

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: P1344879

Luminaire Tested: P3A13R309024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344879
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: P3A13R309024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

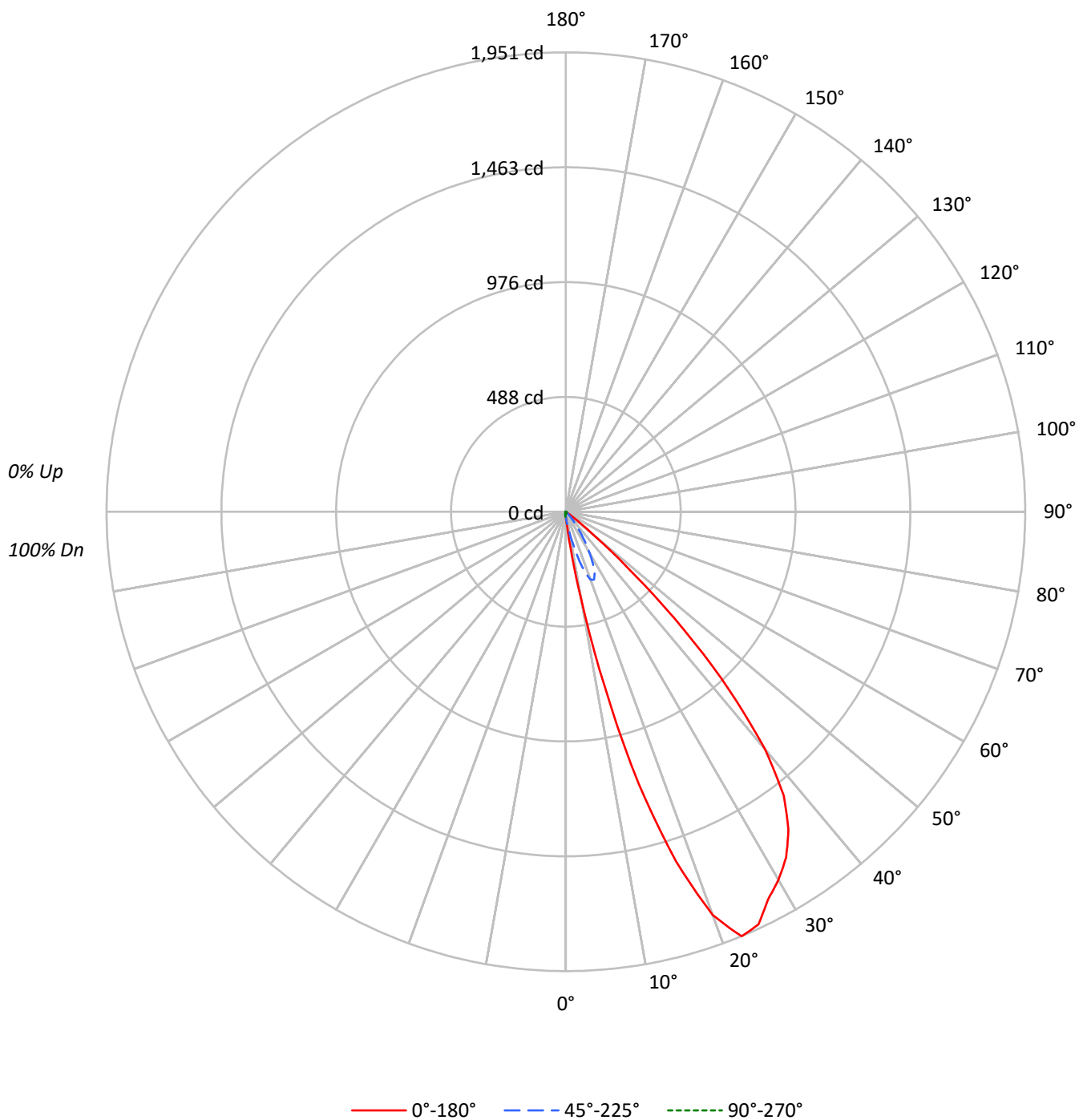
Lumens per Lamp: N/A
Luminaire Lumens: 460.0 lumens
Efficiency: N/A
Efficacy: 31.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	88	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°	4802	4802	4802	4802	4802
5°	14440	9619	4534	2025	1673
10°	83588	20396	3563	935	646
15°	271852	46289	2474	182	91
20°	425404	71593	1563	0	0
25°	468027	69972	823	0	0
30°	457108	50438	329	0	0
35°	441184	28697	107	0	0
40°	376248	12166	0	0	0
45°	220798	4559	124	0	124
50°	53627	853	136	136	443
55°	4664	0	306	497	650
60°	175	0	351	570	921
65°	208	208	675	675	1090
70°	256	256	833	833	1090
75°	0	339	1101	1101	1101
80°	0	505	1642	1010	1010
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 220798 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.9
10°-20°	63.2	13.7
20°-30°	160.7	34.9
30°-40°	160.1	34.8
40°-50°	64.9	14.1
50°-60°	4.5	1.0
60°-70°	1.0	0.2
70°-80°	1.0	0.2
80°-90°	0.6	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°	227.9	49.5
0°-40°	388.0	84.4
0°-60°	457.4	99.4
0°-90°	460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	460.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	66	44	21	9	8	15
15°	1198	204	11	1	0	349
25°	1934	289	3	0	0	873
35°	1648	107	0	0	0	1010
45°	712	15	0	0	0	543
55°	12	0	1	1	2	32
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°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
2.5°	36.1	36.6	36.6	35.7	35.3	35.3	34.0	33.6	32.4	31.1	26.9
5°	65.6	64.3	62.6	62.6	58.8	56.7	53.8	50.4	47.9	43.7	31.1
7.5°	148.8	138.7	135.8	132.0	117.7	106.3	93.3	82.0	71.5	62.6	34.5
10°	375.4	355.6	339.2	306.0	264.4	224.5	187.5	144.6	115.2	91.6	37.0
12.5°	756.2	729.7	698.2	637.6	559.9	460.3	372.0	277.8	195.0	134.9	37.8
15°	1197.5	1152.6	1103.4	1026.5	899.1	756.2	596.9	446.8	313.1	203.9	37.0
17.5°	1557.3	1539.7	1467.0	1361.9	1205.9	1021.8	825.5	620.4	422.4	266.9	34.5
20°	1823.0	1810.8	1723.0	1611.1	1435.4	1224.4	975.2	728.9	498.5	306.8	30.7
