

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: P1345047

Luminaire Tested: P3A13R309827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A13R309827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

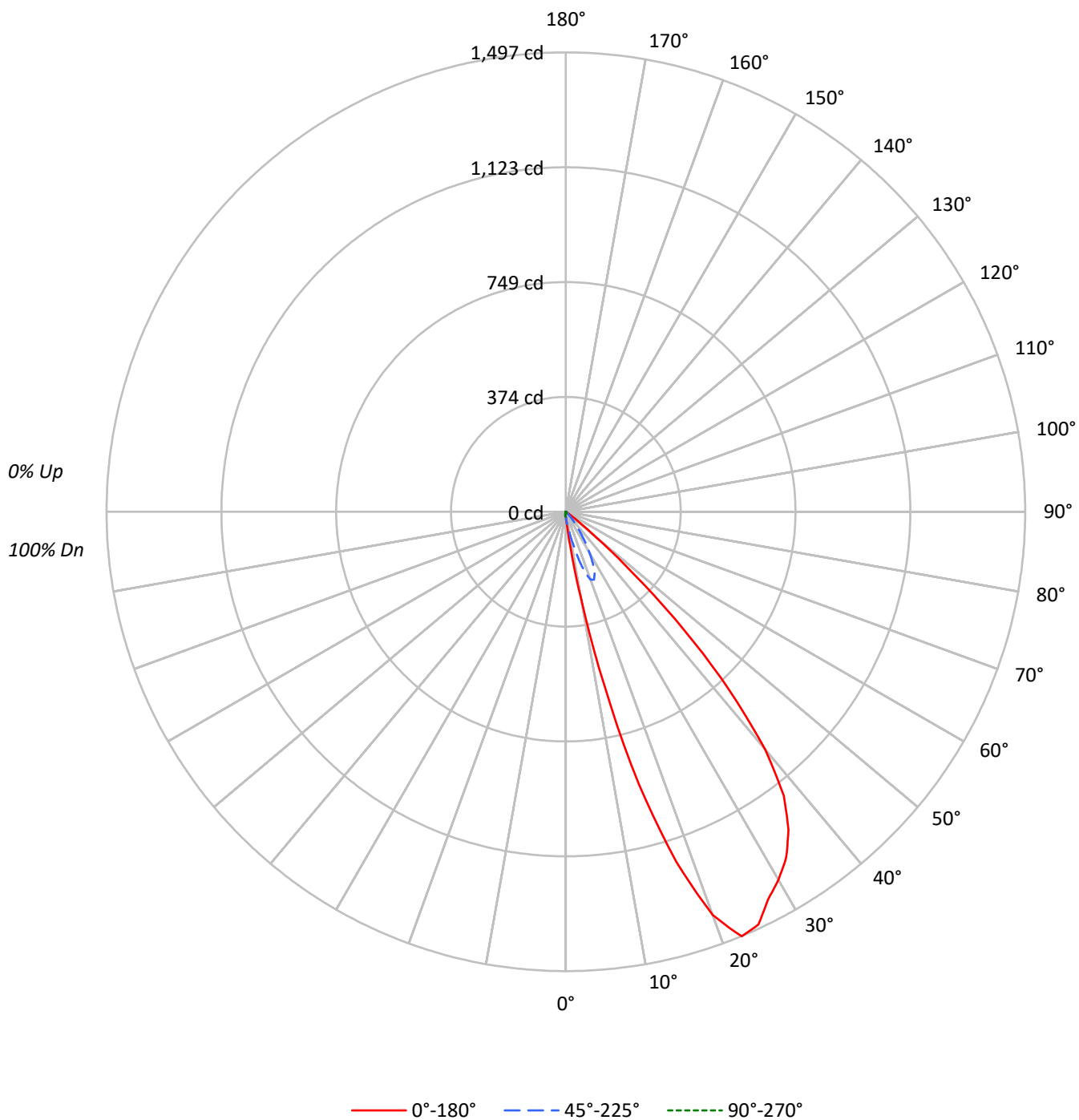
Lumens per Lamp: N/A
Luminaire Lumens: 353.0 lumens
Efficiency: N/A
Efficacy: 24.3 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	95	92	103	98	94	90	95	92	88		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71	66	63	61
6	81	71	64	58	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	67	55	48	43	65	55	48	43	53	47	43		52	47	43		52	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3684	3684	3684	3684	3684
5°	11072	7374	3478	1563	1277
10°	64127	15653	2739	713	512
15°	208628	35505	1907	136	68
20°	326438	54955	1213	0	0
25°	359150	53689	629	0	0
30°	350788	38715	253	0	0
35°	338577	22031	80	0	0
40°	288712	9332	0	0	0
45°	169444	3504	93	0	93
50°	41142	648	102	102	341
55°	3594	0	229	382	497
60°	132	0	263	439	702
65°	156	156	519	519	830
70°	192	192	641	641	833
75°	0	254	847	847	847
80°	0	379	1263	758	758
85°	0	755	2516	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 169444 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.1	0.9
10°-20°	48.5	13.7
20°-30°	123.3	34.9
30°-40°	122.9	34.8
40°-50°	49.8	14.1
50°-60°	3.4	1.0
60°-70°	0.8	0.2
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°	174.9	49.5
0°-40°	297.8	84.4
0°-60°	351.0	99.4
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°	17	17	17	17	17	
5°	50	34	16	7	6	12
15°	919	156	8	1	0	267
25°	1484	222	3	0	0	670
35°	1265	82	0	0	0	775
45°	546	11	0	0	0	417
55°	9	0	1	1	1	24
65°	0	0	1	1	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°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
2.5°	27.7	28.1	28.1	27.4	27.1	27.1	26.1	25.8	24.8	23.9	20.6
5°	50.3	49.4	48.1	48.1	45.2	43.5	41.3	38.7	36.8	33.5	23.9
7.5°	114.2	106.4	104.2	101.3	90.3	81.6	71.6	62.9	54.8	48.1	26.5
10°	288.0	272.9	260.3	234.8	202.9	172.2	143.9	111.0	88.4	70.3	28.4
12.5°	580.3	560.0	535.8	489.3	429.7	353.2	285.5	213.2	149.7	103.5	29.0
15°	919.0	884.5	846.7	787.7	690.0	580.3	458.0	342.9	240.3	156.4	28.4
17.5°	1195.1	1181.5	1125.7	1045.1	925.4	784.1	633.5	476.1	324.2	204.8	26.5
20°	1398.9	1389.6	1322.2	1236.4	1101.5	939.6	748.3	559.3	382.6	235.5	23.5
