

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: P1343475

Luminaire Tested: P3A13R159727DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343475
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: P3A13R159727DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

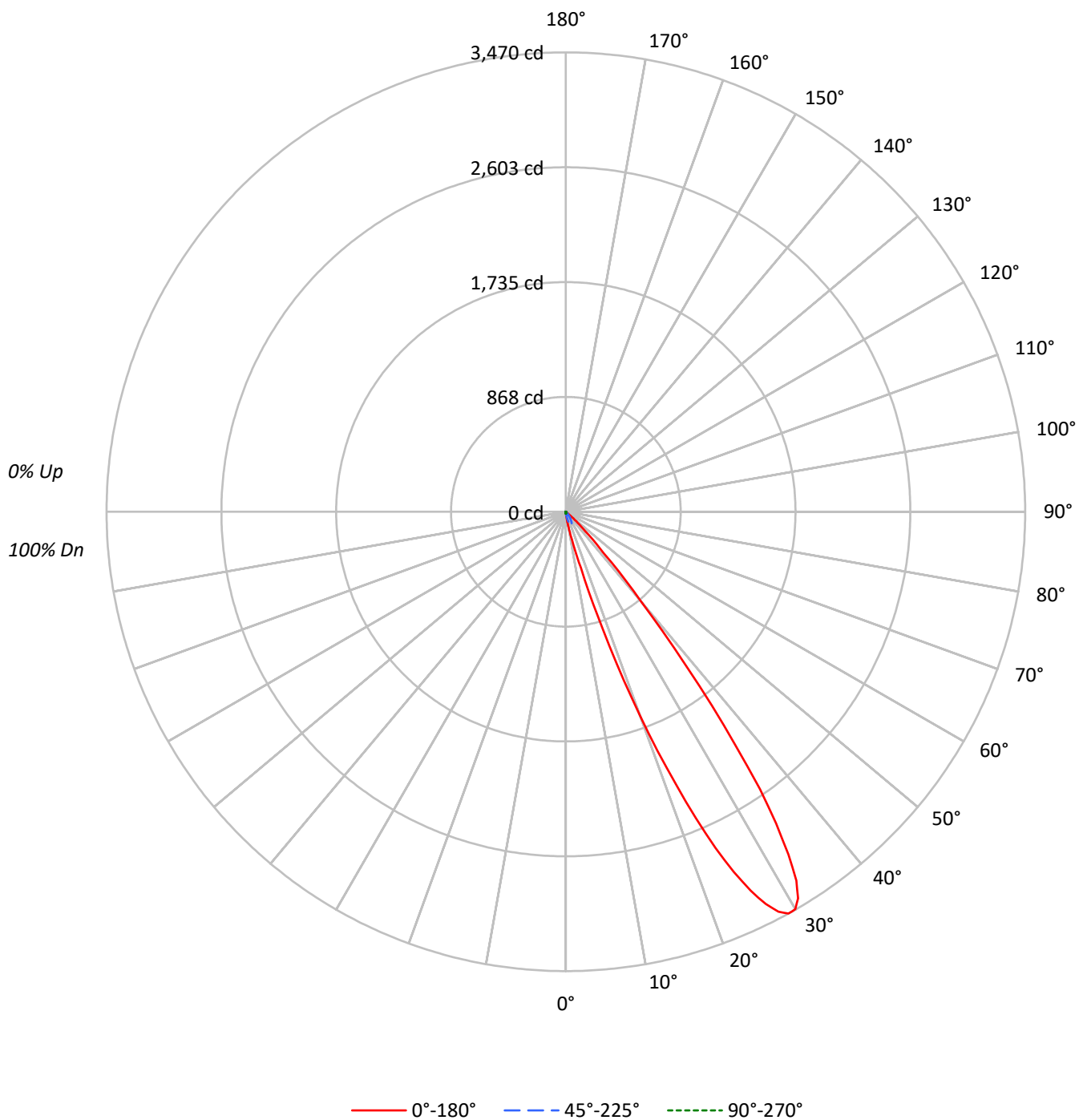
Lumens per Lamp: N/A
Luminaire Lumens: 379.0 lumens
Efficiency: N/A
Efficacy: 26.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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

TEST NUMBER: P1343475

CATALOG NUMBER: P3A13R159727DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1343475

