

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: P1337458

Luminaire Tested: P3A05R259827DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R259827DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 2700K CCT AND, 98CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

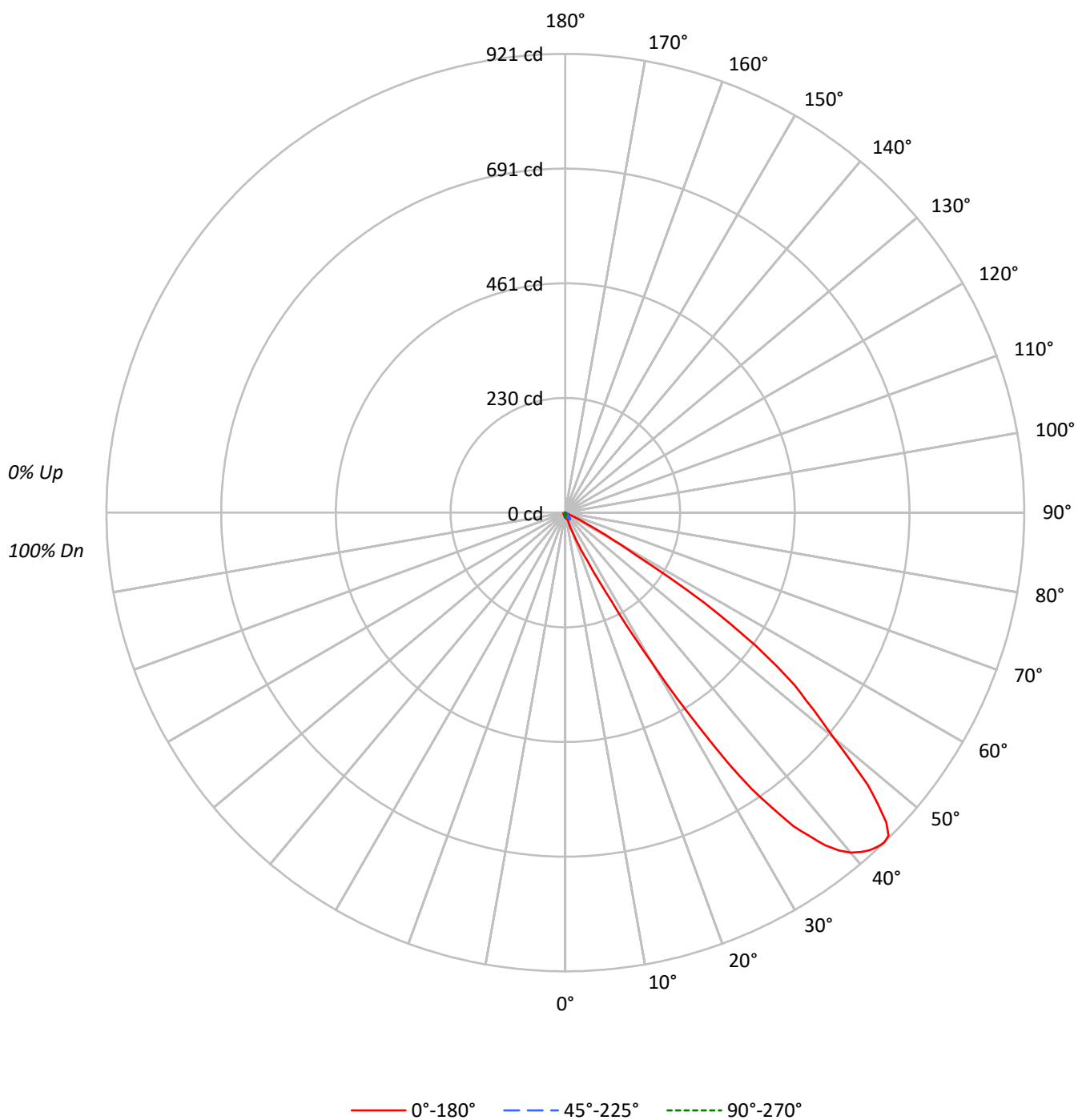
Lumens per Lamp: N/A
Luminaire Lumens: 192.0 lumens
Efficiency: N/A
Efficacy: 26.7 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
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	100		
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2149	2149	2149	2149	2149
5°	2465	2333	2091	1849	1827
10°	2449	2227	1759	1536	1536
15°	2724	1907	1385	1294	1385
20°	9614	1890	1073	1097	1213
25°	27679	2419	847	1016	1186
30°	88292	3722	684	987	1190
35°	193408	4390	589	937	1231
40°	255107	3979	487	973	1317
45°	284495	2791	465	1054	1427
50°	239480	1433	478	1092	1569
55°	179033	573	459	1223	1759
60°	55434	132	439	1316	1930
65°	4722	0	519	1401	2127
70°	321	128	513	1603	2372
75°	254	169	678	1694	2711
80°	253	253	1010	1894	3157
85°	503	503	1761	2013	3522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 284495 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	2.3	1.2
20°-30°	10.6	5.5
30°-40°	51.1	26.6
40°-50°	80.2	41.8
50°-60°	41.1	21.4
60°-70°	3.9	2.0
70°-80°	1.3	0.7
80°-90°	0.7	0.3
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°	13.8	7.2
0°-40°	64.9	33.8
0°-60°	186.2	97.0
0°-90°	192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	192.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	11	11	10	8	8	1
15°	12	8	6	6	6	5
25°	114	10	4	4	5	71
35°	722	16	2	4	5	439
45°	917	9	2	3	5	671
55°	468	2	1	3	5	390
65°	9	0	1	3	4	29
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°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
2.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.5	10.5	10.6	10.5	10.5
5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.0	11.0	11.0	10.6
7.5°	11.3	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.0	11.0	10.5
10°	11.0	11.0	11.0	11.0	10.8	10.8	10.8	10.6	10.6	10.6	10.0
12.5°	11.0	11.0	11.0	11.0	10.8	10.8	10.6	10.6	10.5	10.3	9.1
15°	12.0	12.0	12.0	11.8	11.7	11.5	11.3	11.2	11.0	10.6	8.4