22.5°	1497.3	1495.7	1447.0	1359.3	1216.4	1032.8	822.2	607.4	400.6	239.7	19.7
25°	1484.4	1490.2	1462.5	1397.3	1260.2	1071.2	844.1	607.4	387.4	221.9	16.5
27.5°	1425.7	1429.6	1412.2	1362.2	1234.4	1043.5	813.5	568.4	349.0	190.6	13.5
30°	1385.4	1387.0	1365.4	1311.9	1176.4	980.3	741.2	496.1	291.0	152.9	10.0
32.5°	1336.4	1336.0	1310.9	1249.6	1100.3	891.6	649.6	410.0	223.5	116.1	5.8
35°	1264.8	1256.7	1222.5	1151.9	986.7	772.2	532.5	312.2	161.0	82.3	3.5
37.5°	1166.4	1145.4	1097.0	1002.5	827.4	605.4	394.8	219.3	110.0	54.5	2.3
40°	1008.6	986.4	920.6	805.8	625.8	435.8	266.1	142.9	69.4	32.6	1.3
42.5°	790.9	775.8	687.1	572.5	413.2	278.0	160.0	84.5	39.0	18.7	0.3
45°	546.4	526.7	457.1	360.0	248.0	154.2	89.7	44.2	22.3	11.3	0.0
47.5°	301.6	277.4	237.1	186.4	124.8	81.0	45.2	23.9	12.6	5.5	0.0
50°	120.6	119.7	95.2	67.7	47.7	36.8	22.6	12.9	6.5	1.9	0.3
52.5°	42.3	42.3	36.4	29.7	23.2	16.8	11.3	6.1	2.3	0.6	0.3
55°	9.4	10.3	9.7	9.0	8.7	7.4	4.8	2.3	0.6	0.0	0.3
57.5°	1.0	1.0	1.0	1.3	1.6	1.6	1.3	0.6	0.0	0.0	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.6
62.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.6
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
75°	0.0	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	1.0
77.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6
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°	16.8	16.8	16.8	16.8	16.8
2.5°	16.8	13.2	11.0	9.7	9.4
5°	15.8	10.0	7.1	6.1	5.8
7.5°	14.2	7.4	4.8	3.9	3.5
10°	12.3	5.5	3.2	2.3	2.3
12.5°	10.3	4.2	1.9	1.0	0.6
15°	8.4	2.6	0.6	0.3	0.3
17.5°	6.5	1.6	0.0	0.0	0.0
20°	5.2	0.6	0.0	0.0	0.0
22.5°	3.9	0.3	0.0	0.0	0.0
25°	2.6	0.0	0.0	0.0	0.0
27.5°	1.6	0.0	0.0	0.0	0.0
30°	1.0	0.0	0.0	0.0	0.0
32.5°	0.3	0.0	0.0	0.0	0.0
35°	0.3	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.3	0.0	0.0	0.3	0.3
47.5°	0.3	0.3	0.3	0.6	0.6
50°	0.3	0.3	0.3	0.6	1.0
52.5°	0.6	0.3	0.6	1.0	1.0
55°	0.6	0.6	1.0	1.3	1.3
57.5°	0.6	0.6	1.0	1.3	1.3
60°	0.6	0.6	1.0	1.3	1.6
62.5°	1.0	1.0	1.0	1.3	1.3
65°	1.0	1.0	1.0	1.3	1.6
67.5°	1.0	1.0	1.0	1.3	1.6
70°	1.0	1.0	1.0	1.3	1.3
72.5°	1.3	1.0	1.0	1.3	1.3
75°	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	1.0	0.6	1.0	1.0
80°	1.0	0.6	0.6	0.6	0.6
82.5°	1.0	0.6	0.6	0.6	0.6
85°	1.0	0.6	0.3	0.3	0.3
87.5°	1.0	0.6	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)