

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: P1342537

Luminaire Tested: P3A09R409827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342537
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: P3A09R409827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

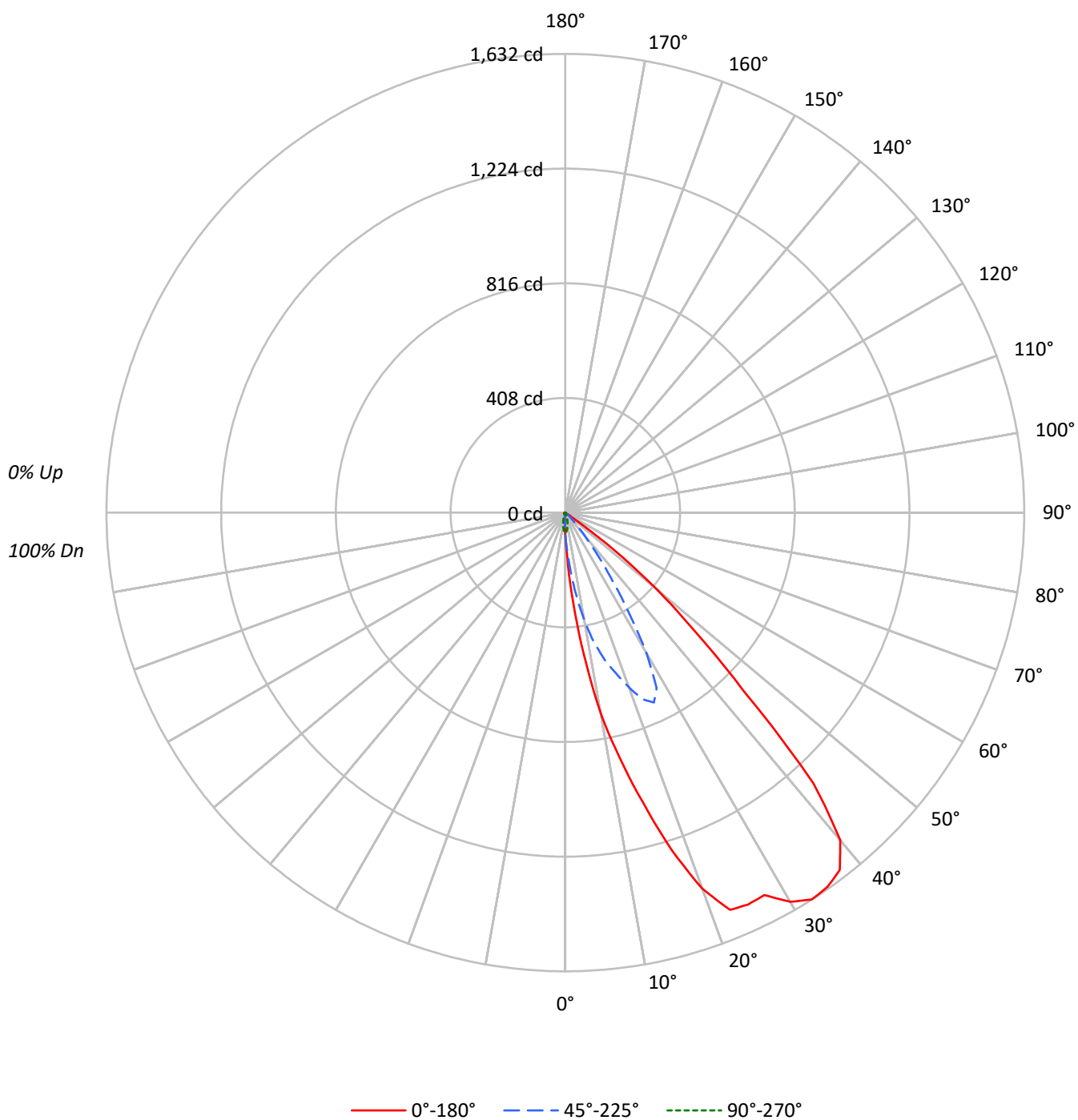
Lumens per Lamp: N/A
Luminaire Lumens: 602.0 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82
4	92	83	77	71	90	82	76	71	80	74	70		78	73	69		76
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70
6	80	70	62	57	79	69	62	57	67	61	57		66	60	56		64
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15613	15613	15613	15613	15613
5°	70438	44904	14000	5371	3918
10°	161542	86772	9864	1915	1470
15°	242453	123134	6129	1044	931
20°	331969	154340	3570	583	723
25°	372142	180349	1839	484	605
30°	404771	145567	785	380	633
35°	435027	74499	268	535	830
40°	435187	29713	143	573	1031
45°	277858	9955	310	961	1427
50°	144234	1228	512	1228	1740
55°	12463	191	573	1567	2141
60°	439	219	658	1798	2456
65°	519	259	1038	1868	2646
70°	321	321	1282	1988	2629
75°	424	424	1271	2118	3050
80°	631	631	1894	1894	2526
85°	0	1258	3774	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 277858 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	2.3
10°-20°	81.5	13.5
20°-30°	178.4	29.6
30°-40°	203.3	33.8
40°-50°	107.3	17.8
50°-60°	12.6	2.1
60°-70°	2.3	0.4
70°-80°	1.9	0.3
80°-90°	0.8	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°	273.8	45.5
0°-40°	477.1	79.3
0°-60°	597.0	99.2
0°-90°	602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	602.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	71	71	71	71	71	
5°	320	204	64	24	18	43
15°	1068	542	27	5	4	315
25°	1538	745	8	2	2	709
35°	1625	278	1	2	3	1007
45°	896	32	1	3	5	722
55°	33	0	2	4	6	101
65°	1	0	2	4	5	1
75°	0	0	2	2	4	1
85°	0	0	2	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
2.5°	158.7	158.7	158.2	153.7	153.1	152.6	144.5	142.5	132.8	126.2	96.2
5°	320.0	312.9	312.4	304.3	290.5	272.2	260.5	241.7	223.4	204.0	118.6
7.5°	509.8	515.9	499.1	490.5	460.0	438.1	404.5	375.0	333.8	295.1	136.9
10°	725.5	714.9	698.1	681.3	648.2	609.0	559.2	506.8	447.2	389.7	147.0
12.5°	894.0	880.2	870.0	847.2	814.6	764.2	704.7	634.5	555.6	472.7	146.5
15°	1068.0	1054.2	1031.3	1011.0	962.6	906.2	841.6	749.0	652.3	542.4	135.8
