

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: P1343965

Luminaire Tested: P3A13R209050DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R209050DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 5000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

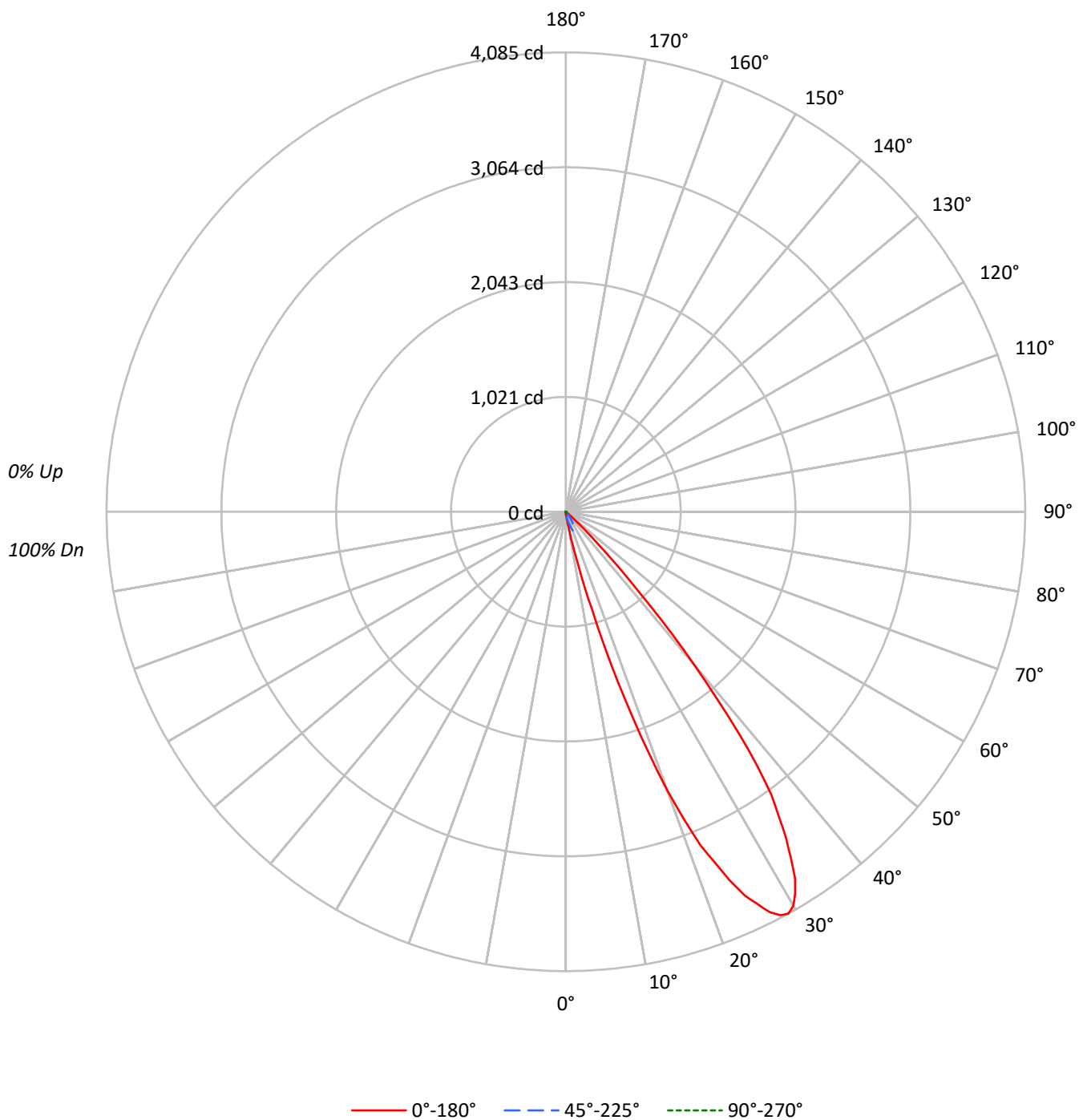
Lumens per Lamp: N/A
Luminaire Lumens: 573.0 lumens
Efficiency: N/A
Efficacy: 39.2 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4342	4342	4342	4342	4342
5°	9949	7440	4116	2509	2179
10°	31373	12959	3362	1381	1047
15°	203225	23950	2474	477	114
20°	613323	41000	1703	0	0
25°	910867	41373	1016	0	0
30°	1024310	31448	405	0	0
35°	883786	18792	268	0	0
40°	508925	6412	0	0	0
45°	124137	2574	155	0	155
50°	14908	716	171	171	546
55°	1988	0	382	382	803
60°	219	0	702	702	1140
65°	259	259	1090	1090	1608
70°	321	321	1346	1346	1667
75°	0	424	1779	1356	1779
80°	0	631	2020	1263	2020
85°	0	1258	4026	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 124943 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.5
10°-20°	53.1	9.3
20°-30°	231.5	40.4
30°-40°	233.1	40.7
40°-50°	46.7	8.2
50°-60°	2.3	0.4
60°-70°	1.5	0.3
70°-80°	1.4	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°	287.2	50.1
0°-40°	520.3	90.8
0°-60°	569.4	99.4
0°-90°	573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	573.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	45	34	19	11	10	7
15°	895	106	11	2	0	351
25°	3765	171	4	0	0	1697
35°	3302	70	1	0	0	1964
45°	400	8	0	0	0	436
55°	5	0	1	1	2	10
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
2.5°	29.6	29.6	29.1	29.1	28.6	29.1	28.1	28.6	28.6	28.1	25.5
5°	45.2	46.3	45.7	45.7	45.2	45.7	44.7	43.7	42.6	42.6	33.8
7.5°	74.3	73.8	72.8	73.3	71.7	70.7	69.7	69.1	66.0	64.5	44.2
10°	140.9	144.0	141.4	140.9	131.5	131.0	124.8	115.9	108.1	104.0	58.2
12.5°	387.8	404.4	378.4	366.0	358.7	330.6	318.7	288.0	258.4	236.0	73.8
15°	895.2	936.2	883.7	887.4	843.7	763.7	693.5	633.2	562.0	490.2	105.5