CATALOG NUMBER: P3A13R159727DE010 E3A301GPH

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°	2741	2741	2741	2741	2741
5°	5921	4380	2597	1387	1145
10°	26274	8283	2049	579	401
15°	99342	19160	1430	250	159
20°	382070	27022	863	93	93
25°	726526	25332	436	0	0
30°	877679	20434	177	0	0
35°	684516	13920	107	0	0
40°	249782	6870	115	0	115
45°	64131	2047	124	0	217
50°	10814	239	136	136	375
55°	1415	0	268	421	688
60°	175	175	482	658	965
65°	208	208	778	934	1141
70°	256	256	962	962	1154
75°	339	339	1271	932	1271
80°	0	505	1389	884	1389
85°	0	1006	2768	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 64131 cd/sqm

TEST NUMBER: P1343475

CATALOG NUMBER: P3A13R159727DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.5
10°-20°	29.0	7.7
20°-30°	161.1	42.5
30°-40°	155.6	41.1
40°-50°	27.1	7.1
50°-60°	1.9	0.5
60°-70°	1.2	0.3
70°-80°	0.9	0.2
80°-90°	0.5	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°	191.8	50.6
0°-40°	347.5	91.7
0°-60°	376.5	99.3
0°-90°	379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	379.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	27	20	12	6	5	5
15°	438	84	6	1	1	195
25°	3003	105	2	0	0	1343
35°	2557	52	0	0	0	1471
45°	207	7	0	0	1	222
55°	4	0	1	1	2	7
65°	0	0	2	2	2	0
75°	0	0	2	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1343475

CATALOG NUMBER: P3A13R159727DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
2.5°	18.4	17.7	18.1	18.1	18.1	18.1	18.1	17.3	17.3	17.7	15.9
5°	26.9	26.9	26.5	26.9	26.9	26.5	25.8	25.4	25.4	24.7	19.9
7.5°	53.8	53.1	53.1	52.4	48.7	47.6	46.8	45.0	41.7	40.9	25.8
10°	118.0	118.3	115.8	112.4	112.1	106.5	104.7	101.4	95.1	88.8	37.2
12.5°	214.2	209.4	203.1	203.5	192.8	189.1	180.6	171.4	161.8	151.9	61.2
15°	437.6	424.0	432.1	412.2	389.7	364.2	338.4	306.0	278.3	248.9	84.4
17.5°	921.7	935.0	912.5	827.3	774.9	713.4	626.7	543.1	471.5	414.0	103.2
20°	1637.3	1656.8	1580.5	1506.4	1379.2	1240.6	1096.1	932.4	775.7	640.0	115.8
21°	1936.3	1924.5	1893.1	1774.4	1627.7	1466.9	1290.0	1109.3	919.5	743.2	116.9
22°	2225.3	2230.8	2157.8	2033.6	1881.0	1702.9	1486.9	1263.8	1059.2	827.3	115.0
23°	2513.2	2530.9	2434.3	2317.8	2125.8	1924.8	1674.9	1434.1	1181.2	923.5	111.3
24°	2779.8	2767.6	2702.4	2555.6	2350.3	2115.1	1855.5	1563.5	1281.5	1005.7	108.4
25°	3002.8	3001.4	2898.9	2756.2	2521.3	2260.7	1974.6	1669.3	1367.4	1061.4	104.7
26°	3185.3	3155.5	3074.7	2900.7	2668.8	2393.8	2072.3	1746.4	1415.7	1089.4	101.0
27°	3326.2	3304.8	3196.4	3015.4	2773.1	2469.0	2135.0	1784.7	1437.8	1098.6	96.2
28°	3420.9	3397.7	3282.3	3095.7	2830.7	2516.2	2168.2	1801.0	1437.8	1089.8	91.8
29°	3469.9	3438.2	3323.2	3123.4	2843.9	2521.7	2160.0	1785.1	1415.3	1062.5	86.6
30°	3466.3	3426.8	3306.2	3098.3	2804.5	2476.4	2114.7	1728.0	1364.5	1022.0	80.7
31°	3406.5	3362.3	3227.7	3013.5	2723.0	2390.8	2029.2	1651.3	1294.8	969.2	74.8
32°	3285.2	3229.2	3097.9	2884.5	2597.7	2262.9	1904.9	1532.9	1190.4	892.2	68.6
33°	3087.6	3031.2	2890.4	2690.2	2428.1	2100.7	1740.1	1405.7	1071.7	800.4	63.4
34°	2840.2	2788.6	2667.3	2465.7	2214.2	1895.3	1550.6	1229.9	948.6	709.3	57.9
35°	2557.1	2474.9	2365.0	2205.4	1960.2	1639.5	1346.0	1066.2	821.8	613.8	52.0
36°	2174.1	2188.8	2072.3	1876.9	1673.8	1422.3	1140.7	888.9	687.2	523.1	46.8
37°	1834.5	1811.3	1737.2	1586.0	1409.1	1159.5	956.0	753.6	578.1	442.4	41.3
38°	1479.8	1485.0	1412.4	1296.2	1120.8	953.4	769.4	619.0	483.7	376.4	36.1
39°	1158.4	1154.3	1134.8	1027.1	868.2	758.4	623.4	513.2	403.0	317.4	30.6
40°	872.6	879.3	833.6	768.7	676.1	585.8	496.6	409.2	333.3	267.7	24.0
42.5°	424.3	434.7	404.4	387.8	346.9	311.5	262.9	214.6	182.5	157.8	10.7
45°	206.8	200.9	198.3	190.2	180.6	161.5	143.0	122.8	107.3	92.5	6.6
47.5°	105.8	102.9	102.9	99.5	96.2	90.0	80.7	74.1	66.7	57.5	2.6
50°	31.7	31.3	31.0	31.3	30.2	31.3	32.1	32.4	29.5	29.1	0.7
52.5°	12.5	12.9	12.5	13.6	13.6	13.3	13.6	13.3	12.9	11.4	0.0
55°	3.7	3.7	3.7	3.7	3.7	3.7	4.1	4.4	4.1	4.4	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°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