17.5°	1259.3	1241.5	1216.0	1185.0	1138.2	1075.6	993.7	880.7	743.9	599.4	116.5
20°	1422.6	1411.9	1386.5	1349.8	1304.1	1243.0	1148.4	1023.2	856.3	661.4	92.6
22.5°	1529.5	1519.8	1502.5	1470.4	1435.8	1370.7	1284.2	1146.8	950.4	717.9	70.2
25°	1538.1	1534.0	1529.5	1518.8	1497.9	1451.6	1367.1	1219.1	1008.9	745.4	51.9
27.5°	1533.5	1532.0	1531.0	1525.4	1511.6	1465.9	1379.4	1229.8	1001.3	702.7	38.2
30°	1598.6	1594.1	1591.5	1573.2	1537.1	1466.4	1353.4	1172.3	889.9	574.9	27.5
32.5°	1631.7	1630.7	1628.2	1610.4	1559.5	1467.4	1309.7	1033.4	705.7	415.2	18.8
35°	1625.1	1620.0	1610.9	1577.8	1507.1	1391.6	1168.2	825.3	509.3	278.3	12.2
37.5°	1602.7	1591.0	1573.2	1513.7	1419.6	1261.8	947.4	607.5	346.5	180.1	7.1
40°	1520.3	1504.5	1476.5	1403.8	1280.1	1040.0	700.6	410.6	227.4	103.8	2.0
42.5°	1307.1	1286.8	1266.4	1185.0	1043.5	775.4	461.0	253.9	129.7	57.0	0.5
45°	896.0	870.6	842.6	783.6	670.1	469.6	274.2	143.0	67.2	32.1	0.5
47.5°	622.3	610.6	561.7	486.4	373.0	248.8	142.0	70.2	35.6	14.8	0.5
50°	422.8	409.6	352.6	279.8	198.4	119.1	65.1	35.1	15.8	3.6	0.5
52.5°	221.8	205.6	169.4	129.2	80.4	49.9	28.5	15.3	4.6	0.5	0.5
55°	32.6	30.0	24.4	19.8	17.8	13.7	8.1	3.6	0.5	0.5	1.0
57.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.0	0.5	0.5	0.5	1.0
60°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
65°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	71.2	71.2	71.2	71.2	71.2
2.5°	70.2	51.9	40.2	34.6	34.1
5°	63.6	37.1	24.4	18.8	17.8
7.5°	53.9	25.9	14.2	10.2	9.7
10°	44.3	17.8	8.6	7.1	6.6
12.5°	35.1	11.7	6.1	5.6	5.1
15°	27.0	7.6	4.6	4.1	4.1
17.5°	20.4	5.1	3.6	3.6	3.6
20°	15.3	3.6	2.5	3.1	3.1
22.5°	10.7	2.5	2.0	2.5	2.5
25°	7.6	2.0	2.0	2.5	2.5
27.5°	5.1	1.5	1.5	2.0	2.5
30°	3.1	1.0	1.5	2.0	2.5
32.5°	1.5	1.0	1.5	2.5	2.5
35°	1.0	1.5	2.0	2.5	3.1
37.5°	0.5	1.5	2.0	3.1	3.1
40°	0.5	1.5	2.0	3.1	3.6
42.5°	1.0	2.0	2.5	3.6	4.1
45°	1.0	2.0	3.1	4.1	4.6
47.5°	1.0	2.0	3.6	4.6	4.6
50°	1.5	2.5	3.6	4.6	5.1
52.5°	1.5	2.5	3.6	5.1	5.6
55°	1.5	2.5	4.1	5.1	5.6
57.5°	1.5	3.1	4.1	5.1	5.6
60°	1.5	2.5	4.1	5.1	5.6
62.5°	2.0	2.5	3.6	5.1	5.1
65°	2.0	2.5	3.6	5.1	5.1
67.5°	2.0	2.5	3.6	4.6	4.6
70°	2.0	2.5	3.1	4.1	4.1
72.5°	2.0	2.5	3.1	3.6	4.1
75°	1.5	2.0	2.5	3.1	3.6
77.5°	1.5	2.0	2.0	3.1	3.1
80°	1.5	1.5	1.5	2.0	2.0
82.5°	1.5	1.5	1.0	1.5	1.5
85°	1.5	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)