

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: P1340041

Luminaire Tested: P3A09R159840DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340041
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: P3A09R159840DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

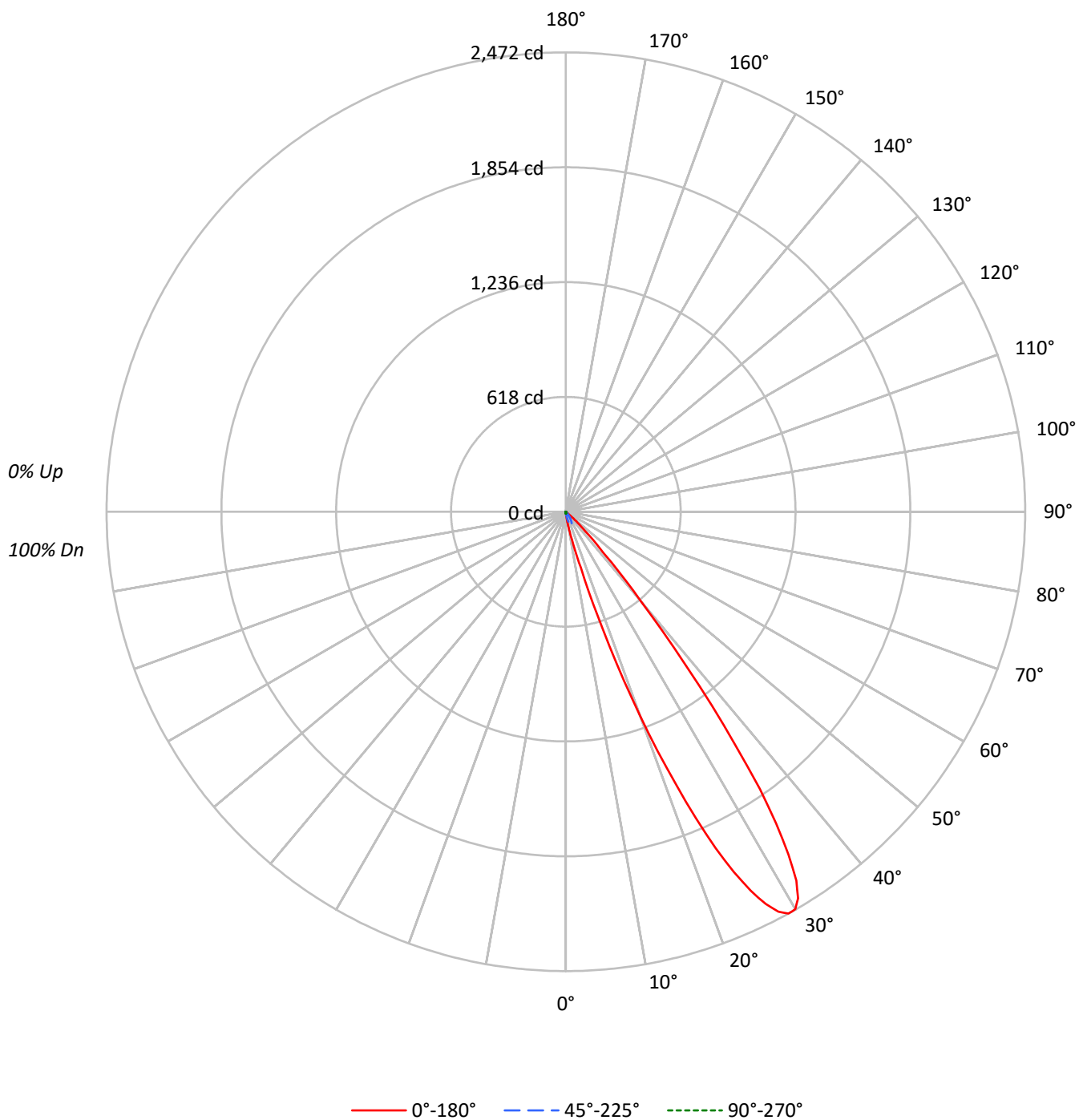
Lumens per Lamp: N/A
Luminaire Lumens: 270.1 lumens
Efficiency: N/A
Efficacy: 24.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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
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	98	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	52	48	70	59	52	47	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°	1952	1952	1952	1952	1952
5°	4226	3126	1849	991	814
10°	18704	5901	1470	401	289
15°	70784	13644	1022	182	114
20°	272184	19252	607	70	70
25°	517578	18049	315	0	0
30°	625261	14559	127	0	0
35°	487655	9905	80	0	0
40°	177962	4895	86	0	86
45°	45679	1458	93	0	155
50°	7710	171	102	102	273
55°	994	0	191	306	497
60°	132	132	351	482	702
65°	156	156	571	675	830
70°	192	192	705	705	833
75°	254	254	932	678	932
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 45679 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	20.7	7.7
20°-30°	114.8	42.5
30°-40°	110.9	41.1
40°-50°	19.3	7.1
50°-60°	1.4	0.5
60°-70°	0.8	0.3
70°-80°	0.7	0.3
80°-90°	0.3	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°	136.7	50.6
0°-40°	247.5	91.7
0°-60°	268.2	99.3
0°-90°	270.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	270.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	19	14	8	4	4	4
15°	312	60	4	1	0	139
25°	2139	75	1	0	0	957
35°	1822	37	0	0	0	1048
45°	147	5	0	0	0	158
55°	3	0	0	1	1	5
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°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
2.5°	13.1	12.6	12.9	12.9	12.9	12.9	12.9	12.3	12.3	12.6	11.3
5°	19.2	19.2	18.9	19.2	19.2	18.9	18.4	18.1	18.1	17.6	14.2
