

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: P1342073

Luminaire Tested: P3A09R359840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R359840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

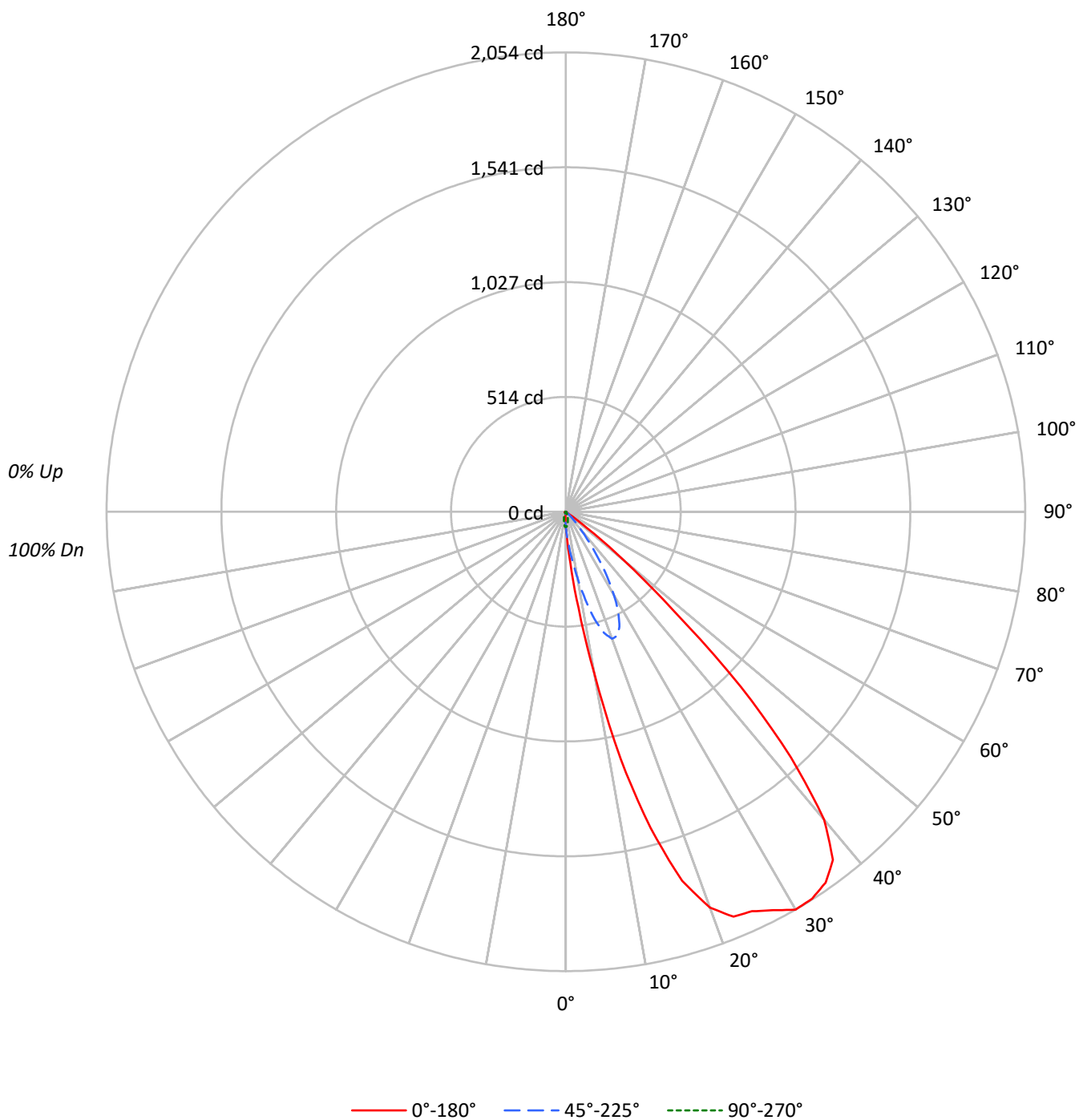
Lumens per Lamp: N/A
Luminaire Lumens: 646.0 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1342073

CATALOG NUMBER: P3A09R359840DE010 E3CA301MW

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	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
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14867	14867	14867	14867	14867
5°	50671	32930	13911	5877	4336
10°	163079	66754	10977	2204	1425
15°	332261	113213	7764	795	522
20°	439382	140992	5017	280	280
25°	476761	137089	2807	145	290
30°	520080	109232	1165	152	304
35°	541916	67994	321	161	321
40°	514249	29713	172	344	487
45°	343291	11877	186	527	899
50°	115135	1979	409	785	1194
55°	6423	229	459	1109	1567
60°	526	263	746	1272	1798
65°	623	311	882	1505	2127
70°	385	385	1090	1859	2244
75°	508	508	1440	1949	2457
80°	0	758	2147	2147	2147
85°	0	1510	4277	1510	3019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 343291 cd/sqm

TEST NUMBER: P1342073

CATALOG NUMBER: P3A09R359840DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	1.8
10°-20°	92.8	14.4
20°-30°	195.8	30.3
30°-40°	222.2	34.4
40°-50°	109.4	16.9
50°-60°	9.5	1.5
60°-70°	1.9	0.3
70°-80°	1.8	0.3
80°-90°	0.9	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°	300.4	46.5
0°-40°	522.6	80.9
0°-60°	641.4	99.3
0°-90°	646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	68	68	68	68	68	
5°	230	150	63	27	20	38
15°	1464	499	34	4	2	416
25°	1970	567	12	1	1	917
35°	2024	254	1	1	1	1248
45°	1107	38	1	2	3	818
55°	17	1	1	3	4	66
65°	1	1	2	3	4	1
75°	1	1	2	2	3	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1342073

