

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: P1343571

Luminaire Tested: P3A13R159835DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R159835DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

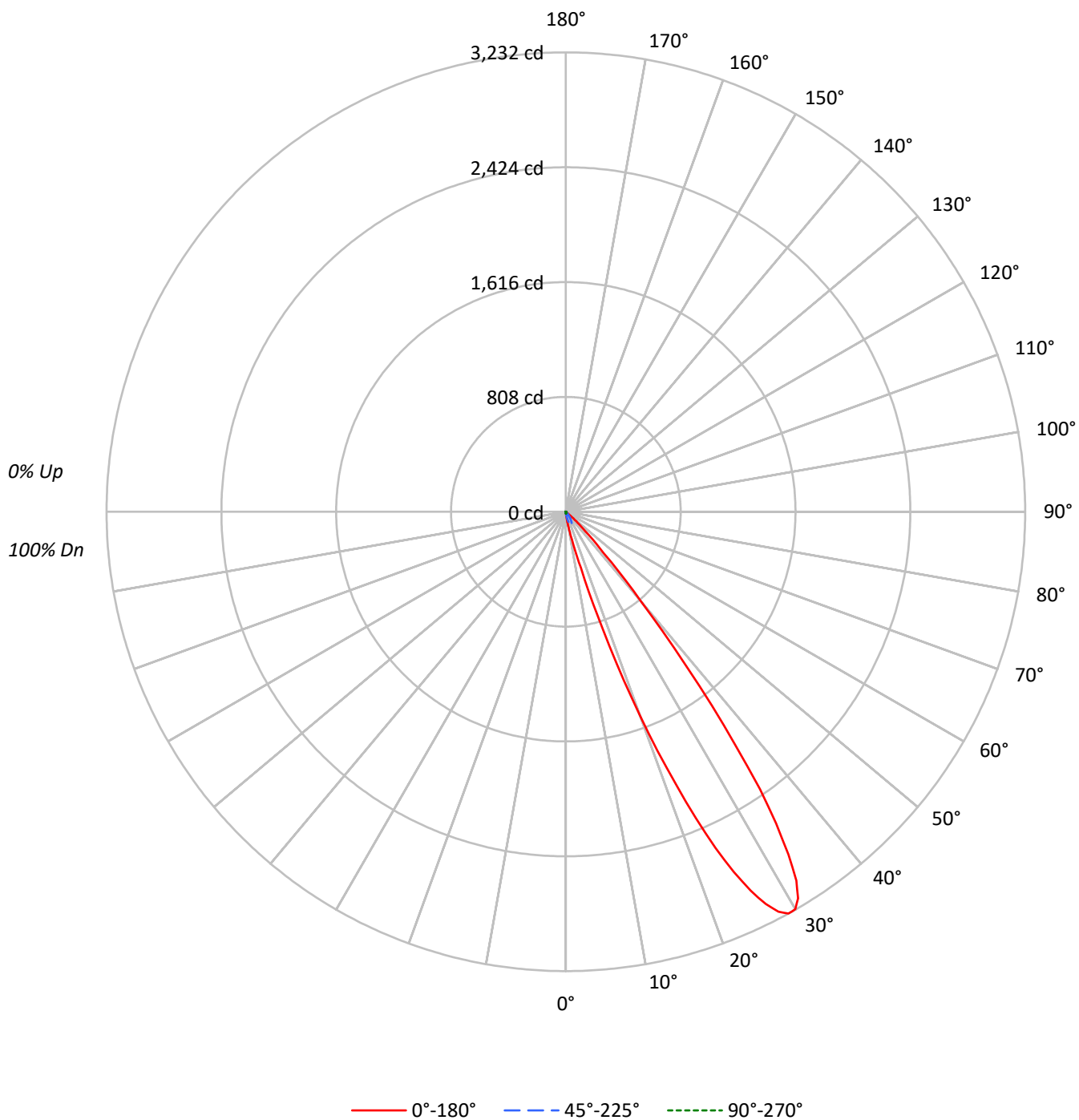
Lumens per Lamp: N/A
Luminaire Lumens: 353.0 lumens
Efficiency: N/A
Efficacy: 24.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71		79	74	70		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	67	64		71	66	63	61
6	81	71	64	59	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	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2566	2566	2566	2566	2566
5°	5525	4072	2421	1277	1057
10°	24471	7726	1915	534	379
15°	92532	17843	1317	227	159
20°	355864	25156	793	70	70
25°	676684	23590	411	0	0
30°	817468	19041	177	0	0
35°	637563	12956	80	0	0
40°	232664	6383	86	0	86
45°	59727	1923	93	0	217
50°	10064	239	102	102	341
55°	1300	0	268	382	650
60°	132	132	439	614	921
65°	156	156	726	882	1090
70°	192	192	898	898	1090
75°	254	254	1186	847	1186
80°	0	379	1263	884	1263
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 59727 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.5
10°-20°	27.0	7.7
20°-30°	150.0	42.5
30°-40°	144.9	41.1
40°-50°	25.2	7.1
50°-60°	1.8	0.5
60°-70°	1.1	0.3
70°-80°	0.9	0.2
80°-90°	0.4	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°	178.7	50.6
0°-40°	323.6	91.7
0°-60°	350.6	99.3
0°-90°	353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	353.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	25	18	11	6	5	5
15°	408	79	6	1	1	182
25°	2797	98	2	0	0	1251
35°	2382	48	0	0	0	1370
45°	193	6	0	0	1	207
55°	3	0	1	1	2	7
65°	0	0	1	2	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°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	17.2	16.5	16.8	16.8	16.8	16.8	16.8	16.1	16.1	16.5	14.8
5°	25.1	25.1	24.7	25.1	25.1	24.7	24.0	23.7	23.7	23.0	18.5
7.5°	50.1	49.4	49.4	48.8	45.3	44.3	43.6	41.9	38.8	38.1	24.0