7.5°	38.3	37.8	37.8	37.3	34.7	33.9	33.4	32.0	29.7	29.2	18.4
10°	84.0	84.3	82.5	80.1	79.8	75.9	74.6	72.2	67.8	63.3	26.5
12.5°	152.6	149.2	144.7	145.0	137.4	134.7	128.7	122.1	115.3	108.2	43.6
15°	311.8	302.0	307.8	293.6	277.6	259.5	241.1	218.0	198.3	177.3	60.1
17.5°	656.6	666.1	650.0	589.4	552.1	508.2	446.5	386.9	335.9	294.9	73.5
20°	1166.4	1180.3	1125.9	1073.2	982.5	883.8	780.8	664.2	552.6	455.9	82.5
21°	1379.4	1371.0	1348.7	1264.1	1159.6	1045.1	919.0	790.3	655.0	529.5	83.3
22°	1585.3	1589.2	1537.2	1448.7	1340.0	1213.1	1059.2	900.3	754.6	589.4	81.9
23°	1790.4	1803.0	1734.2	1651.2	1514.4	1371.3	1193.2	1021.7	841.5	657.9	79.3
24°	1980.3	1971.7	1925.2	1820.6	1674.3	1506.8	1321.9	1113.9	912.9	716.5	77.2
25°	2139.2	2138.2	2065.2	1963.5	1796.2	1610.5	1406.7	1189.2	974.1	756.1	74.6
26°	2269.2	2248.0	2190.4	2066.5	1901.3	1705.3	1476.3	1244.1	1008.5	776.1	72.0
27°	2369.6	2354.3	2277.1	2148.1	1975.6	1758.9	1521.0	1271.5	1024.3	782.7	68.5
28°	2437.1	2420.5	2338.3	2205.4	2016.6	1792.5	1544.6	1283.0	1024.3	776.4	65.4
29°	2472.0	2449.4	2367.5	2225.1	2026.0	1796.5	1538.8	1271.7	1008.3	756.9	61.7
30°	2469.4	2441.3	2355.4	2207.2	1997.9	1764.2	1506.5	1231.0	972.0	728.0	57.5
31°	2426.8	2395.3	2299.4	2146.8	1939.9	1703.2	1445.6	1176.4	922.4	690.5	53.3
32°	2340.4	2300.5	2207.0	2054.9	1850.6	1612.1	1357.1	1092.1	848.1	635.6	48.9
33°	2199.6	2159.4	2059.1	1916.5	1729.8	1496.5	1239.7	1001.5	763.5	570.2	45.2
34°	2023.4	1986.6	1900.2	1756.6	1577.4	1350.2	1104.7	876.2	675.8	505.3	41.2
35°	1821.7	1763.1	1684.8	1571.1	1396.5	1168.0	958.9	759.6	585.4	437.3	37.0
36°	1548.8	1559.3	1476.3	1337.1	1192.4	1013.3	812.6	633.2	489.6	372.7	33.4
37°	1306.9	1290.4	1237.6	1129.9	1003.8	826.0	681.0	536.8	411.8	315.2	29.4
38°	1054.2	1057.9	1006.2	923.4	798.4	679.2	548.1	441.0	344.6	268.2	25.7
39°	825.2	822.3	808.4	731.7	618.5	540.3	444.1	365.6	287.1	226.1	21.8
40°	621.7	626.4	593.8	547.6	481.7	417.3	353.8	291.5	237.4	190.7	17.1