17.5°	17.6	17.1	16.9	16.2	15.4	14.5	13.9	13.2	12.5	12.0	8.1
20°	41.2	41.1	40.2	38.2	36.0	33.5	30.9	28.0	24.0	21.3	8.1
22.5°	71.5	70.5	68.9	67.4	63.5	59.0	54.2	48.8	43.6	38.0	8.6
25°	114.4	116.7	111.7	107.6	100.9	92.6	83.6	76.2	66.7	58.0	10.0
27.5°	198.9	200.4	190.4	177.2	161.5	144.1	127.2	114.6	98.7	84.1	12.5
30°	348.7	350.2	333.5	305.5	273.0	244.5	205.8	171.8	140.6	116.4	14.7
31°	435.2	423.4	404.0	376.8	335.7	292.6	246.2	205.1	165.6	133.8	15.4
32°	510.4	509.4	486.8	445.5	404.3	351.1	293.5	239.9	191.4	151.4	15.9
33°	599.1	592.4	560.4	521.6	467.0	413.4	339.1	277.9	218.0	171.0	16.2
34°	670.2	652.0	638.8	594.4	536.8	468.5	388.9	318.1	251.1	189.9	16.4
35°	722.5	718.6	692.9	651.5	592.9	523.1	442.7	359.9	278.8	211.9	16.4
36°	777.7	765.7	740.7	703.2	646.1	573.9	483.7	396.0	311.0	231.6	16.2
37°	812.3	805.2	780.4	741.7	685.8	616.9	529.7	434.2	336.7	251.4	15.9
38°	848.0	833.6	809.1	772.1	717.2	652.5	563.0	463.6	360.4	268.8	15.4
39°	872.7	857.8	832.8	795.9	742.2	678.0	589.3	488.6	381.0	281.8	14.7
40°	891.2	876.9	851.5	813.7	760.6	698.1	611.3	510.8	398.2	293.1	13.9
41°	902.7	889.4	864.2	826.5	773.3	709.6	625.6	525.1	409.9	300.7	13.0
42°	912.4	898.7	873.0	834.5	781.1	719.4	634.4	534.2	417.8	304.6	12.3
43°	917.8	904.1	879.1	839.7	785.8	724.0	639.2	538.5	420.5	304.1	11.2
44°	920.8	906.6	881.4	842.1	787.8	725.2	639.5	537.6	418.7	300.1	10.1
45°	917.4	903.4	879.1	839.7	784.3	721.4	636.1	533.1	411.6	292.1	9.0
46°	895.5	884.7	862.3	826.2	773.1	712.0	627.5	524.3	400.6	282.3	7.6
47°	856.8	848.2	826.5	799.7	751.7	694.6	611.6	507.5	385.2	267.6	6.1
48°	816.4	803.7	783.6	756.1	715.5	663.3	585.4	483.0	361.9	248.4	5.4
49°	756.8	749.3	731.6	700.8	667.2	621.2	548.4	451.6	333.3	227.4	4.7
50°	702.0	696.9	672.1	649.5	613.8	570.9	498.2	410.2	297.9	201.4	4.2
51°	659.3	653.2	635.3	607.1	569.0	519.2	450.8	356.5	257.2	170.5	3.4
52°	614.7	611.3	595.4	566.3	529.0	479.3	404.6	310.9	217.6	144.1	2.7
53°	578.2	573.3	553.8	528.0	487.6	436.2	354.6	268.5	184.3	121.1	2.4
54°	524.9	522.9	510.4	483.4	439.6	383.7	309.4	226.1	153.7	102.7	2.0
55°	468.3	461.6	448.9	427.5	387.2	335.0	257.0	187.4	124.4	86.5	1.5
56°	399.4	399.1	376.4	358.5	322.9	267.5	205.3	146.3	101.0	72.1	1.4
57°	333.5	322.9	301.1	283.3	245.0	202.9	152.4	109.7	79.1	58.5	1.0
