

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: P1336326

Luminaire Tested: P3A05R159030D2WDE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R159030D2WDE010 E3CA451MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

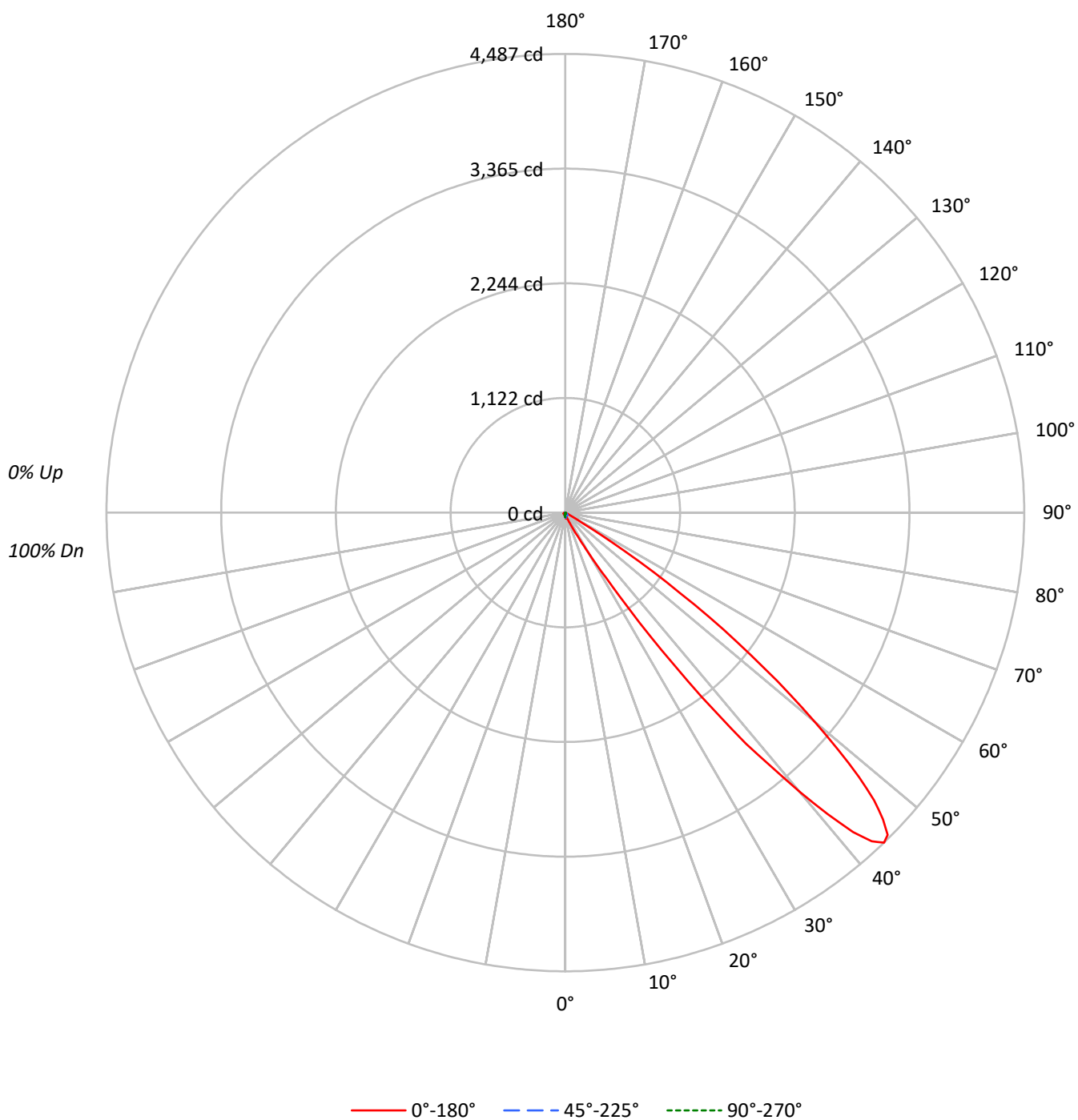
Lumens per Lamp: N/A
Luminaire Lumens: 501.0 lumens
Efficiency: N/A
Efficacy: 45.1 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	100		
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24		
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9758	9758	9758	9758	9758
5°	12084	10786	8805	7704	7594
10°	11912	9241	6791	6012	6123
15°	9875	6583	4881	4994	5335
20°	17128	5250	3734	4317	4900
25°	38204	6291	3024	3992	4597
30°	114220	7723	2659	3925	4811
35°	439685	8700	2409	4015	5086
40°	1020541	7586	2290	4151	5439
45°	1382283	5737	2016	4497	5892
50°	1083836	3411	2047	4776	6482
55°	520240	1529	1912	5161	7073
60°	47540	219	1754	5482	7894
65°	5189	0	1557	5707	8561
70°	1282	0	1923	6091	9296
75°	1271	424	2542	6778	10590
80°	1263	1263	3157	6945	11365
85°	1258	1258	5032	6290	12580

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1382283 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.8
10°-20°	7.9	1.6
20°-30°	18.9	3.8
30°-40°	103.6	20.7
40°-50°	250.9	50.1
50°-60°	100.1	20.0
60°-70°	8.7	1.7
70°-80°	4.9	1.0
80°-90°	2.2	0.4
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°	30.6	6.1
0°-40°	134.3	26.8
0°-60°	485.3	96.9
0°-90°	501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	501.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	55	49	40	35	34	5
15°	44	29	22	22	24	15
25°	158	26	12	16	19	95
35°	1642	32	9	15	19	1161
45°	4457	18	6	14	19	3144
55°	1361	4	5	14	18	1268
65°	10	0	3	11	16	26
75°	2	0	3	8	12	1
85°	0	0	2	2	5	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°	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	50.0	50.0	50.5	50.0	50.0	50.0	50.0	49.5	49.5	49.5	48.0
5°	54.9	54.9	54.9	54.9	54.5	54.5	54.5	54.0	54.0	53.5	49.0
7.5°	56.9	56.9	56.4	56.4	55.9	55.9	55.4	54.9	54.5	54.0	47.0
10°	53.5	53.5	53.5	53.0	53.0	52.5	52.0	51.5	51.0	50.0	41.5
12.5°	47.5	47.5	48.0	47.5	47.0	46.5	45.5	45.0	44.5	43.5	34.5
15°	43.5	43.5	43.5	43.0	42.5	41.5	41.0	40.0	39.5	38.0	29.0
17.5°	55.4	55.4	54.9	54.0	52.0	50.5	48.0	46.0	43.5	40.5	25.0
20°	73.4	73.4	72.4	71.4	68.9	66.4	62.4	58.9	54.9	51.5	22.5
