

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: P1345959

Luminaire Tested: P3A13R409035DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R409035DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

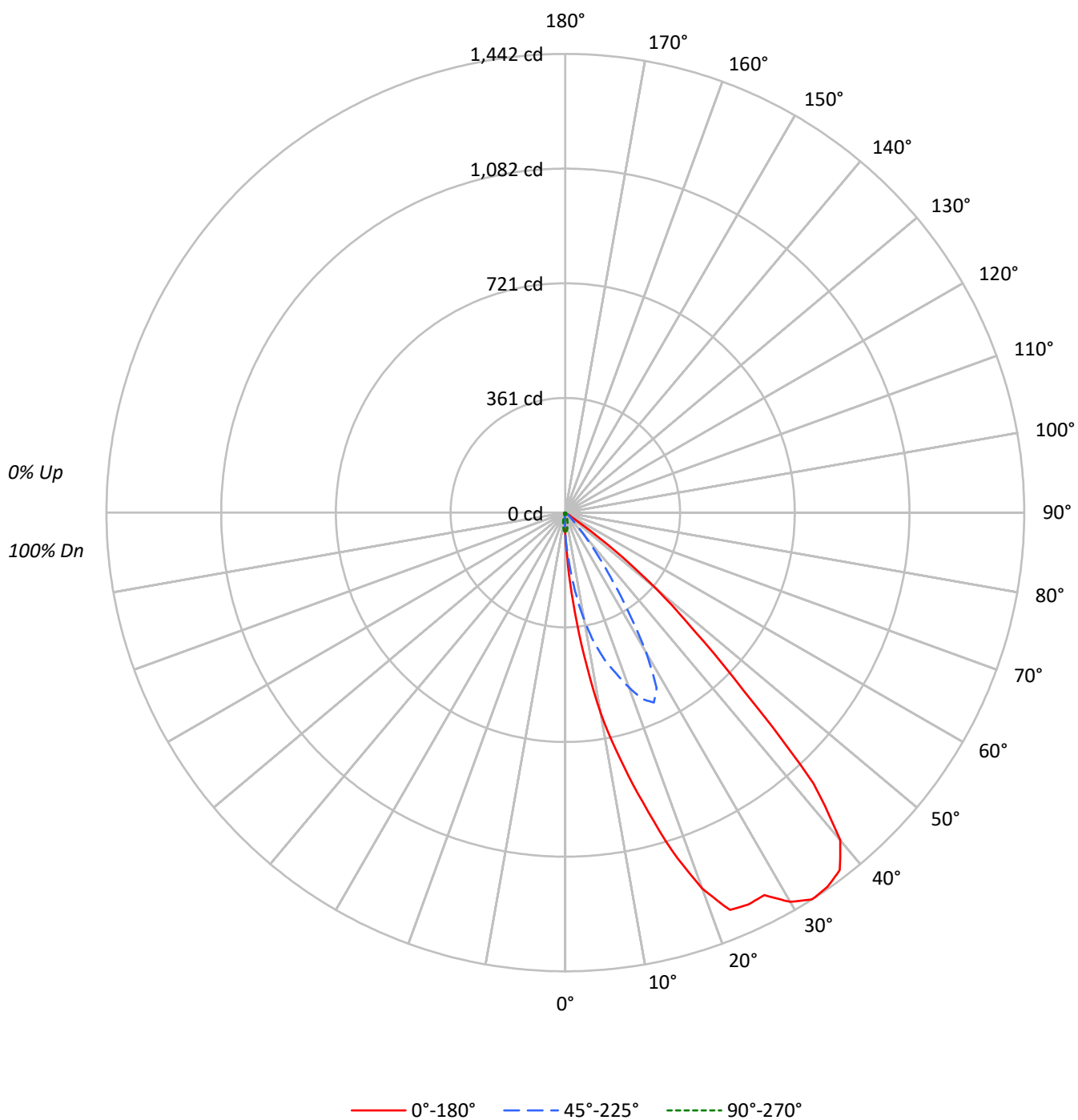
Lumens per Lamp: N/A
Luminaire Lumens: 531.9 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88		92	89	86		89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70		78	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	80	70	63	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	56	52	62	56	51		61	55	51		59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46		56	50	46		55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42		52	46	42		51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13793	13793	13793	13793	13793
5°	62249	39687	12371	4755	3456
10°	142772	76685	8706	1692	1291
15°	214258	108809	5403	908	817
20°	293372	136395	3150	513	630
25°	328882	159372	1621	436	532
30°	357726	128653	684	329	557
35°	384433	65852	241	482	723
40°	384578	26249	115	515	887
45°	245545	8776	279	837	1240
50°	127450	1058	443	1058	1535
55°	11010	153	497	1376	1873
60°	395	175	570	1579	2149
65°	467	208	934	1608	2335
70°	256	256	1154	1731	2308
75°	339	339	1101	1864	2626
80°	505	505	1642	1642	2273
85°	0	1006	3271	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 245545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	2.3
10°-20°	72.0	13.5
20°-30°	157.7	29.6
30°-40°	179.6	33.8
40°-50°	94.8	17.8
50°-60°	11.2	2.1
60°-70°	2.0	0.4
70°-80°	1.6	0.3
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°	242.0	45.5
0°-40°	421.6	79.3
0°-60°	527.5	99.2
0°-90°	531.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	63	63	63	63	63	
5°	283	180	56	22	16	38
15°	944	479	24	4	4	278
25°	1359	659	7	2	2	626
35°	1436	246	1	2	3	890
45°	792	28	1	3	4	638
55°	29	0	1	4	5	89
65°	1	0	2	3	4	1
75°	0	0	1	2	3	0
85°	0	0	1	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
2.5°	140.3	140.3	139.8	135.8	135.3	134.9	127.7	125.9	117.4	111.5	85.0
5°	282.8	276.5	276.1	268.9	256.7	240.6	230.2	213.6	197.4	180.3	104.8
7.5°	450.5	455.9	441.1	433.4	406.5	387.1	357.5	331.4	295.0	260.8	121.0
10°	641.2	631.7	616.9	602.1	572.8	538.2	494.2	447.8	395.2	344.4	129.9
12.5°	790.0	777.9	768.9	748.6	719.9	675.4	622.7	560.7	491.0	417.7	129.5
15°	943.8	931.6	911.4	893.4	850.7	800.8	743.7	661.9	576.4	479.3	120.1
17.5°	1112.9	1097.1	1074.6	1047.2	1005.8	950.5	878.1	778.3	657.4	529.7	103.0
20°	1257.2	1247.7	1225.3	1192.9	1152.4	1098.5	1014.8	904.2	756.7	584.5	81.8
22.5°	1351.6	1343.1	1327.8	1299.5	1268.9	1211.3	1134.9	1013.5	839.9	634.4	62.0
25°	1359.3	1355.7	1351.6	1342.2	1323.7	1282.8	1208.2	1077.3	891.6	658.7	45.9
27.5°	1355.2	1353.9	1353.0	1348.0	1335.9	1295.4	1219.0	1086.8	884.9	620.9	33.7
30°	1412.8	1408.7	1406.5	1390.3	1358.4	1295.9	1196.0	1036.0	786.4	508.1	24.3
32.5°	1442.0	1441.1	1438.8	1423.1	1378.1	1296.8	1157.4	913.2	623.6	366.9	16.6
35°	1436.1	1431.6	1423.6	1394.3	1331.8	1229.8	1032.4	729.3	450.1	246.0	10.8
37.5°	1416.4	1406.0	1390.3	1337.7	1254.5	1115.1	837.2	536.9	306.2	159.2	6.3
40°	1343.5	1329.6	1304.8	1240.5	1131.3	919.1	619.2	362.9	201.0	91.7	1.8
42.5°	1155.1	1137.1	1119.1	1047.2	922.2	685.2	407.4	224.4	114.7	50.4	0.4
45°	791.8	769.3	744.6	692.4	592.2	415.0	242.4	126.3	59.4	28.3	0.4
47.5°	549.9	539.6	496.4	429.9	329.6	219.9	125.4	62.0	31.5	13.0	0.4
50°	373.6	362.0	311.6	247.3	175.4	105.2	57.6	31.0	13.9	3.1	0.4
52.5°	196.0	181.7	149.7	114.2	71.0	44.1	25.2	13.5	4.0	0.4	0.4
55°	28.8	26.5	21.6	17.5	15.7	12.1	7.2	3.1	0.4	0.4	0.9
57.5°	0.9	0.9	0.9	0.9	1.3	1.3	0.9	0.4	0.4	0.4	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
67.5°	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.3
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9
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):

