

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: P1343587

Luminaire Tested: P3A13R159840DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343587
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: P3A13R159840DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

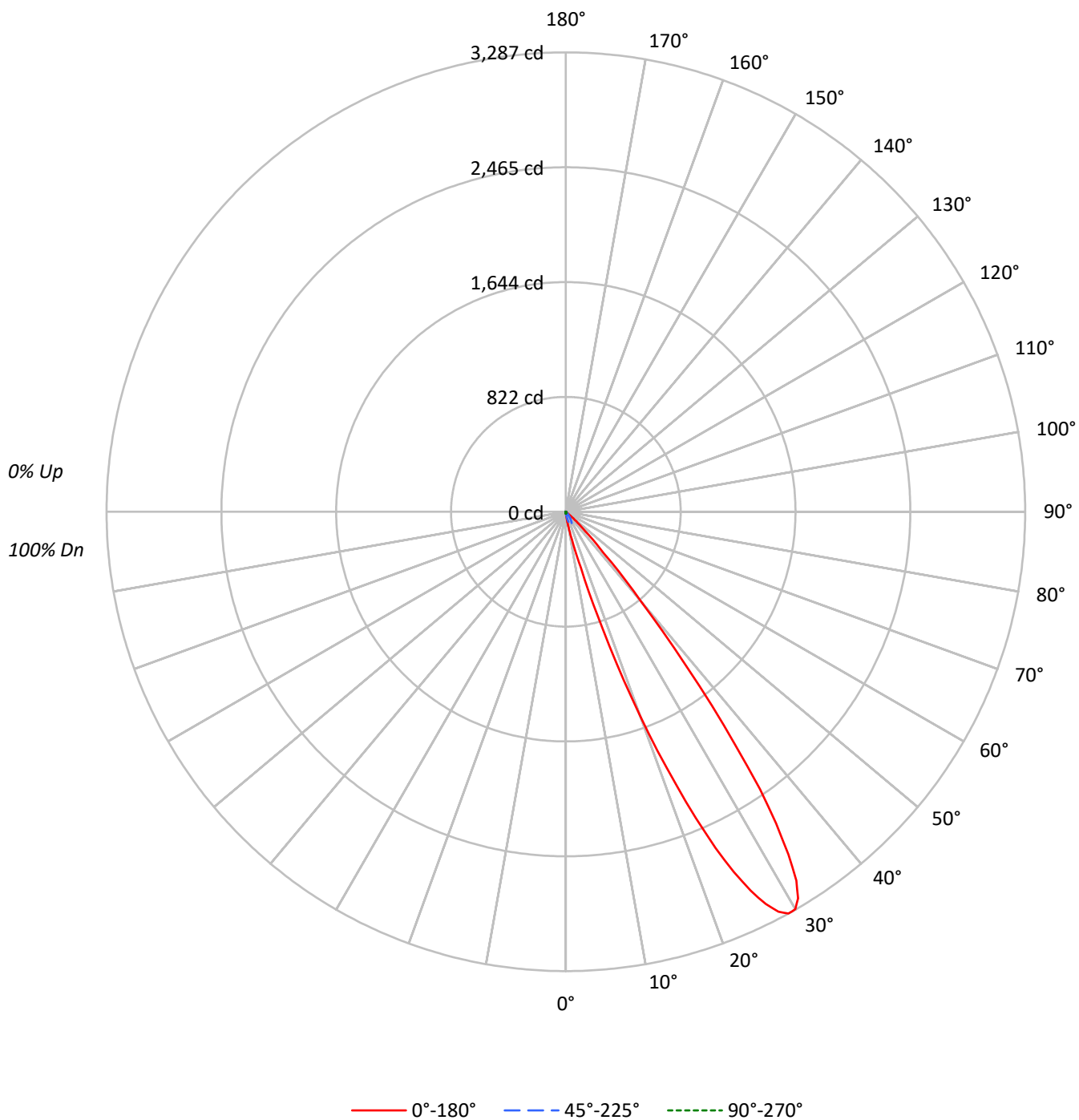
Lumens per Lamp: N/A
Luminaire Lumens: 358.9 lumens
Efficiency: N/A
Efficacy: 24.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	2609	2609	2609	2609	2609
5°	5613	4160	2465	1299	1079
10°	24872	7860	1937	534	379
15°	94098	18161	1339	227	159
20°	361908	25599	817	70	70
25°	688201	24001	411	0	0
30°	831343	19370	177	0	0
35°	648404	13170	80	0	0
40°	236615	6498	86	0	86
45°	60750	1954	93	0	217
50°	10234	239	102	102	341
55°	1338	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: 60750 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.5
10°-20°	27.5	7.7
20°-30°	152.6	42.5
30°-40°	147.4	41.1
40°-50°	25.6	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°	181.7	50.6
0°-40°	329.1	91.7
0°-60°	356.6	99.3
0°-90°	358.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	358.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	26	19	11	6	5	5
15°	414	80	6	1	1	185
25°	2844	99	2	0	0	1272
35°	2422	49	0	0	0	1393
45°	196	6	0	0	1	210
55°	4	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°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
2.5°	17.5	16.8	17.1	17.1	17.1	17.1	17.1	16.4	16.4	16.8	15.0
5°	25.5	25.5	25.1	25.5	25.5	25.1	24.4	24.1	24.1	23.4	18.9
7.5°	51.0	50.3	50.3	49.6	46.1	45.0	44.4	42.6	39.5	38.8	24.4
10°	111.7	112.1	109.7	106.5	106.2	100.9	99.2	96.0	90.1	84.2	35.3
12.5°	202.9	198.4	192.4	192.8	182.6	179.1	171.1	162.4	153.3	143.9	58.0
15°	414.5	401.6	409.3	390.4	369.1	345.0	320.6	289.8	263.7	235.7	80.0
17.5°	873.0	885.6	864.3	783.6	734.1	675.7	593.7	514.4	446.6	392.2	97.8
20°	1550.9	1569.4	1497.1	1426.9	1306.4	1175.1	1038.2	883.2	734.8	606.2	109.7
21°	1834.1	1822.9	1793.2	1680.8	1541.8	1389.5	1221.9	1050.8	870.9	704.0	110.7
22°	2107.9	2113.1	2044.0	1926.3	1781.7	1613.0	1408.4	1197.1	1003.3	783.6	109.0
23°	2380.6	2397.4	2305.9	2195.5	2013.6	1823.3	1586.5	1358.5	1118.9	874.8	105.5
24°	2633.1	2621.6	2559.8	2420.8	2226.3	2003.5	1757.6	1481.0	1213.9	952.7	102.7