17.5°	1754.0	1720.7	1692.1	1643.8	1554.9	1437.4	1286.1	1132.7	1000.2	861.4	147.1
20°	2628.3	2598.7	2533.7	2428.2	2314.9	2140.7	1960.9	1730.6	1507.6	1298.6	175.7
21°	2929.3	2919.5	2812.9	2747.9	2573.2	2406.9	2199.5	1953.1	1702.0	1454.5	180.4
22°	3198.1	3138.8	3081.7	2985.5	2811.9	2630.9	2400.1	2140.7	1868.3	1593.3	180.9
23°	3384.2	3357.2	3303.1	3194.5	3021.9	2809.3	2566.0	2294.6	2007.6	1691.6	179.3
24°	3590.1	3555.8	3476.7	3349.9	3175.7	2965.7	2688.1	2418.8	2106.9	1774.2	175.2
25°	3764.7	3711.2	3617.6	3480.9	3290.6	3073.9	2794.7	2498.9	2176.1	1829.9	171.0
26°	3878.1	3848.9	3728.9	3580.2	3376.4	3152.9	2868.0	2560.2	2220.8	1855.3	164.3
27°	3996.1	3942.5	3824.5	3653.5	3432.5	3204.3	2909.6	2589.9	2236.4	1856.4	156.0
28°	4063.6	4005.4	3871.8	3692.0	3468.9	3232.9	2933.5	2599.2	2233.3	1840.3	146.1
29°	4085.0	4011.7	3881.2	3698.2	3477.8	3235.0	2929.9	2585.7	2205.7	1800.7	134.6
30°	4045.4	3970.6	3846.9	3668.6	3449.7	3209.0	2896.1	2541.0	2156.8	1744.1	124.2
31°	3959.2	3895.7	3776.2	3597.3	3387.3	3148.2	2819.6	2467.7	2073.7	1668.2	112.3
32°	3845.3	3782.9	3665.4	3503.8	3290.1	3048.9	2715.2	2353.3	1975.9	1554.9	100.3
33°	3674.3	3638.4	3532.9	3378.5	3164.8	2907.0	2574.8	2216.6	1836.6	1429.1	89.9
34°	3501.2	3455.9	3382.1	3213.2	2983.4	2726.1	2391.8	2027.9	1666.6	1288.2	80.1
35°	3301.5	3274.5	3158.6	3023.4	2792.6	2529.6	2197.4	1844.4	1468.6	1131.2	70.2
36°	3108.2	3066.6	2934.5	2791.6	2567.5	2283.2	1955.1	1623.5	1297.5	984.1	59.8
37°	2827.4	2764.0	2669.9	2519.2	2257.2	2014.9	1715.5	1407.7	1087.0	825.0	48.3
38°	2497.3	2467.7	2337.2	2185.4	1968.7	1738.9	1442.6	1181.6	896.7	688.8	36.9
39°	2108.0	2107.5	1982.7	1873.0	1660.9	1454.0	1186.8	959.1	740.3	554.7	28.6
40°	1777.9	1716.5	1639.6	1501.8	1339.1	1163.4	929.5	750.7	574.4	447.1	22.4
42.5°	932.1	926.9	881.7	778.2	687.2	583.8	464.2	386.8	302.6	246.4	14.0
45°	400.3	402.9	371.7	356.1	320.7	277.6	234.5	195.5	167.4	135.7	8.3