22.5°	106.4	107.9	104.9	101.4	97.9	91.9	86.4	80.9	73.9	67.9	23.0
25°	157.9	159.4	157.9	149.9	143.4	135.4	124.9	113.9	101.9	90.9	26.0
27.5°	255.8	256.8	254.3	234.8	224.3	203.3	184.8	166.8	146.9	126.9	28.5
30°	451.1	451.6	435.6	396.6	362.2	316.2	277.2	239.8	208.3	176.3	30.5
31°	594.0	580.0	546.0	499.0	444.1	382.2	328.7	280.2	233.3	198.8	31.0
32°	754.3	752.3	695.9	614.4	541.0	463.6	383.2	321.2	267.3	220.3	31.5
33°	966.6	967.6	878.7	782.8	662.4	558.5	453.1	368.2	303.2	245.8	32.5
34°	1298.3	1220.4	1116.0	986.1	822.2	665.9	529.0	422.6	335.7	270.3	32.5
35°	1642.5	1564.1	1449.2	1252.4	1027.6	808.8	619.4	481.1	374.7	296.7	32.5
36°	2028.1	1961.7	1787.9	1536.6	1249.9	943.6	715.3	548.5	413.1	320.7	32.0
37°	2444.8	2347.4	2154.5	1880.3	1496.6	1133.5	832.2	615.4	451.6	346.7	31.0
38°	2867.9	2780.0	2536.7	2204.5	1791.4	1333.8	949.1	679.9	487.1	366.2	29.5
39°	3188.6	3140.6	2899.4	2528.2	2026.7	1523.6	1069.5	748.8	524.5	385.6	28.0
40°	3565.2	3487.8	3259.0	2799.9	2304.9	1716.9	1187.4	809.8	555.5	401.1	26.5
41°	3908.9	3811.0	3522.3	3078.7	2527.7	1890.8	1299.3	872.7	580.5	410.1	25.5
42°	4203.7	4089.8	3788.0	3317.5	2714.0	2029.6	1388.7	917.7	603.9	417.6	24.0
43°	4394.5	4296.1	3999.4	3496.8	2873.4	2157.0	1472.2	964.6	618.4	422.6	22.0
44°	4487.4	4388.0	4100.8	3609.2	2971.3	2233.5	1526.1	997.1	634.4	429.1	20.5
45°	4457.4	4356.5	4078.8	3611.2	3001.8	2260.9	1549.1	1011.6	642.9	435.1	18.5
46°	4320.1	4249.1	3969.4	3517.3	2943.8	2231.5	1536.1	1000.6	639.9	435.1	16.5
47°	4127.2	4046.3	3780.1	3355.9	2803.4	2155.5	1483.6	967.1	621.4	425.1	14.5
48°	3864.5	3795.5	3515.8	3099.7	2588.1	1990.2	1365.3	912.7	592.5	405.6	12.5
49°	3534.8	3438.9	3178.6	2772.0	2307.4	1755.4	1209.9	820.8	546.0	378.2	11.0
50°	3177.1	3058.7	2857.9	2443.8	2017.2	1505.1	1005.6	693.9	480.6	342.2	10.0
51°	2826.9	2706.5	2515.2	2163.0	1707.4	1248.9	811.3	554.0	395.6	292.7	8.5
52°	2463.8	2362.8	2148.5	1871.8	1461.7	1012.1	675.9	468.6	328.7	245.8	7.0
53°	2102.1	2033.1	1829.3	1549.1	1174.4	826.7	552.0	401.1	286.7	210.3	5.5
54°	1739.9	1664.5	1509.6	1259.9	946.6	652.4	468.1	335.7	248.8	183.3	5.0
55°	1360.8	1321.8	1178.9	960.6	717.3	520.5	379.7	288.7	208.3	153.4	4.0
56°	1048.0	1004.1	873.7	696.9	533.0	407.6	307.2	235.8	176.3	128.4	3.0
57°	686.4	641.4	555.0	486.6	388.1	297.2	234.8	185.8	143.4	106.4	2.5
58°	405.6	364.7	351.2	299.7	258.8	201.8	173.3	138.4	105.9	83.9	1.5
