

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: P1344924

Luminaire Tested: P3A13R309030DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R309030DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

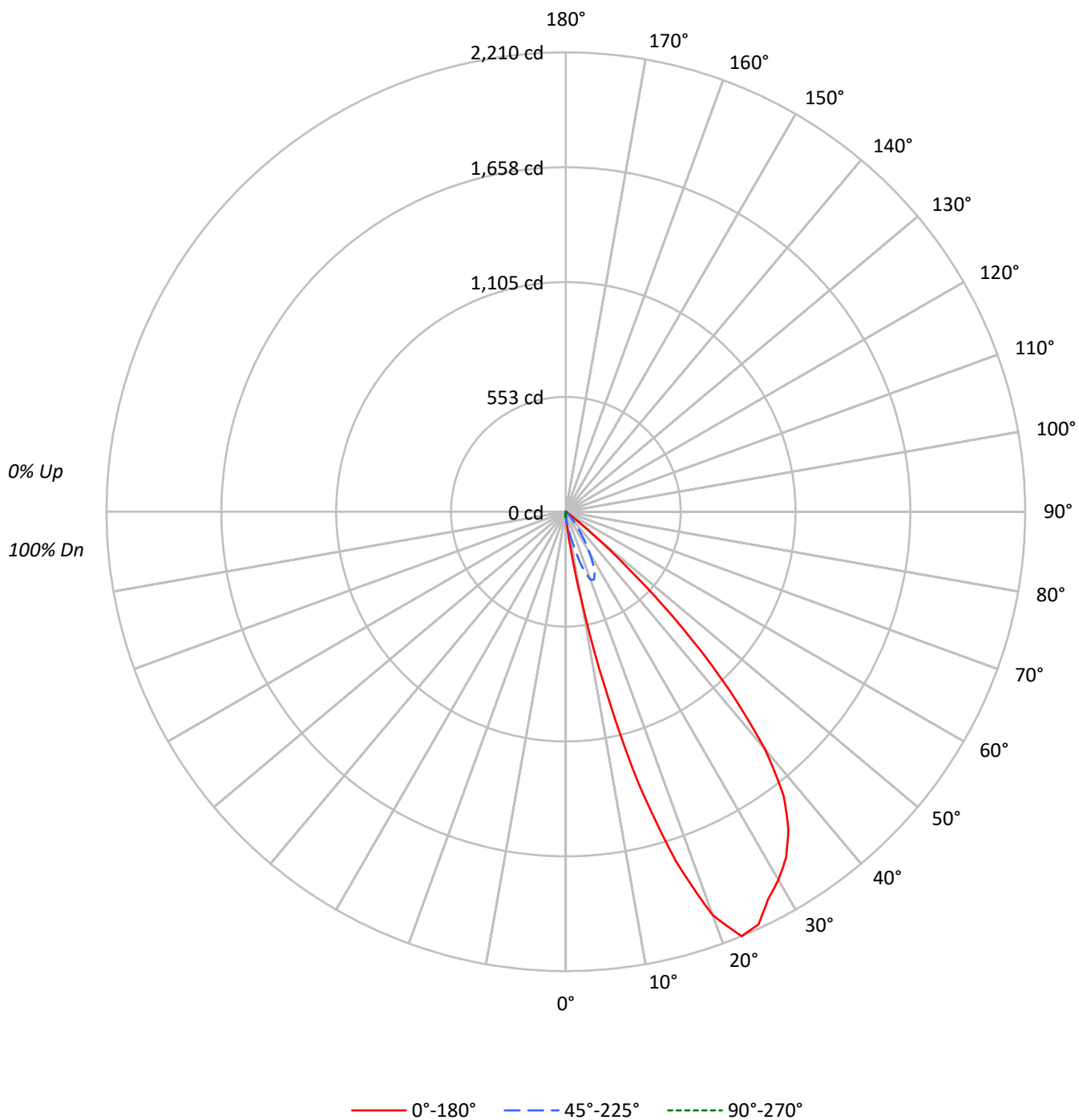
Lumens per Lamp: N/A
Luminaire Lumens: 521.0 lumens
Efficiency: N/A
Efficacy: 35.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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

