

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: P1343539

Luminaire Tested: P3A13R159827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343539
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: P3A13R159827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

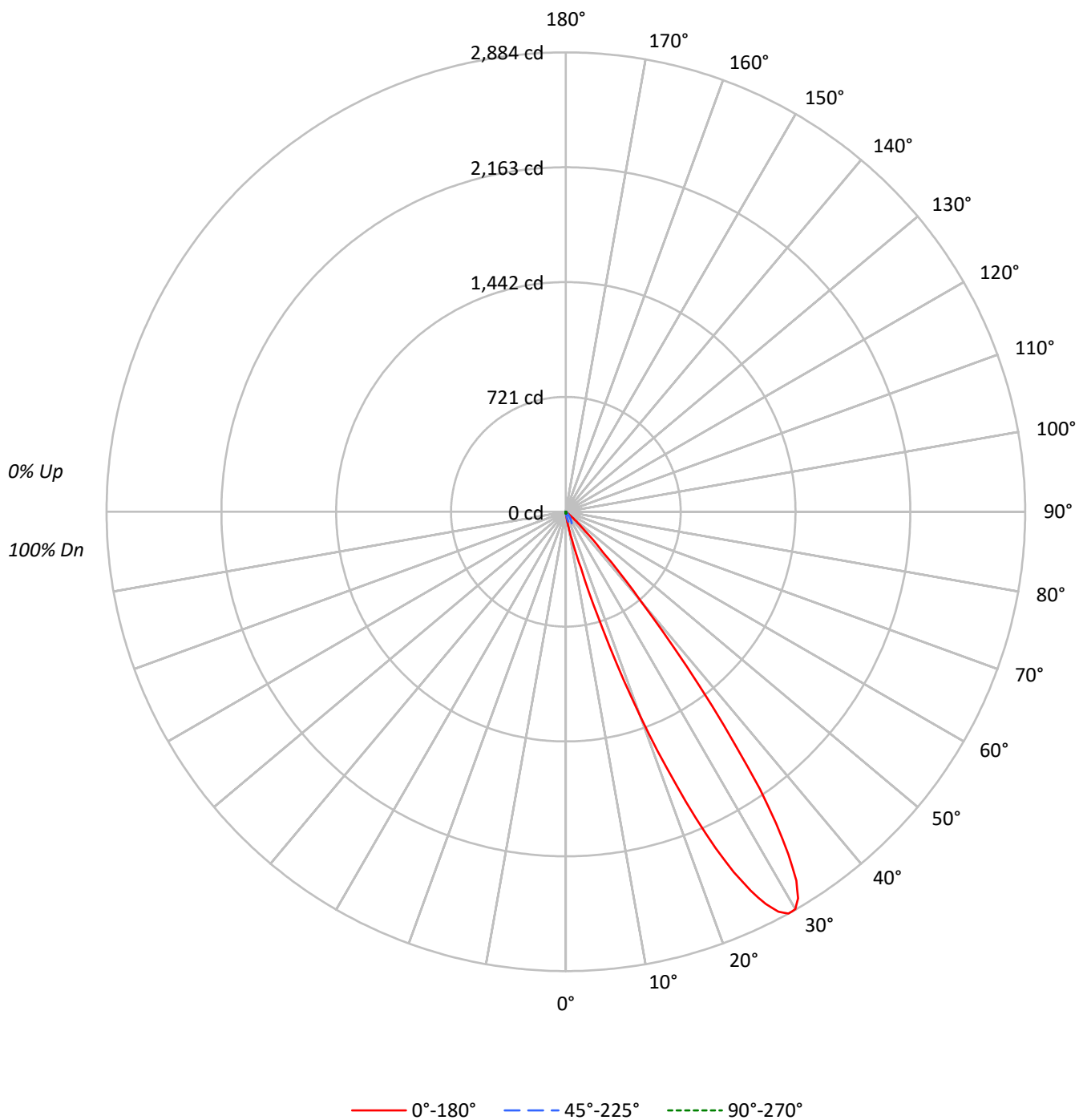
Lumens per Lamp: N/A
Luminaire Lumens: 314.9 lumens
Efficiency: N/A
Efficacy: 21.7 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1343539

CATALOG NUMBER: P3A13R159827DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1343539

