

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: P1338899

Luminaire Tested: P3A05R409050DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338899
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: P3A05R409050DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

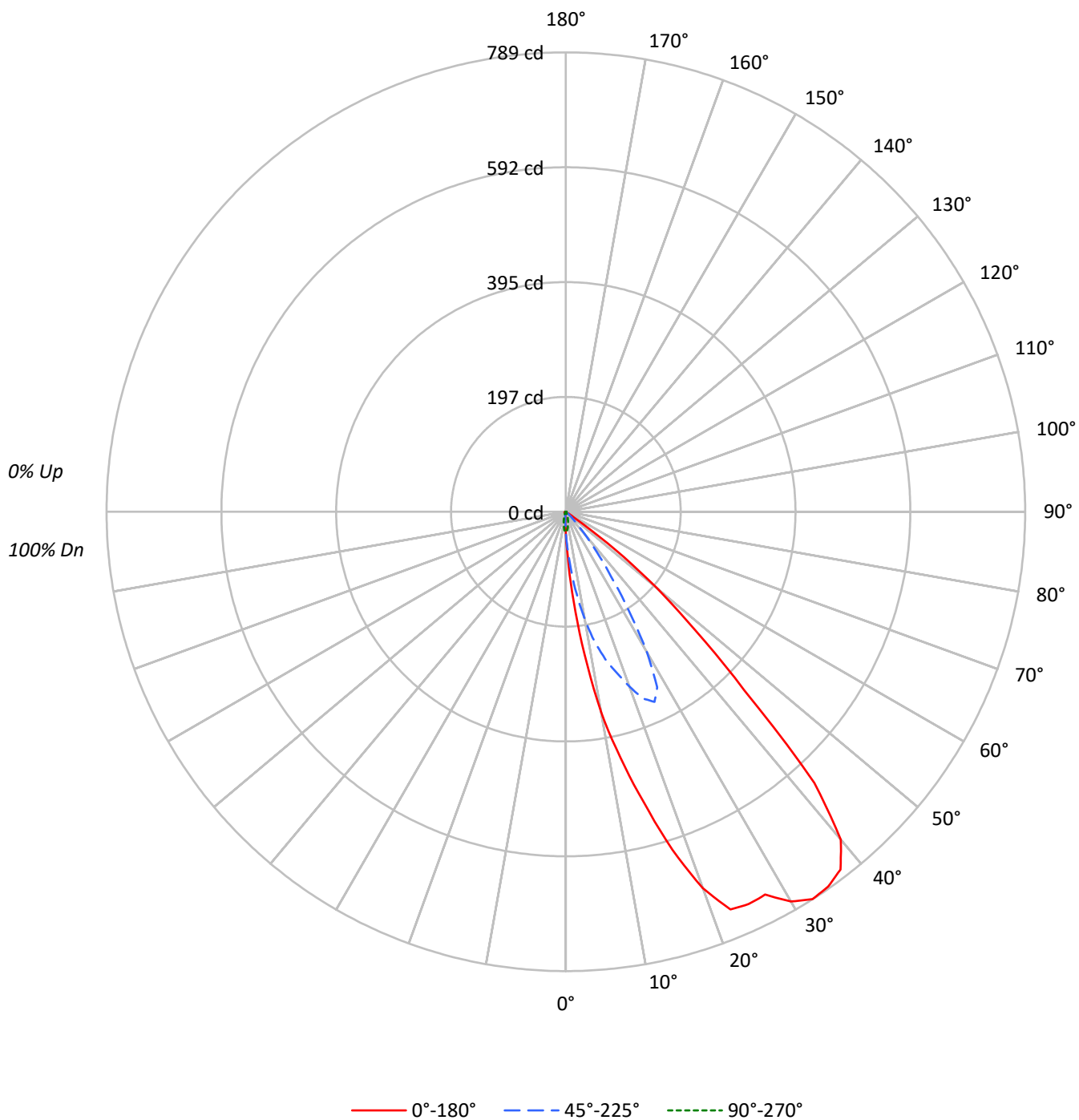
Lumens per Lamp: N/A
Luminaire Lumens: 290.9 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7543	7543	7543	7543	7543
5°	34052	21704	6758	2597	1893
10°	78088	41950	4765	935	713
15°	117186	59524	2951	499	454
20°	160477	74603	1727	280	350
25°	179889	87174	895	242	290
30°	195676	70365	380	177	304
35°	210299	36005	134	268	402
40°	210366	14370	57	286	487
45°	134309	4807	155	465	682
50°	69729	580	239	580	853
55°	6002	76	268	765	1032
60°	219	88	307	877	1184
65°	259	104	519	882	1297
70°	128	128	641	962	1282
75°	169	169	593	1017	1440
80°	253	253	884	884	1263
85°	0	503	1761	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 134309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	2.3
10°-20°	39.4	13.5
20°-30°	86.3	29.6
30°-40°	98.3	33.8
40°-50°	51.8	17.8
50°-60°	6.1	2.1
60°-70°	1.1	0.4
70°-80°	0.9	0.3
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°	132.4	45.5
0°-40°	230.6	79.3
0°-60°	288.6	99.2
0°-90°	290.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	290.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	34	34	34	34	34	
5°	155	99	31	12	9	21
15°	516	262	13	2	2	152
25°	744	360	4	1	1	343
35°	786	134	0	1	2	487
45°	433	16	0	2	2	349
55°	16	0	1	2	3	49
65°	0	0	1	2	2	0
75°	0	0	1	1	2	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°	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4	34.4
2.5°	76.7	76.7	76.5	74.3	74.0	73.8	69.8	68.9	64.2	61.0	46.5
5°	154.7	151.3	151.0	147.1	140.4	131.6	125.9	116.8	108.0	98.6	57.3
7.5°	246.4	249.4	241.3	237.1	222.3	211.8	195.5	181.3	161.3	142.6	66.2
10°	350.7	345.6	337.4	329.3	313.3	294.4	270.3	245.0	216.2	188.4	71.1
12.5°	432.1	425.5	420.6	409.5	393.8	369.4	340.6	306.7	268.6	228.5	70.8
15°	516.2	509.6	498.5	488.7	465.3	438.0	406.8	362.0	315.3	262.2	65.7
17.5°	608.7	600.1	587.8	572.8	550.2	519.9	480.3	425.7	359.6	289.7	56.3
20°	687.7	682.5	670.2	652.5	630.4	600.9	555.1	494.6	413.9	319.7	44.8