58°	246.7	241.1	235.4	209.3	173.9	143.8	108.8	77.0	58.5	44.6	0.7
59°	167.4	167.3	160.5	140.7	120.3	89.5	67.9	52.4	40.2	32.8	0.5
60°	126.4	123.3	109.8	96.8	75.7	56.6	40.2	30.9	25.0	21.1	0.3
62.5°	44.3	46.0	40.4	33.5	25.5	21.0	16.1	13.0	10.6	8.6	0.0
65°	9.1	10.0	8.6	8.1	6.4	5.6	4.9	4.2	3.5	3.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	1.2	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.7	0.7	0.2
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.2
72.5°	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
85°	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	9.8	9.8	9.8	9.8	9.8	9.8
2.5°	10.3	10.0	9.5	9.3	9.1	9.1
5°	10.1	9.5	9.0	8.4	8.3	8.3
7.5°	9.6	8.8	8.1	7.8	7.6	7.4
10°	9.1	7.9	7.3	6.9	6.9	6.9
12.5°	8.1	7.1	6.4	6.3	6.4	6.4
15°	7.3	6.1	5.7	5.7	5.9	6.1
17.5°	6.3	5.4	5.1	5.2	5.4	5.6
20°	5.6	4.6	4.6	4.7	5.2	5.2
22.5°	4.9	4.1	4.1	4.6	4.9	5.1
25°	4.4	3.5	3.7	4.2	4.7	4.9
27.5°	3.7	3.0	3.4	4.1	4.6	4.7
30°	3.2	2.7	3.2	3.9	4.4	4.7
31°	3.0	2.5	3.2	3.7	4.4	4.7
32°	2.7	2.5	3.0	3.7	4.4	4.6
33°	2.5	2.4	3.0	3.7	4.4	4.6
34°	2.4	2.2	2.9	3.7	4.4	4.6
35°	2.0	2.2	2.9	3.5	4.2	4.6
36°	1.9	2.0	2.9	3.5	4.2	4.6
37°	1.7	2.0	2.7	3.5	4.2	4.6
38°	1.5	1.9	2.7	3.5	4.2	4.6
39°	1.4	1.9	2.5	3.5	4.2	4.6
40°	1.2	1.7	2.5	3.4	4.2	4.6
41°	1.2	1.7	2.5	3.4	4.2	4.6
42°	1.0	1.7	2.5	3.4	4.2	4.6
43°	0.8	1.5	2.5	3.4	4.2	4.6
44°	0.7	1.5	2.4	3.4	4.2	4.6
45°	0.7	1.5	2.4	3.4	4.2	4.6
46°	0.5	1.4	2.4	3.4	4.2	4.6
47°	0.3	1.4	2.4	3.2	4.2	4.6
48°	0.3	1.4	2.4	3.2	4.2	4.6
49°	0.3	1.4	2.2	3.2	4.2	4.6
50°	0.3	1.4	2.2	3.2	4.2	4.6
51°	0.2	1.2	2.2	3.2	4.2	4.6
52°	0.2	1.2	2.2	3.2	4.2	4.7
53°	0.2	1.2	2.2	3.2	4.2	4.6
54°	0.2	1.2	2.0	3.2	4.2	4.6
55°	0.2	1.2	2.0	3.2	4.2	4.6
56°	0.2	1.0	2.0	3.0	4.2	4.6
57°	0.3	1.0	2.0	3.0	4.2	4.4
58°	0.3	1.0	2.0	3.0	4.1	4.4
59°	0.3	1.0	2.0	3.0	4.1	4.4
60°	0.3	1.0	1.9	3.0	4.1	4.4
62.5°	0.3	1.0	1.9	2.9	3.9	4.2
65°	0.3	1.0	1.7	2.7	3.9	4.1



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.3	0.8	1.7	2.5	3.7	3.9
70°	0.5	0.8	1.5	2.5	3.5	3.7
72.5°	0.5	0.8	1.5	2.2	3.2	3.5
75°	0.5	0.8	1.4	2.0	3.0	3.2
77.5°	0.5	0.8	1.2	1.9	2.7	2.9
80°	0.7	0.8	1.0	1.5	2.4	2.5
82.5°	0.7	0.8	0.8	1.2	1.9	2.0
85°	0.5	0.7	0.7	0.8	1.2	1.4
87.5°	0.5	0.7	0.5	0.3	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)