75.4	43.1	23.1	6.9	0.8	0.8
55°	49.2	45.4	36.9	30.0	26.9	20.8	12.3	5.4	0.8	0.8	1.5
57.5°	1.5	1.5	1.5	1.5	2.3	2.3	1.5	0.8	0.8	0.8	1.5
60°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5
65°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5
67.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.8	0.8	1.5	2.3
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.3
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	2.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5
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: P1346131

CATALOG NUMBER: P3A13R409840DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	107.7	107.7	107.7	107.7	107.7
2.5°	106.1	78.4	60.8	52.3	51.5
5°	96.1	56.1	36.9	28.5	26.9
7.5°	81.5	39.2	21.5	15.4	14.6
10°	66.9	26.9	13.1	10.8	10.0
12.5°	53.1	17.7	9.2	8.5	7.7
15°	40.8	11.5	6.9	6.2	6.2
17.5°	30.8	7.7	5.4	5.4	5.4
20°	23.1	5.4	3.8	4.6	4.6
22.5°	16.2	3.8	3.1	3.8	3.8
25°	11.5	3.1	3.1	3.8	3.8
27.5°	7.7	2.3	2.3	3.1	3.8
30°	4.6	1.5	2.3	3.1	3.8
32.5°	2.3	1.5	2.3	3.8	3.8
35°	1.5	2.3	3.1	3.8	4.6
37.5°	0.8	2.3	3.1	4.6	4.6
40°	0.8	2.3	3.1	4.6	5.4
42.5°	1.5	3.1	3.8	5.4	6.2
45°	1.5	3.1	4.6	6.2	6.9
47.5°	1.5	3.1	5.4	6.9	6.9
50°	2.3	3.8	5.4	6.9	7.7
52.5°	2.3	3.8	5.4	7.7	8.5
55°	2.3	3.8	6.2	7.7	8.5
57.5°	2.3	4.6	6.2	7.7	8.5
60°	2.3	3.8	6.2	7.7	8.5
62.5°	3.1	3.8	5.4	7.7	7.7
65°	3.1	3.8	5.4	7.7	7.7
67.5°	3.1	3.8	5.4	6.9	6.9
70°	3.1	3.8	4.6	6.2	6.2
72.5°	3.1	3.8	4.6	5.4	6.2
75°	2.3	3.1	3.8	4.6	5.4
77.5°	2.3	3.1	3.1	4.6	4.6
80°	2.3	2.3	2.3	3.1	3.1
82.5°	2.3	2.3	1.5	2.3	2.3
85°	2.3	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)