

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: P1342906

Luminaire Tested: P3A09R459030D2WDE010 E3CA451MB

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R459030D2WDE010 E3CA451MB
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

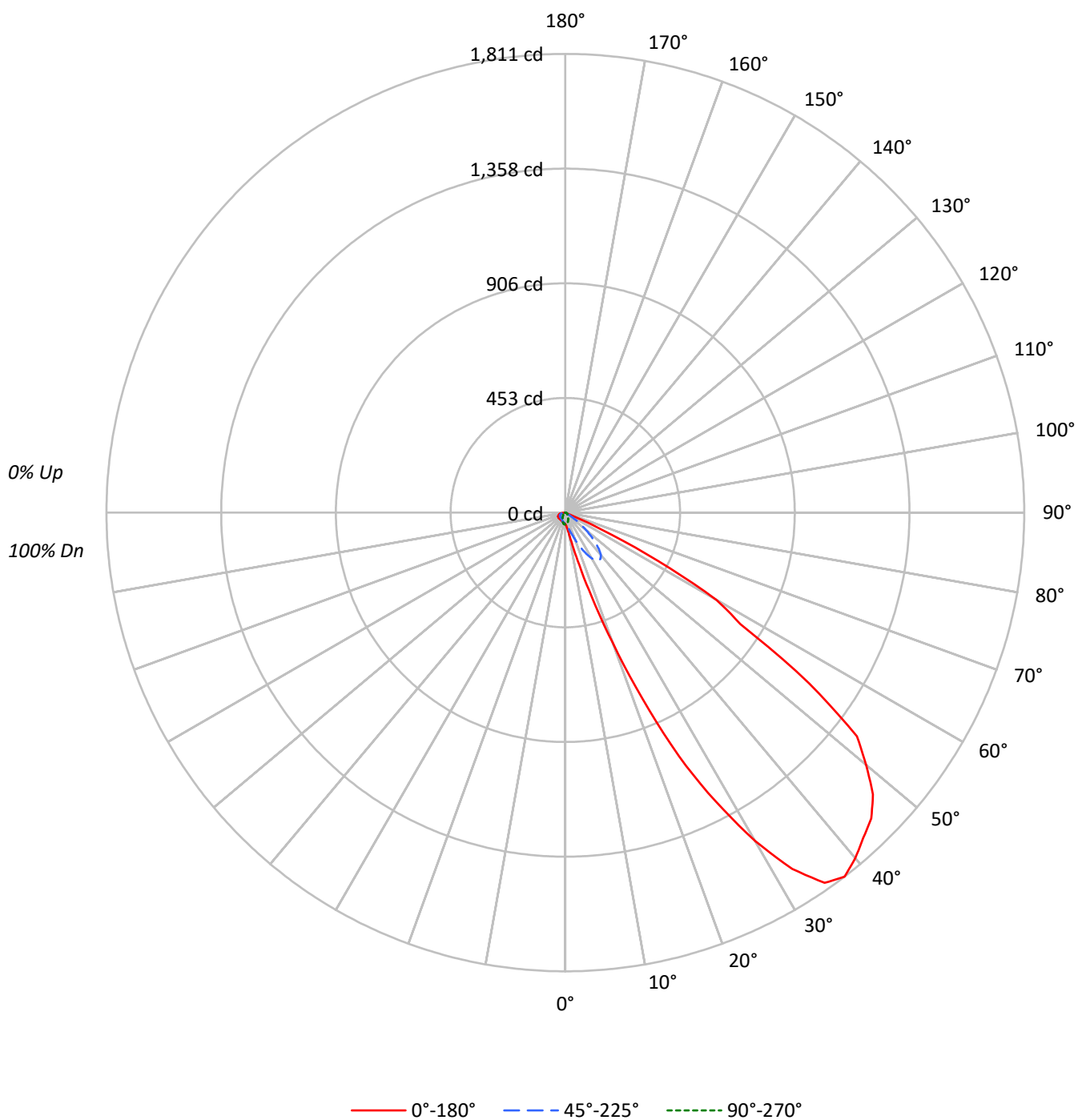
Lumens per Lamp: N/A
Luminaire Lumens: 809.0 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.7
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	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43		
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36		
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31		
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26		
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22		
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10262	10262	10262	10262	10262
5°	12217	11336	10147	9421	9421
10°	19505	13248	9530	8929	8929
15°	48559	17753	8649	8354	8649
20°	127901	26509	7491	7957	8424
25°	256829	39293	6460	7428	8250
30°	378615	52641	5241	7267	8457
35°	477590	61730	4470	7147	8780
40°	509555	62374	4008	7471	9389
45°	529419	52036	3721	8094	10172
50°	528597	36263	3650	8665	11394
55°	449246	16095	3823	9711	12540
60°	301949	3245	3815	10832	14385
65°	80112	1401	3840	11778	16292
70°	2116	1731	3847	12887	18401
75°	1694	1694	3982	13556	20927
80°	1642	2526	4167	14396	23614
85°	1761	3271	6793	15096	23650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 543049 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.6
10°-20°	22.8	2.8
20°-30°	94.1	11.6
30°-40°	198.3	24.5
40°-50°	244.7	30.2
50°-60°	183.4	22.7
60°-70°	47.2	5.8
70°-80°	9.8	1.2
80°-90°	4.0	0.5
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°	121.6	15.0
0°-40°	319.9	39.5
0°-60°	748.0	92.5
0°-90°	809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	809.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	47	47	47	47	47	
5°	56	52	46	43	43	6
15°	214	78	38	37	38	78
25°	1062	162	27	31	34	495
35°	1784	231	17	27	33	1087
45°	1707	168	12	26	33	1306
55°	1175	42	10	25	33	1015
65°	154	3	7	23	31	223
75°	2	2	5	16	25	2
85°	1	1	3	6	9	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8	46.8
2.5°	49.5	49.5	49.5	49.5	49.5	49.5	49.5	48.8	48.1	46.8	45.5
5°	55.5	54.8	54.8	54.8	54.1	53.5	53.5	51.5	48.8	46.1	44.1
7.5°	65.5	65.5	64.8	63.5	62.8	61.5	60.2	54.8	48.8	44.8	42.1
10°	87.6	86.2	84.2	82.9	79.5	74.9	71.5	59.5	48.1	42.8	40.8
12.5°	131.0	133.7	127.0	120.3	111.0	102.3	91.6	67.5	48.1	40.8	38.8
15°	213.9	218.6	205.9	192.5	169.8	148.4	128.3	78.2	46.8	38.1	36.1
17.5°	349.6	355.6	334.2	302.8	267.4	224.6	187.8	92.9	45.5	35.4	34.1
20°	548.1	547.5	506.0	466.6	398.4	335.6	266.7	113.6	43.4	32.1	32.1
22.5°	792.1	794.8	744.0	673.1	576.2	475.3	365.6	137.7	40.8	29.4	30.1
25°	1061.5	1038.8	978.6	892.4	768.7	629.0	484.6	162.4	38.1	26.7	28.1
27.5°	1286.1	1264.1	1195.2	1092.9	959.9	794.1	605.6	187.2	34.8	24.1	26.1
30°	1495.3	1467.3	1384.4	1268.7	1110.3	931.2	719.3	207.9	30.7	20.7	24.1
32.5°	1667.8	1642.4	1548.1	1413.8	1241.3	1048.8	815.5	223.9	26.7	18.7	22.7
35°	1784.1	1758.0	1671.1	1523.4	1335.6	1134.4	893.7	230.6	23.4	16.7	22.1
37.5°	1810.9	1796.8	1734.6	1596.3	1400.4	1189.2	943.9	228.6	19.4	15.4	20.7
40°	1780.1	1783.4	1754.0	1639.1	1435.2	1212.6	964.6	217.9	16.0	14.0	20.1
42.5°	1740.7	1749.4	1747.3	1656.4	1449.9	1213.9	955.9	196.5	12.7	12.7	19.4
45°	1707.2	1715.9	1728.0	1649.1	1439.9	1196.5	928.5	167.8	9.4	12.0	19.4
47.5°	1646.4	1655.8	1673.1	1590.3	1389.1	1151.8	879.0	136.4	6.7	11.4	18.7
50°	1549.5	1554.2	1549.5	1456.6	1291.5	1079.6	798.8	106.3	4.7	10.7	18.7
52.5°	1449.9	1440.5	1401.8	1284.1	1136.4	965.3	697.9	75.5	3.3	10.0	18.0
55°	1175.1	1160.4	1131.7	1059.5	975.3	824.9	564.2	42.1	3.3	10.0	17.4
57.5°	818.9	826.9	836.9	822.2	783.4	649.7	428.5	18.7	3.3	9.4	17.4
60°	688.5	681.8	682.5	673.1	609.0	473.9	294.8	7.4	3.3	8.7	16.7
62.5°	411.1	415.8	424.5	426.5	363.0	264.7	154.4	3.3	3.3	8.0	16.0
65°	154.4	161.8	141.7	123.0	97.6	71.5	36.1	2.7	4.0	7.4	14.7
67.5°	4.7	5.3	6.7	6.0	6.0	5.3	4.0	2.7	4.0	6.7	14.0
70°	3.3	3.3	3.3	3.3	3.3	2.7	2.7	2.7	3.3	6.0	12.7
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.3	5.3	11.4
75°	2.0	2.7	2.0	2.0	2.0	2.0	2.0	2.0	3.3	4.7	9.4
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	4.0	8.0
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.7	3.3	6.7
82.5°	1.3	1.3	1.3	0.7	1.3	1.3	1.3	1.3	2.7	2.7	5.3
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	2.0	2.7	3.3
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.3	2.0	2.0	2.0
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):