22.5°	739.3	734.6	726.3	710.8	694.1	662.6	620.8	554.4	459.4	347.0	33.9
25°	743.5	741.5	739.3	734.2	724.1	701.7	660.9	589.3	487.7	360.3	25.1
27.5°	741.3	740.5	740.1	737.4	730.7	708.6	666.8	594.5	484.0	339.7	18.4
30°	772.8	770.6	769.3	760.5	743.0	708.8	654.2	566.7	430.2	277.9	13.3
32.5°	788.8	788.3	787.0	778.4	753.8	709.3	633.1	499.5	341.1	200.7	9.1
35°	785.6	783.1	778.7	762.7	728.5	672.7	564.7	398.9	246.2	134.5	5.9
37.5°	774.7	769.1	760.5	731.7	686.2	610.0	458.0	293.7	167.5	87.1	3.4
40°	734.9	727.3	713.7	678.6	618.8	502.7	338.7	198.5	109.9	50.2	1.0
42.5°	631.8	622.0	612.2	572.8	504.4	374.8	222.8	122.7	62.7	27.5	0.2
45°	433.1	420.8	407.3	378.8	323.9	227.0	132.6	69.1	32.5	15.5	0.2
47.5°	300.8	295.1	271.5	235.1	180.3	120.3	68.6	33.9	17.2	7.1	0.2
50°	204.4	198.0	170.4	135.3	95.9	57.6	31.5	17.0	7.6	1.7	0.2
52.5°	107.2	99.4	81.9	62.5	38.9	24.1	13.8	7.4	2.2	0.2	0.2
55°	15.7	14.5	11.8	9.6	8.6	6.6	3.9	1.7	0.2	0.2	0.5
57.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.5	0.2	0.2	0.2	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
67.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.7
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.5
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°	34.4	34.4	34.4	34.4	34.4
2.5°	33.9	25.1	19.4	16.7	16.5
5°	30.7	18.0	11.8	9.1	8.6
7.5°	26.1	12.5	6.9	4.9	4.7
10°	21.4	8.6	4.2	3.4	3.2
12.5°	17.0	5.7	3.0	2.7	2.5
15°	13.0	3.7	2.2	2.0	2.0
17.5°	9.8	2.5	1.7	1.7	1.7
20°	7.4	1.7	1.2	1.5	1.5
22.5°	5.2	1.2	1.0	1.2	1.2
25°	3.7	1.0	1.0	1.2	1.2
27.5°	2.5	0.7	0.7	1.0	1.2
30°	1.5	0.5	0.7	1.0	1.2
32.5°	0.7	0.5	0.7	1.2	1.2
35°	0.5	0.7	1.0	1.2	1.5
37.5°	0.2	0.7	1.0	1.5	1.5
40°	0.2	0.7	1.0	1.5	1.7
42.5°	0.5	1.0	1.2	1.7	2.0
45°	0.5	1.0	1.5	2.0	2.2
47.5°	0.5	1.0	1.7	2.2	2.2
50°	0.7	1.2	1.7	2.2	2.5
52.5°	0.7	1.2	1.7	2.5	2.7
55°	0.7	1.2	2.0	2.5	2.7
57.5°	0.7	1.5	2.0	2.5	2.7
60°	0.7	1.2	2.0	2.5	2.7
62.5°	1.0	1.2	1.7	2.5	2.5
65°	1.0	1.2	1.7	2.5	2.5
67.5°	1.0	1.2	1.7	2.2	2.2
70°	1.0	1.2	1.5	2.0	2.0
72.5°	1.0	1.2	1.5	1.7	2.0
75°	0.7	1.0	1.2	1.5	1.7
77.5°	0.7	1.0	1.0	1.5	1.5
80°	0.7	0.7	0.7	1.0	1.0
82.5°	0.7	0.7	0.5	0.7	0.7
85°	0.7	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)