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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	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	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	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	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5438	5438	5438	5438	5438
5°	16355	10896	5129	2311	1893
10°	94654	23112	4030	1069	735
15°	307902	52418	2815	227	114
20°	481805	81090	1773	0	0
25°	530087	79238	919	0	0
30°	517725	57148	354	0	0
35°	499701	32498	134	0	0
40°	426141	13769	0	0	0
45°	250103	5179	155	0	155
50°	60757	989	171	171	478
55°	5276	0	382	535	726
60°	219	0	439	614	1053
65°	259	259	726	726	1245
70°	321	321	898	898	1218
75°	0	424	1186	1186	1186
80°	0	631	1768	1263	1263
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 250103 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.9
10°-20°	71.6	13.7
20°-30°	182.0	34.9
30°-40°	181.4	34.8
40°-50°	73.5	14.1
50°-60°	5.1	1.0
60°-70°	1.1	0.2
70°-80°	1.1	0.2
80°-90°	0.7	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°	258.1	49.5
0°-40°	439.5	84.3
0°-60°	518.1	99.4
0°-90°	521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	74	50	23	10	9	17
15°	1356	231	12	1	0	395
25°	2191	328	4	0	0	989
35°	1867	121	0	0	0	1144
45°	806	17	0	0	0	615
55°	14	0	1	1	2	36
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	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°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
2.5°	40.9	41.4	41.4	40.5	40.0	40.0	38.6	38.1	36.7	35.2	30.5
5°	74.3	72.8	70.9	70.9	66.7	64.3	60.9	57.1	54.3	49.5	35.2
7.5°	168.5	157.1	153.8	149.5	133.3	120.4	105.7	92.8	80.9	70.9	39.0
10°	425.1	402.8	384.2	346.6	299.5	254.2	212.3	163.8	130.4	103.8	41.9
12.5°	856.5	826.5	790.8	722.2	634.1	521.3	421.3	314.7	220.9	152.8	42.8
15°	1356.3	1305.4	1249.7	1162.6	1018.3	856.5	676.0	506.1	354.7	230.9	41.9
17.5°	1763.9	1743.9	1661.5	1542.5	1365.9	1157.3	935.0	702.7	478.5	302.3	39.0
20°	2064.7	2050.9	1951.4	1824.8	1625.8	1386.8	1104.5	825.5	564.6	347.5	34.8
22.5°	2209.9	2207.6	2135.7	2006.2	1795.3	1524.4	1213.5	896.4	591.3	353.7	29.0
25°	2190.9	2199.5	2158.5	2062.4	1860.0	1581.0	1245.9	896.4	571.8	327.5	24.3
27.5°	2104.3	2110.0	2084.3	2010.5	1821.9	1540.1	1200.7	838.8	515.1	281.4	20.0
30°	2044.7	2047.1	2015.2	1936.2	1736.2	1446.8	1094.0	732.2	429.4	225.7	14.8
32.5°	1972.4	1971.9	1934.8	1844.3	1623.9	1315.9	958.8	605.1	329.9	171.4	8.6
35°	1866.7	1854.8	1804.3	1700.1	1456.3	1139.7	786.0	460.8	237.6	121.4	5.2
37.5°	1721.5	1690.5	1619.1	1479.6	1221.1	893.6	582.7	323.7	162.3	80.5	3.3
40°	1488.7	1455.8	1358.7	1189.2	923.6	643.2	392.8	210.9	102.4	48.1	1.9
42.5°	1167.3	1145.0	1014.0	845.0	609.9	410.4	236.1	124.7	57.6	27.6	0.5
45°	806.5	777.4	674.6	531.3	366.1	227.6	132.3	65.2	32.8	16.7	0.0
47.5°	445.1	409.4	349.9	275.2	184.2	119.5	66.7	35.2	18.6	8.1	0.0
50°	178.1	176.6	140.4	100.0	70.5	54.3	33.3	19.0	9.5	2.9	0.5
52.5°	62.4	62.4	53.8	43.8	34.3	24.8	16.7	9.0	3.3	1.0	0.5
55°	13.8	15.2	14.3	13.3	12.9	10.9	7.1	3.3	1.0	0.0	0.5
57.5°	1.4	1.4	1.4	1.9	2.4	2.4	1.9	1.0	0.0	0.0	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	1.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	1.0
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
75°	0.0	0.0	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	1.4
77.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	24.8	24.8	24.8	24.8	24.8
2.5°	24.8	19.5	16.2	14.3	13.8
5°	23.3	14.8	10.5	9.0	8.6
7.5°	20.9	10.9	7.1	5.7	5.2
10°	18.1	8.1	4.8	3.3	3.3
12.5°	15.2	6.2	2.9	1.4	1.0
15°	12.4	3.8	1.0	0.5	0.5
17.5°	9.5	2.4	0.0	0.0	0.0
20°	7.6	1.0	0.0	0.0	0.0
22.5°	5.7	0.5	0.0	0.0	0.0
25°	3.8	0.0	0.0	0.0	0.0
27.5°	2.4	0.0	0.0	0.0	0.0
30°	1.4	0.0	0.0	0.0	0.0
32.5°	0.5	0.0	0.0	0.0	0.0
35°	0.5	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.5	0.0	0.0	0.5	0.5
47.5°	0.5	0.5	0.5	1.0	1.0
50°	0.5	0.5	0.5	1.0	1.4
52.5°	1.0	0.5	1.0	1.4	1.4
55°	1.0	1.0	1.4	1.9	1.9
57.5°	1.0	1.0	1.4	1.9	1.9
60°	1.0	1.0	1.4	1.9	2.4
62.5°	1.4	1.4	1.4	1.9	1.9
65°	1.4	1.4	1.4	1.9	2.4
67.5°	1.4	1.4	1.4	1.9	2.4
70°	1.4	1.4	1.4	1.9	1.9
72.5°	1.9	1.4	1.4	1.9	1.9
75°	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	1.0	1.4	1.4
80°	1.4	1.0	1.0	1.0	1.0
82.5°	1.4	1.0	1.0	1.0	1.0
85°	1.4	1.0	0.5	0.5	0.5
87.5°	1.4	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)