	135°	157.5°	180°
0°	46.8	46.8	46.8
2.5°	44.1	44.1	44.1
5°	42.8	42.8	42.8
7.5°	41.4	41.4	41.4
10°	40.1	40.1	40.1
12.5°	38.8	38.8	39.4
15°	36.8	38.1	38.1
17.5°	35.4	36.8	37.4
20°	34.1	35.4	36.1
22.5°	32.1	34.1	35.4
25°	30.7	33.4	34.1
27.5°	29.4	32.8	34.1
30°	28.7	32.1	33.4
32.5°	27.4	31.4	32.8
35°	26.7	31.4	32.8
37.5°	26.7	30.7	32.8
40°	26.1	30.7	32.8
42.5°	26.1	30.7	32.8
45°	26.1	30.7	32.8
47.5°	25.4	30.7	33.4
50°	25.4	31.4	33.4
52.5°	25.4	31.4	33.4
55°	25.4	31.4	32.8
57.5°	24.7	30.7	32.8
60°	24.7	30.7	32.8
62.5°	23.4	30.1	32.1
65°	22.7	29.4	31.4
67.5°	21.4	28.7	30.1
70°	20.1	26.7	28.7
72.5°	18.0	25.4	27.4
75°	16.0	23.4	24.7
77.5°	14.0	20.7	22.1
80°	11.4	17.4	18.7
82.5°	8.7	13.4	14.0
85°	6.0	8.7	9.4
87.5°	2.7	4.0	4.7
90°	0.0	0.0	0.0

(END OF REPORT)