25°	2844.4	2843.0	2745.9	2610.7	2388.3	2141.4	1870.4	1581.3	1295.2	1005.4	99.2
26°	3017.2	2988.9	2912.5	2747.6	2528.0	2267.5	1962.9	1654.2	1341.0	1031.9	95.7
27°	3150.6	3130.4	3027.7	2856.2	2626.8	2338.7	2022.3	1690.6	1361.9	1040.7	91.1
28°	3240.4	3218.4	3109.1	2932.4	2681.3	2383.4	2053.7	1705.9	1361.9	1032.3	87.0
29°	3286.8	3256.8	3147.8	2958.6	2693.9	2388.6	2046.1	1690.9	1340.6	1006.4	82.1
30°	3283.3	3246.0	3131.8	2934.8	2656.5	2345.7	2003.1	1636.8	1292.5	968.0	76.5
31°	3226.8	3184.9	3057.4	2854.5	2579.3	2264.7	1922.1	1564.1	1226.4	918.1	70.9
32°	3111.9	3058.8	2934.5	2732.3	2460.6	2143.5	1804.4	1452.0	1127.6	845.1	65.0
33°	2924.7	2871.3	2737.9	2548.2	2299.9	1989.8	1648.3	1331.6	1015.2	758.1	60.1
34°	2690.4	2641.5	2526.6	2335.6	2097.4	1795.3	1468.8	1165.0	898.5	671.9	54.8
35°	2422.2	2344.3	2240.2	2089.0	1856.8	1553.0	1275.0	1009.9	778.4	581.4	49.2
36°	2059.3	2073.3	1962.9	1777.9	1585.4	1347.3	1080.5	842.0	650.9	495.5	44.4
37°	1737.7	1715.7	1645.5	1502.3	1334.7	1098.3	905.5	713.8	547.6	419.1	39.1
38°	1401.8	1406.6	1337.8	1227.8	1061.6	903.1	728.8	586.3	458.2	356.6	34.2
39°	1097.2	1093.4	1074.9	972.9	822.4	718.3	590.5	486.1	381.7	300.7	29.0
40°	826.6	832.9	789.6	728.1	640.5	554.9	470.4	387.6	315.7	253.5	22.7
42.5°	401.9	411.7	383.1	367.4	328.6	295.1	249.0	203.2	172.9	149.5	10.1
45°	195.9	190.3	187.9	180.2	171.1	153.0	135.5	116.3	101.6	87.7	6.3
47.5°	100.2	97.4	97.4	94.3	91.1	85.2	76.5	70.2	63.2	54.5	2.4
50°	30.0	29.7	29.3	29.7	28.6	29.7	30.4	30.7	27.9	27.6	0.7
52.5°	11.9	12.2	11.9	12.9	12.9	12.6	12.9	12.6	12.2	10.8	0.0
55°	3.5	3.5	3.5	3.5	3.5	3.5	3.8	4.2	3.8	4.2	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°	11.9	11.9	11.9	11.9	11.9	11.9
2.5°	14.0	12.2	10.1	8.4	7.7	7.3
5°	15.0	11.2	7.7	5.9	5.2	4.9
7.5°	16.1	10.1	5.9	4.2	3.1	2.8
10°	16.8	8.7	4.5	2.4	1.7	1.7
12.5°	16.8	7.0	3.1	1.4	1.0	1.0
15°	16.4	5.9	2.1	1.0	0.7	0.7
17.5°	16.1	4.5	1.4	0.7	0.3	0.7
20°	15.0	3.5	0.7	0.3	0.3	0.3
21°	14.7	3.1	0.7	0.3	0.3	0.3
22°	14.0	2.8	0.3	0.0	0.3	0.3
23°	13.3	2.1	0.3	0.0	0.0	0.0
24°	12.2	1.7	0.3	0.0	0.0	0.0
25°	11.5	1.7	0.3	0.0	0.0	0.0
26°	10.8	1.0	0.0	0.0	0.0	0.0
27°	9.8	0.7	0.0	0.0	0.0	0.0
28°	9.1	0.7	0.0	0.0	0.0	0.0
29°	8.0	0.7	0.0	0.0	0.0	0.0
30°	7.0	0.7	0.0	0.0	0.0	0.0
31°	5.6	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)