47.5°	101.4	97.2	96.2	99.8	99.8	96.7	86.8	81.6	75.4	69.1	4.7
50°	43.7	42.6	41.6	41.6	39.0	37.4	34.8	31.7	29.1	26.0	2.1
52.5°	16.1	16.6	17.2	16.6	16.6	16.1	16.1	15.6	14.0	12.5	1.0
55°	5.2	5.2	5.2	5.7	5.7	6.2	6.2	6.2	6.2	5.7	0.0
57.5°	1.0	1.0	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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: P1343965

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	19.8	19.8	19.8	19.8	19.8	19.8
2.5°	22.9	20.3	17.2	14.6	14.0	13.5
5°	25.5	18.7	14.0	11.4	10.4	9.9
7.5°	27.6	17.2	11.4	8.3	7.3	6.8
10°	28.6	15.1	9.4	6.2	4.7	4.7
12.5°	29.1	13.0	6.8	4.2	2.6	2.6
15°	28.6	10.9	5.2	2.1	0.5	0.5
17.5°	26.0	8.8	3.1	0.5	0.0	0.0
20°	22.4	7.3	2.1	0.0	0.0	0.0
21°	21.3	6.2	1.6	0.0	0.0	0.0
22°	19.8	5.7	1.0	0.0	0.0	0.0
23°	18.2	5.2	1.0	0.0	0.0	0.0
24°	16.6	4.7	0.5	0.0	0.0	0.0
25°	15.6	4.2	0.5	0.0	0.0	0.0
26°	14.6	3.6	0.5	0.0	0.0	0.0
27°	13.0	3.1	0.0	0.0	0.0	0.0
28°	12.0	2.6	0.0	0.0	0.0	0.0
29°	10.4	2.1	0.0	0.0	0.0	0.0
30°	8.8	1.6	0.0	0.0	0.0	0.0
31°	7.3	1.6	0.0	0.0	0.0	0.0
32°	6.2	1.0	0.0	0.0	0.0	0.0
33°	5.2	1.0	0.0	0.0	0.0	0.0
34°	4.7	1.0	0.0	0.0	0.0	0.0
35°	4.2	1.0	0.0	0.0	0.0	0.0
36°	3.1	0.5	0.0	0.0	0.0	0.0
37°	2.6	0.5	0.0	0.0	0.0	0.0
38°	2.1	0.5	0.0	0.0	0.0	0.0
39°	1.6	0.0	0.0	0.0	0.0	0.0
40°	1.6	0.0	0.0	0.0	0.0	0.0
42.5°	0.5	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.5	0.0	0.0	0.5	0.5
47.5°	0.0	0.5	0.0	0.0	0.5	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.6
52.5°	0.0	1.0	0.5	0.5	1.6	1.6
55°	0.5	1.0	0.5	1.0	2.1	2.1
57.5°	0.5	1.0	1.0	1.6	2.1	2.6
60°	1.0	1.6	1.6	1.6	2.6	2.6
62.5°	1.0	1.6	2.1	2.1	2.6	3.1
65°	1.0	2.1	2.1	2.1	2.6	3.1
67.5°	1.6	2.1	2.1	2.1	2.6	3.1
70°	1.6	2.1	2.1	2.1	2.6	2.6
72.5°	1.6	2.1	1.6	2.1	2.1	2.6
75°	1.6	2.1	1.6	1.6	2.1	2.1
77.5°	1.0	1.6	1.6	1.0	1.6	1.6
80°	1.0	1.6	1.0	1.0	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.6	1.0	0.5	1.0	1.0
85°	1.0	1.6	1.0	0.5	0.5	0.5
87.5°	1.0	1.6	1.0	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)