CATALOG NUMBER: P3A13R159827DE010 E3A301GPH

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	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2281	2281	2281	2281	2281
5°	4931	3632	2157	1145	947
10°	21843	6880	1715	468	334
15°	82566	15937	1180	204	136
20°	317548	22449	723	70	70
25°	603857	21050	363	0	0
30°	729454	16990	152	0	0
35°	568926	11564	80	0	0
40°	207618	5696	86	0	86
45°	53308	1706	93	0	186
50°	9006	205	102	102	307
55°	1185	0	229	344	573
60°	132	132	395	526	789
65°	156	156	623	778	934
70°	192	192	769	769	962
75°	254	254	1017	763	1017
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 53308 cd/sqm

TEST NUMBER: P1343539

CATALOG NUMBER: P3A13R159827DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.5
10°-20°	24.1	7.7
20°-30°	133.9	42.5
30°-40°	129.3	41.1
40°-50°	22.5	7.1
50°-60°	1.6	0.5
60°-70°	0.9	0.3
70°-80°	0.8	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°	159.4	50.6
0°-40°	288.8	91.7
0°-60°	312.9	99.3
0°-90°	314.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	314.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	22	16	10	5	4	4
15°	364	70	5	1	1	162
25°	2496	87	2	0	0	1116
35°	2125	43	0	0	0	1222
45°	172	6	0	0	1	185
55°	3	0	1	1	2	6
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	

TEST NUMBER: P1343539

CATALOG NUMBER: P3A13R159827DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4
2.5°	15.3	14.7	15.0	15.0	15.0	15.0	15.0	14.4	14.4	14.7	13.2
5°	22.4	22.4	22.1	22.4	22.4	22.1	21.4	21.1	21.1	20.5	16.5
7.5°	44.7	44.1	44.1	43.5	40.4	39.5	38.9	37.4	34.6	34.0	21.4
10°	98.1	98.4	96.2	93.5	93.2	88.6	87.0	84.3	79.1	73.8	30.9
12.5°	178.0	174.0	168.8	169.1	160.3	157.2	150.1	142.5	134.5	126.2	50.9
15°	363.7	352.4	359.1	342.6	323.9	302.7	281.3	254.3	231.3	206.8	70.2
17.5°	766.0	777.1	758.4	687.6	644.1	592.9	520.9	451.4	391.9	344.1	85.8
20°	1360.8	1377.0	1313.6	1252.0	1146.3	1031.1	911.0	774.9	644.7	531.9	96.2
21°	1609.3	1599.5	1573.4	1474.8	1352.8	1219.2	1072.1	922.0	764.2	617.7	97.1
22°	1849.5	1854.1	1793.5	1690.2	1563.3	1415.3	1235.8	1050.4	880.3	687.6	95.6
23°	2088.8	2103.5	2023.3	1926.4	1766.8	1599.8	1392.0	1192.0	981.8	767.6	92.5
24°	2310.4	2300.3	2246.0	2124.1	1953.4	1757.9	1542.2	1299.5	1065.1	835.9	90.1
25°	2495.8	2494.5	2409.3	2290.8	2095.6	1878.9	1641.2	1387.5	1136.5	882.2	87.0
26°	2647.4	2622.6	2555.5	2410.9	2218.1	1989.6	1722.4	1451.5	1176.6	905.5	84.0
27°	2764.5	2746.7	2656.6	2506.2	2304.9	2052.1	1774.5	1483.4	1195.0	913.1	80.0
28°	2843.2	2823.9	2728.0	2573.0	2352.7	2091.3	1802.0	1496.8	1195.0	905.8	76.3
29°	2884.0	2857.6	2762.0	2596.0	2363.7	2095.9	1795.3	1483.7	1176.3	883.1	72.0
30°	2880.9	2848.1	2747.9	2575.1	2330.9	2058.2	1757.6	1436.2	1134.0	849.4	67.1
31°	2831.3	2794.5	2682.7	2504.6	2263.2	1987.1	1686.5	1372.4	1076.1	805.6	62.2
32°	2730.5	2683.9	2574.8	2397.4	2159.0	1880.8	1583.3	1274.1	989.4	741.5	57.0
33°	2566.2	2519.4	2402.3	2235.9	2018.1	1746.0	1446.3	1168.4	890.8	665.2	52.7
34°	2360.6	2317.7	2216.9	2049.3	1840.3	1575.3	1288.8	1022.2	788.4	589.5	48.1
35°	2125.3	2057.0	1965.7	1833.0	1629.2	1362.6	1118.7	886.2	683.0	510.2	43.2
36°	1806.9	1819.2	1722.4	1560.0	1391.1	1182.2	948.1	738.8	571.2	434.8	38.9
37°	1524.7	1505.4	1443.8	1318.2	1171.1	963.7	794.5	626.3	480.5	367.7	34.3
38°	1230.0	1234.2	1173.9	1077.4	931.5	792.4	639.5	514.5	402.0	312.9	30.0
39°	962.8	959.4	943.1	853.7	721.6	630.3	518.1	426.5	334.9	263.8	25.4
40°	725.3	730.8	692.8	638.9	562.0	486.9	412.7	340.1	277.0	222.5	19.9
42.5°	352.7	361.3	336.1	322.3	288.3	258.9	218.5	178.3	151.7	131.1	8.9
45°	171.9	167.0	164.9	158.1	150.1	134.2	118.9	102.0	89.2	76.9	5.5
47.5°	87.9	85.5	85.5	82.7	80.0	74.8	67.1	61.6	55.5	47.8	2.1
50°	26.4	26.0	25.7	26.0	25.1	26.0	26.7	27.0	24.5	24.2	0.6
52.5°	10.4	10.7	10.4	11.3	11.3	11.0	11.3	11.0	10.7	9.5	0.0
55°	3.1	3.1	3.1	3.1	3.1	3.1	3.4	3.7	3.4	3.7	0.0
57.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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