	90°	112.5°	135°	157.5°	180°
0°	62.9	62.9	62.9	62.9	62.9
2.5°	62.0	45.9	35.5	30.6	30.1
5°	56.2	32.8	21.6	16.6	15.7
7.5°	47.7	22.9	12.6	9.0	8.5
10°	39.1	15.7	7.6	6.3	5.8
12.5°	31.0	10.3	5.4	4.9	4.5
15°	23.8	6.7	4.0	3.6	3.6
17.5°	18.0	4.5	3.1	3.1	3.1
20°	13.5	3.1	2.2	2.7	2.7
22.5°	9.4	2.2	1.8	2.2	2.2
25°	6.7	1.8	1.8	2.2	2.2
27.5°	4.5	1.3	1.3	1.8	2.2
30°	2.7	0.9	1.3	1.8	2.2
32.5°	1.3	0.9	1.3	2.2	2.2
35°	0.9	1.3	1.8	2.2	2.7
37.5°	0.4	1.3	1.8	2.7	2.7
40°	0.4	1.3	1.8	2.7	3.1
42.5°	0.9	1.8	2.2	3.1	3.6
45°	0.9	1.8	2.7	3.6	4.0
47.5°	0.9	1.8	3.1	4.0	4.0
50°	1.3	2.2	3.1	4.0	4.5
52.5°	1.3	2.2	3.1	4.5	4.9
55°	1.3	2.2	3.6	4.5	4.9
57.5°	1.3	2.7	3.6	4.5	4.9
60°	1.3	2.2	3.6	4.5	4.9
62.5°	1.8	2.2	3.1	4.5	4.5
65°	1.8	2.2	3.1	4.5	4.5
67.5°	1.8	2.2	3.1	4.0	4.0
70°	1.8	2.2	2.7	3.6	3.6
72.5°	1.8	2.2	2.7	3.1	3.6
75°	1.3	1.8	2.2	2.7	3.1
77.5°	1.3	1.8	1.8	2.7	2.7
80°	1.3	1.3	1.3	1.8	1.8
82.5°	1.3	1.3	0.9	1.3	1.3
85°	1.3	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)