10°	109.9	110.2	107.8	104.7	104.4	99.2	97.5	94.4	88.6	82.8	34.7
12.5°	199.5	195.0	189.2	189.5	179.6	176.2	168.3	159.7	150.7	141.5	57.0
15°	407.6	394.9	402.4	383.9	363.0	339.3	315.2	285.0	259.3	231.8	78.6
17.5°	858.5	870.8	849.9	770.5	721.8	664.4	583.7	505.8	439.2	385.6	96.1
20°	1525.0	1543.2	1472.1	1403.1	1284.6	1155.5	1020.9	868.4	722.5	596.1	107.8
21°	1803.4	1792.4	1763.3	1652.7	1516.0	1366.3	1201.5	1033.2	856.4	692.3	108.9
22°	2072.6	2077.8	2009.8	1894.1	1751.9	1586.1	1384.9	1177.1	986.5	770.5	107.1
23°	2340.8	2357.3	2267.3	2158.8	1979.9	1792.8	1560.0	1335.7	1100.2	860.2	103.7
24°	2589.1	2577.8	2517.0	2380.3	2189.0	1970.0	1728.2	1456.3	1193.6	936.7	101.0
25°	2796.8	2795.5	2700.0	2567.1	2348.4	2105.6	1839.1	1554.8	1273.6	988.6	97.5
26°	2966.8	2939.0	2863.8	2701.7	2485.7	2229.6	1930.1	1626.6	1318.6	1014.7	94.1
27°	3098.0	3078.1	2977.1	2808.5	2582.9	2299.6	1988.5	1662.3	1339.2	1023.3	89.6
28°	3186.2	3164.6	3057.1	2883.4	2636.5	2343.6	2019.4	1677.4	1339.2	1015.0	85.5
29°	3231.9	3202.4	3095.2	2909.1	2648.8	2348.7	2011.9	1662.6	1318.2	989.6	80.7
30°	3228.5	3191.7	3079.4	2885.8	2612.1	2306.5	1969.6	1609.4	1270.9	951.9	75.2
31°	3172.8	3131.6	3006.3	2806.8	2536.2	2226.8	1890.0	1538.0	1206.0	902.7	69.7
32°	3059.9	3007.7	2885.4	2686.6	2419.5	2107.7	1774.2	1427.8	1108.8	831.0	63.9
33°	2875.8	2823.3	2692.1	2505.6	2261.5	1956.6	1620.8	1309.3	998.2	745.5	59.1
34°	2645.4	2597.3	2484.4	2296.5	2062.3	1765.3	1444.3	1145.5	883.5	660.7	53.9
35°	2381.7	2305.1	2202.8	2054.1	1825.8	1527.0	1253.7	993.1	765.4	571.7	48.4
36°	2024.9	2038.6	1930.1	1748.1	1558.9	1324.8	1062.4	827.9	640.1	487.3	43.6
37°	1708.7	1687.0	1618.0	1477.2	1312.4	1079.9	890.4	701.9	538.4	412.1	38.5
38°	1378.3	1383.1	1315.5	1207.3	1043.9	888.0	716.6	576.5	450.5	350.6	33.7
39°	1078.9	1075.1	1056.9	956.7	808.7	706.3	580.7	478.0	375.3	295.7	28.5