22.5°	1951.2	1949.1	1885.6	1771.3	1585.1	1345.9	1071.4	791.5	522.1	312.3	25.6
25°	1934.4	1941.9	1905.8	1820.9	1642.2	1395.9	1100.0	791.5	504.8	289.2	21.4
27.5°	1857.9	1862.9	1840.2	1775.1	1608.6	1359.8	1060.1	740.6	454.8	248.4	17.7
30°	1805.3	1807.4	1779.3	1709.5	1533.0	1277.4	965.9	646.5	379.1	199.2	13.0
32.5°	1741.4	1741.0	1708.2	1628.4	1433.8	1161.8	846.6	534.2	291.3	151.3	7.6
35°	1648.1	1637.6	1593.1	1501.0	1285.8	1006.3	694.0	406.9	209.7	107.2	4.6
37.5°	1519.9	1492.6	1429.6	1306.4	1078.2	789.0	514.5	285.8	143.3	71.0	2.9
40°	1314.4	1285.4	1199.6	1050.0	815.4	567.9	346.8	186.2	90.4	42.5	1.7
42.5°	1030.7	1010.9	895.3	746.1	538.4	362.3	208.5	110.1	50.9	24.4	0.4
45°	712.0	686.4	595.6	469.1	323.2	200.9	116.9	57.6	29.0	14.7	0.0
47.5°	393.0	361.5	308.9	243.0	162.7	105.5	58.8	31.1	16.4	7.1	0.0
50°	157.2	155.9	124.0	88.3	62.2	47.9	29.4	16.8	8.4	2.5	0.4
52.5°	55.1	55.1	47.5	38.7	30.3	21.9	14.7	8.0	2.9	0.8	0.4
55°	12.2	13.5	12.6	11.8	11.3	9.7	6.3	2.9	0.8	0.0	0.4
57.5°	1.3	1.3	1.3	1.7	2.1	2.1	1.7	0.8	0.0	0.0	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.8
62.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.8
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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°	21.9	21.9	21.9	21.9	21.9
2.5°	21.9	17.2	14.3	12.6	12.2
5°	20.6	13.0	9.2	8.0	7.6
7.5°	18.5	9.7	6.3	5.0	4.6
10°	16.0	7.1	4.2	2.9	2.9
12.5°	13.5	5.5	2.5	1.3	0.8
15°	10.9	3.4	0.8	0.4	0.4
17.5°	8.4	2.1	0.0	0.0	0.0
20°	6.7	0.8	0.0	0.0	0.0
22.5°	5.0	0.4	0.0	0.0	0.0
25°	3.4	0.0	0.0	0.0	0.0
27.5°	2.1	0.0	0.0	0.0	0.0
30°	1.3	0.0	0.0	0.0	0.0
32.5°	0.4	0.0	0.0	0.0	0.0
35°	0.4	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°	0.4	0.0	0.0	0.4	0.4
47.5°	0.4	0.4	0.4	0.8	0.8
50°	0.4	0.4	0.4	0.8	1.3
52.5°	0.8	0.4	0.8	1.3	1.3
55°	0.8	0.8	1.3	1.7	1.7
57.5°	0.8	0.8	1.3	1.7	1.7
60°	0.8	0.8	1.3	1.7	2.1
62.5°	1.3	1.3	1.3	1.7	1.7
65°	1.3	1.3	1.3	1.7	2.1
67.5°	1.3	1.3	1.3	1.7	2.1
70°	1.3	1.3	1.3	1.7	1.7
72.5°	1.7	1.3	1.3	1.7	1.7
75°	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.3	0.8	1.3	1.3
80°	1.3	0.8	0.8	0.8	0.8
82.5°	1.3	0.8	0.8	0.8	0.8
85°	1.3	0.8	0.4	0.4	0.4
87.5°	1.3	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)