TEST NUMBER: P1343475

CATALOG NUMBER: P3A13R159727DE010 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	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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: P1343475

CATALOG NUMBER: P3A13R159727DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	12.5	12.5	12.5	12.5	12.5	12.5
2.5°	14.7	12.9	10.7	8.8	8.1	7.7
5°	15.9	11.8	8.1	6.3	5.5	5.2
7.5°	17.0	10.7	6.3	4.4	3.3	2.9
10°	17.7	9.2	4.8	2.6	1.8	1.8
12.5°	17.7	7.4	3.3	1.5	1.1	1.1
15°	17.3	6.3	2.2	1.1	0.7	0.7
17.5°	17.0	4.8	1.5	0.7	0.4	0.7
20°	15.9	3.7	0.7	0.4	0.4	0.4
21°	15.5	3.3	0.7	0.4	0.4	0.4
22°	14.7	2.9	0.4	0.0	0.4	0.4
23°	14.0	2.2	0.4	0.0	0.0	0.0
24°	12.9	1.8	0.4	0.0	0.0	0.0
25°	12.2	1.8	0.4	0.0	0.0	0.0
26°	11.4	1.1	0.0	0.0	0.0	0.0
27°	10.3	0.7	0.0	0.0	0.0	0.0
28°	9.6	0.7	0.0	0.0	0.0	0.0
29°	8.5	0.7	0.0	0.0	0.0	0.0
30°	7.4	0.7	0.0	0.0	0.0	0.0
31°	5.9	0.4	0.0	0.0	0.0	0.0
32°	4.8	0.4	0.0	0.0	0.0	0.0
33°	3.3	0.4	0.0	0.0	0.0	0.0
34°	2.2	0.4	0.0	0.0	0.0	0.0
35°	1.8	0.4	0.0	0.0	0.0	0.0
36°	1.1	0.4	0.0	0.0	0.0	0.4
37°	1.1	0.4	0.0	0.0	0.0	0.4
38°	0.7	0.4	0.0	0.0	0.0	0.4
39°	0.4	0.4	0.0	0.0	0.0	0.4
40°	0.4	0.4	0.0	0.0	0.0	0.4
42.5°	0.0	0.4	0.0	0.0	0.4	0.7
45°	0.0	0.4	0.0	0.0	0.4	0.7
47.5°	0.0	0.4	0.0	0.0	0.7	0.7
50°	0.0	0.4	0.4	0.4	0.7	1.1
52.5°	0.0	0.7	0.4	0.7	1.1	1.5
55°	0.4	0.7	0.7	1.1	1.5	1.8
57.5°	0.4	1.1	1.1	1.5	1.8	1.8
60°	0.7	1.1	1.5	1.5	2.2	2.2
62.5°	0.7	1.5	1.5	1.5	2.2	2.2
65°	0.7	1.5	1.5	1.8	2.2	2.2
67.5°	0.7	1.5	1.5	1.5	1.8	2.2
70°	0.7	1.5	1.1	1.5	1.8	1.8
72.5°	0.7	1.5	1.1	1.1	1.5	1.8
75°	0.7	1.5	1.1	1.1	1.5	1.5
77.5°	0.7	1.1	1.1	0.7	1.1	1.1
80°	0.7	1.1	0.7	0.7	1.1	1.1



TEST NUMBER: P1343475

CATALOG NUMBER: P3A13R159727DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.7	1.1	0.7	0.4	0.7	0.7
85°	0.7	1.1	0.7	0.4	0.4	0.4
87.5°	0.7	1.1	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)