TEST NUMBER: P1343539

CATALOG NUMBER: P3A13R159827DE010 E3A301GPH

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

TEST NUMBER: P1343539

CATALOG NUMBER: P3A13R159827DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	10.4	10.4	10.4	10.4	10.4	10.4
2.5°	12.3	10.7	8.9	7.4	6.7	6.4
5°	13.2	9.8	6.7	5.2	4.6	4.3
7.5°	14.1	8.9	5.2	3.7	2.8	2.5
10°	14.7	7.7	4.0	2.1	1.5	1.5
12.5°	14.7	6.1	2.8	1.2	0.9	0.9
15°	14.4	5.2	1.8	0.9	0.6	0.6
17.5°	14.1	4.0	1.2	0.6	0.3	0.6
20°	13.2	3.1	0.6	0.3	0.3	0.3
21°	12.9	2.8	0.6	0.3	0.3	0.3
22°	12.3	2.5	0.3	0.0	0.3	0.3
23°	11.6	1.8	0.3	0.0	0.0	0.0
24°	10.7	1.5	0.3	0.0	0.0	0.0
25°	10.1	1.5	0.3	0.0	0.0	0.0
26°	9.5	0.9	0.0	0.0	0.0	0.0
27°	8.6	0.6	0.0	0.0	0.0	0.0
28°	8.0	0.6	0.0	0.0	0.0	0.0
29°	7.0	0.6	0.0	0.0	0.0	0.0
30°	6.1	0.6	0.0	0.0	0.0	0.0
31°	4.9	0.3	0.0	0.0	0.0	0.0
32°	4.0	0.3	0.0	0.0	0.0	0.0
33°	2.8	0.3	0.0	0.0	0.0	0.0
34°	1.8	0.3	0.0	0.0	0.0	0.0
35°	1.5	0.3	0.0	0.0	0.0	0.0
36°	0.9	0.3	0.0	0.0	0.0	0.3
37°	0.9	0.3	0.0	0.0	0.0	0.3
38°	0.6	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	0.6
45°	0.0	0.3	0.0	0.0	0.3	0.6
47.5°	0.0	0.3	0.0	0.0	0.6	0.6
50°	0.0	0.3	0.3	0.3	0.6	0.9
52.5°	0.0	0.6	0.3	0.6	0.9	1.2
55°	0.3	0.6	0.6	0.9	1.2	1.5
57.5°	0.3	0.9	0.9	1.2	1.5	1.5
60°	0.6	0.9	1.2	1.2	1.8	1.8
62.5°	0.6	1.2	1.2	1.2	1.8	1.8
65°	0.6	1.2	1.2	1.5	1.8	1.8
67.5°	0.6	1.2	1.2	1.2	1.5	1.8
70°	0.6	1.2	0.9	1.2	1.5	1.5
72.5°	0.6	1.2	0.9	0.9	1.2	1.5
75°	0.6	1.2	0.9	0.9	1.2	1.2
77.5°	0.6	0.9	0.9	0.6	0.9	0.9
80°	0.6	0.9	0.6	0.6	0.9	0.9



TEST NUMBER: P1343539

CATALOG NUMBER: P3A13R159827DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.9	0.6	0.3	0.6	0.6
85°	0.6	0.9	0.6	0.3	0.3	0.3
87.5°	0.6	0.9	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)