CATALOG NUMBER: P3A09R359840DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
2.5°	117.7	120.6	119.5	118.9	118.3	116.0	110.8	110.2	105.0	101.5	84.1
5°	230.2	225.6	226.7	220.4	212.2	200.6	193.1	176.9	163.5	149.6	98.0
7.5°	433.8	427.4	415.2	396.6	377.5	352.6	314.9	284.7	249.9	216.9	109.0
10°	732.4	728.9	713.3	665.7	624.0	557.3	494.6	428.5	363.6	299.8	116.6
12.5°	1131.4	1107.6	1079.2	1016.0	933.6	850.1	726.6	612.4	508.6	401.9	117.1
15°	1463.6	1448.6	1408.6	1326.2	1227.0	1106.4	959.7	806.0	649.5	498.7	111.3
17.5°	1731.0	1707.8	1656.2	1575.6	1461.3	1304.8	1133.1	945.8	755.0	567.7	101.5
20°	1882.9	1870.7	1831.3	1750.7	1626.0	1454.9	1259.5	1041.5	821.1	604.2	88.7
22.5°	1959.4	1950.8	1921.8	1857.4	1740.8	1568.6	1344.8	1091.4	840.3	600.2	75.4
25°	1970.5	1968.1	1943.2	1894.5	1797.1	1626.6	1381.9	1100.6	824.6	566.6	62.6
27.5°	2008.7	2000.6	1971.0	1922.3	1824.3	1636.5	1369.1	1068.7	774.2	507.4	52.2
30°	2054.0	2048.2	2018.6	1968.1	1852.2	1627.2	1323.9	998.0	693.5	431.4	38.9
32.5°	2050.5	2048.2	2023.2	1969.9	1832.5	1572.7	1243.3	891.9	583.9	340.4	24.4
35°	2024.4	2016.3	1985.0	1902.6	1720.0	1432.3	1090.2	748.1	462.2	254.0	15.7
37.5°	1961.8	1944.4	1891.6	1751.8	1518.7	1216.0	887.8	577.6	327.1	169.9	9.9
40°	1796.5	1774.5	1668.3	1499.6	1255.5	958.0	660.5	397.2	215.7	103.8	4.1
42.5°	1490.3	1445.7	1339.5	1166.2	937.1	677.3	433.8	257.5	127.0	62.6	1.2
45°	1107.0	1072.8	961.5	804.3	614.1	434.3	262.7	139.2	70.2	38.3	0.6
47.5°	644.8	624.0	566.6	463.3	339.2	227.9	134.5	74.8	41.2	18.6	0.6
50°	337.5	311.4	267.9	203.0	149.6	105.0	65.5	40.0	20.3	5.8	0.6
52.5°	118.3	116.6	106.1	80.0	64.9	47.0	31.9	17.4	5.8	1.2	0.6
55°	16.8	16.8	15.7	17.4	18.6	16.8	11.0	4.6	1.2	0.6	0.6
57.5°	1.2	1.2	1.2	1.7	2.3	2.3	1.7	0.6	0.6	0.6	1.2
60°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
62.5°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
65°	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
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	0.6	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°	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	1.2
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: P1342073

CATALOG NUMBER: P3A09R359840DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	67.8	67.8	67.8	67.8	67.8
2.5°	67.3	53.9	42.9	37.7	36.0
5°	63.2	40.6	26.7	20.9	19.7
7.5°	56.2	29.0	16.2	11.6	11.0
10°	49.3	20.9	9.9	7.0	6.4
12.5°	41.2	14.5	6.4	4.1	3.5
15°	34.2	9.9	3.5	2.9	2.3
17.5°	27.3	6.4	2.3	1.7	2.3
20°	21.5	4.1	1.2	1.2	1.2
22.5°	16.2	2.3	1.2	1.2	1.2
25°	11.6	1.2	0.6	0.6	1.2
27.5°	8.1	0.6	0.6	0.6	1.2
30°	4.6	0.6	0.6	0.6	1.2
32.5°	2.3	0.6	0.6	1.2	1.2
35°	1.2	0.6	0.6	1.2	1.2
37.5°	0.6	0.6	0.6	1.2	1.7
40°	0.6	0.6	1.2	1.7	1.7
42.5°	0.6	0.6	1.2	1.7	2.3
45°	0.6	1.2	1.7	2.3	2.9
47.5°	1.2	1.2	2.3	2.9	3.5
50°	1.2	1.7	2.3	3.5	3.5
52.5°	1.2	1.7	2.9	3.5	4.1
55°	1.2	2.3	2.9	4.1	4.1
57.5°	1.7	2.3	2.9	4.1	4.1
60°	1.7	2.3	2.9	4.1	4.1
62.5°	1.7	2.3	2.9	4.1	4.1
65°	1.7	2.3	2.9	4.1	4.1
67.5°	1.7	2.3	2.9	3.5	4.1
70°	1.7	2.3	2.9	3.5	3.5
72.5°	2.3	2.3	2.9	3.5	3.5
75°	1.7	2.3	2.3	2.9	2.9
77.5°	1.7	1.7	1.7	2.3	2.3
80°	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.2	1.2	1.7	1.7
85°	1.7	1.2	0.6	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)