59°	186.3	189.3	168.3	157.9	143.4	128.4	105.4	92.4	72.4	60.4	1.0
60°	108.4	102.4	99.9	89.4	79.4	70.4	63.4	55.9	45.5	39.0	0.5
62.5°	37.0	35.5	36.5	33.0	31.0	30.0	27.5	23.5	19.5	16.0	0.0
65°	10.0	10.0	9.5	9.0	8.5	8.0	7.5	6.5	6.0	5.0	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°	3.5	3.5	3.0	3.0	2.5	2.5	2.0	2.0	1.5	1.5	0.0
70°	2.0	2.0	2.0	1.5	1.5	1.5	1.0	1.0	1.0	0.5	0.0
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	0.5	0.5
75°	1.5	1.5	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	44.5	44.5	44.5	44.5	44.5	44.5
2.5°	46.0	44.0	41.5	40.0	39.5	39.0
5°	44.0	40.0	37.0	35.0	34.5	34.5
7.5°	39.5	35.0	32.0	31.0	30.5	30.5
10°	34.5	30.5	28.0	27.0	27.5	27.5
12.5°	29.0	25.5	24.5	24.5	25.0	25.5
15°	23.5	21.5	21.5	22.0	23.0	23.5
17.5°	19.5	18.5	19.0	20.0	21.0	22.0
20°	16.0	16.0	17.0	18.5	20.0	21.0
22.5°	13.5	14.0	15.5	17.0	19.0	20.0
25°	11.5	12.5	14.0	16.5	18.5	19.0
27.5°	10.0	11.5	13.5	16.0	18.0	19.0
30°	8.5	10.5	13.0	15.5	18.0	19.0
31°	8.0	10.0	12.5	15.5	18.0	19.0
32°	7.5	10.0	12.5	15.5	18.0	19.0
33°	7.0	9.5	12.5	15.0	18.0	19.0
34°	6.5	9.5	12.5	15.5	18.0	19.0
35°	6.0	9.0	12.0	15.0	17.5	19.0
36°	5.5	9.0	12.0	15.0	18.0	19.0
37°	5.0	9.0	12.0	15.0	17.5	19.0
38°	5.0	8.5	11.5	15.0	17.5	19.0
39°	4.5	8.0	11.5	15.0	17.5	19.0
40°	4.0	8.0	11.0	14.5	17.5	19.0
41°	3.5	7.5	11.0	14.5	17.5	19.0
42°	3.0	7.5	11.0	14.5	17.5	19.0
43°	2.5	7.0	10.5	14.5	17.5	19.0
44°	2.5	7.0	10.5	14.5	17.5	19.0
45°	2.0	6.5	10.0	14.5	17.5	19.0
46°	2.0	6.5	10.0	14.0	17.5	19.0
47°	1.5	6.5	10.0	14.0	17.5	19.0
48°	1.5	6.0	10.0	14.0	17.5	19.0
49°	1.0	6.0	10.0	14.0	17.5	19.0
50°	1.0	6.0	9.5	14.0	17.5	19.0
51°	1.0	6.0	9.5	14.0	17.5	19.0
52°	1.0	5.5	9.5	14.0	17.5	19.0
53°	1.0	5.5	9.5	14.0	17.5	19.0
54°	1.0	5.5	9.0	14.0	17.5	19.0
55°	1.0	5.0	9.0	13.5	17.5	18.5
56°	1.0	5.0	9.0	13.5	17.5	18.5
57°	1.0	5.0	8.5	13.5	17.5	18.5
58°	1.0	4.5	8.5	13.0	17.0	18.5
59°	1.0	4.5	8.0	13.0	17.0	18.0
60°	1.0	4.0	8.0	12.5	16.5	18.0
62.5°	1.0	3.5	7.0	12.0	16.0	17.0
65°	1.0	3.0	6.5	11.0	15.5	16.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.0	3.0	6.0	10.5	14.5	16.0
70°	1.0	3.0	5.5	9.5	14.0	14.5
72.5°	1.5	3.0	5.0	9.0	13.0	13.5
75°	2.0	3.0	4.5	8.0	12.0	12.5
77.5°	2.0	3.0	4.0	7.0	10.5	11.0
80°	2.0	2.5	3.5	5.5	8.5	9.0
82.5°	2.0	2.5	2.5	4.5	6.5	7.0
85°	1.5	2.0	2.0	2.5	4.5	5.0
87.5°	1.5	2.0	1.0	1.5	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)