42.5°	302.3	309.7	288.1	276.3	247.1	221.9	187.3	152.9	130.0	112.4	7.6
45°	147.3	143.1	141.3	135.5	128.7	115.0	101.9	87.5	76.4	65.9	4.7
47.5°	75.4	73.3	73.3	70.9	68.5	64.1	57.5	52.8	47.5	41.0	1.8
50°	22.6	22.3	22.1	22.3	21.5	22.3	22.8	23.1	21.0	20.7	0.5
52.5°	8.9	9.2	8.9	9.7	9.7	9.5	9.7	9.5	9.2	8.1	0.0
55°	2.6	2.6	2.6	2.6	2.6	2.6	2.9	3.2	2.9	3.2	0.0
57.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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°	8.9	8.9	8.9	8.9	8.9	8.9
2.5°	10.5	9.2	7.6	6.3	5.8	5.5
5°	11.3	8.4	5.8	4.5	3.9	3.7
7.5°	12.1	7.6	4.5	3.2	2.4	2.1
10°	12.6	6.6	3.4	1.8	1.3	1.3
12.5°	12.6	5.3	2.4	1.1	0.8	0.8
15°	12.3	4.5	1.6	0.8	0.5	0.5
17.5°	12.1	3.4	1.1	0.5	0.3	0.5
20°	11.3	2.6	0.5	0.3	0.3	0.3
21°	11.0	2.4	0.5	0.3	0.3	0.3
22°	10.5	2.1	0.3	0.0	0.3	0.3
23°	10.0	1.6	0.3	0.0	0.0	0.0
24°	9.2	1.3	0.3	0.0	0.0	0.0
25°	8.7	1.3	0.3	0.0	0.0	0.0
26°	8.1	0.8	0.0	0.0	0.0	0.0
27°	7.4	0.5	0.0	0.0	0.0	0.0
28°	6.8	0.5	0.0	0.0	0.0	0.0
29°	6.0	0.5	0.0	0.0	0.0	0.0
30°	5.3	0.5	0.0	0.0	0.0	0.0
31°	4.2	0.3	0.0	0.0	0.0	0.0
32°	3.4	0.3	0.0	0.0	0.0	0.0
33°	2.4	0.3	0.0	0.0	0.0	0.0
34°	1.6	0.3	0.0	0.0	0.0	0.0
35°	1.3	0.3	0.0	0.0	0.0	0.0
36°	0.8	0.3	0.0	0.0	0.0	0.3
37°	0.8	0.3	0.0	0.0	0.0	0.3
38°	0.5	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	0.5
45°	0.0	0.3	0.0	0.0	0.3	0.5
47.5°	0.0	0.3	0.0	0.0	0.5	0.5
50°	0.0	0.3	0.3	0.3	0.5	0.8
52.5°	0.0	0.5	0.3	0.5	0.8	1.1
55°	0.3	0.5	0.5	0.8	1.1	1.3
57.5°	0.3	0.8	0.8	1.1	1.3	1.3
60°	0.5	0.8	1.1	1.1	1.6	1.6
62.5°	0.5	1.1	1.1	1.1	1.6	1.6
65°	0.5	1.1	1.1	1.3	1.6	1.6
67.5°	0.5	1.1	1.1	1.1	1.3	1.6
70°	0.5	1.1	0.8	1.1	1.3	1.3
72.5°	0.5	1.1	0.8	0.8	1.1	1.3
75°	0.5	1.1	0.8	0.8	1.1	1.1
77.5°	0.5	0.8	0.8	0.5	0.8	0.8
80°	0.5	0.8	0.5	0.5	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.8	0.5	0.3	0.5	0.5
85°	0.5	0.8	0.5	0.3	0.3	0.3
87.5°	0.5	0.8	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)