40°	812.8	819.0	776.4	715.9	629.8	545.6	462.5	381.2	310.4	249.3	22.3
42.5°	395.2	404.8	376.7	361.2	323.1	290.2	244.8	199.8	170.0	147.0	10.0
45°	192.6	187.1	184.7	177.2	168.3	150.4	133.2	114.3	99.9	86.2	6.2
47.5°	98.6	95.8	95.8	92.7	89.6	83.8	75.2	69.0	62.2	53.6	2.4
50°	29.5	29.2	28.8	29.2	28.2	29.2	29.9	30.2	27.5	27.1	0.7
52.5°	11.7	12.0	11.7	12.7	12.7	12.4	12.7	12.4	12.0	10.6	0.0
55°	3.4	3.4	3.4	3.4	3.4	3.4	3.8	4.1	3.8	4.1	0.0
57.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	13.7	12.0	10.0	8.2	7.6	7.2
5°	14.8	11.0	7.6	5.8	5.2	4.8
7.5°	15.8	10.0	5.8	4.1	3.1	2.7
10°	16.5	8.6	4.5	2.4	1.7	1.7
12.5°	16.5	6.9	3.1	1.4	1.0	1.0
15°	16.1	5.8	2.1	1.0	0.7	0.7
17.5°	15.8	4.5	1.4	0.7	0.3	0.7
20°	14.8	3.4	0.7	0.3	0.3	0.3
21°	14.4	3.1	0.7	0.3	0.3	0.3
22°	13.7	2.7	0.3	0.0	0.3	0.3
23°	13.0	2.1	0.3	0.0	0.0	0.0
24°	12.0	1.7	0.3	0.0	0.0	0.0
25°	11.3	1.7	0.3	0.0	0.0	0.0
26°	10.6	1.0	0.0	0.0	0.0	0.0
27°	9.6	0.7	0.0	0.0	0.0	0.0
28°	8.9	0.7	0.0	0.0	0.0	0.0
29°	7.9	0.7	0.0	0.0	0.0	0.0
30°	6.9	0.7	0.0	0.0	0.0	0.0
31°	5.5	0.3	0.0	0.0	0.0	0.0
32°	4.5	0.3	0.0	0.0	0.0	0.0
33°	3.1	0.3	0.0	0.0	0.0	0.0
34°	2.1	0.3	0.0	0.0	0.0	0.0
35°	1.7	0.3	0.0	0.0	0.0	0.0
36°	1.0	0.3	0.0	0.0	0.0	0.3
37°	1.0	0.3	0.0	0.0	0.0	0.3
38°	0.7	0.3	0.0	0.0	0.0	0.3
39°	0.3	0.3	0.0	0.0	0.0	0.3
40°	0.3	0.3	0.0	0.0	0.0	0.3
42.5°	0.0	0.3	0.0	0.0	0.3	0.7
45°	0.0	0.3	0.0	0.0	0.3	0.7
47.5°	0.0	0.3	0.0	0.0	0.7	0.7
50°	0.0	0.3	0.3	0.3	0.7	1.0
52.5°	0.0	0.7	0.3	0.7	1.0	1.4
55°	0.3	0.7	0.7	1.0	1.4	1.7
57.5°	0.3	1.0	1.0	1.4	1.7	1.7
60°	0.7	1.0	1.4	1.4	2.1	2.1
62.5°	0.7	1.4	1.4	1.4	2.1	2.1
65°	0.7	1.4	1.4	1.7	2.1	2.1
67.5°	0.7	1.4	1.4	1.4	1.7	2.1
70°	0.7	1.4	1.0	1.4	1.7	1.7
72.5°	0.7	1.4	1.0	1.0	1.4	1.7
75°	0.7	1.4	1.0	1.0	1.4	1.4
77.5°	0.7	1.0	1.0	0.7	1.0	1.0
80°	0.7	1.0	0.7	0.7	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.0	0.7	0.3	0.7	0.7
85°	0.7	1.0	0.7	0.3	0.3	0.3
87.5°	0.7	1.0	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)