

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: P1334656

Luminaire Tested: P3A02R259030D2WDE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334656
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: P3A02R259030D2WDE010 E3A451WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R25 optic, 3000K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

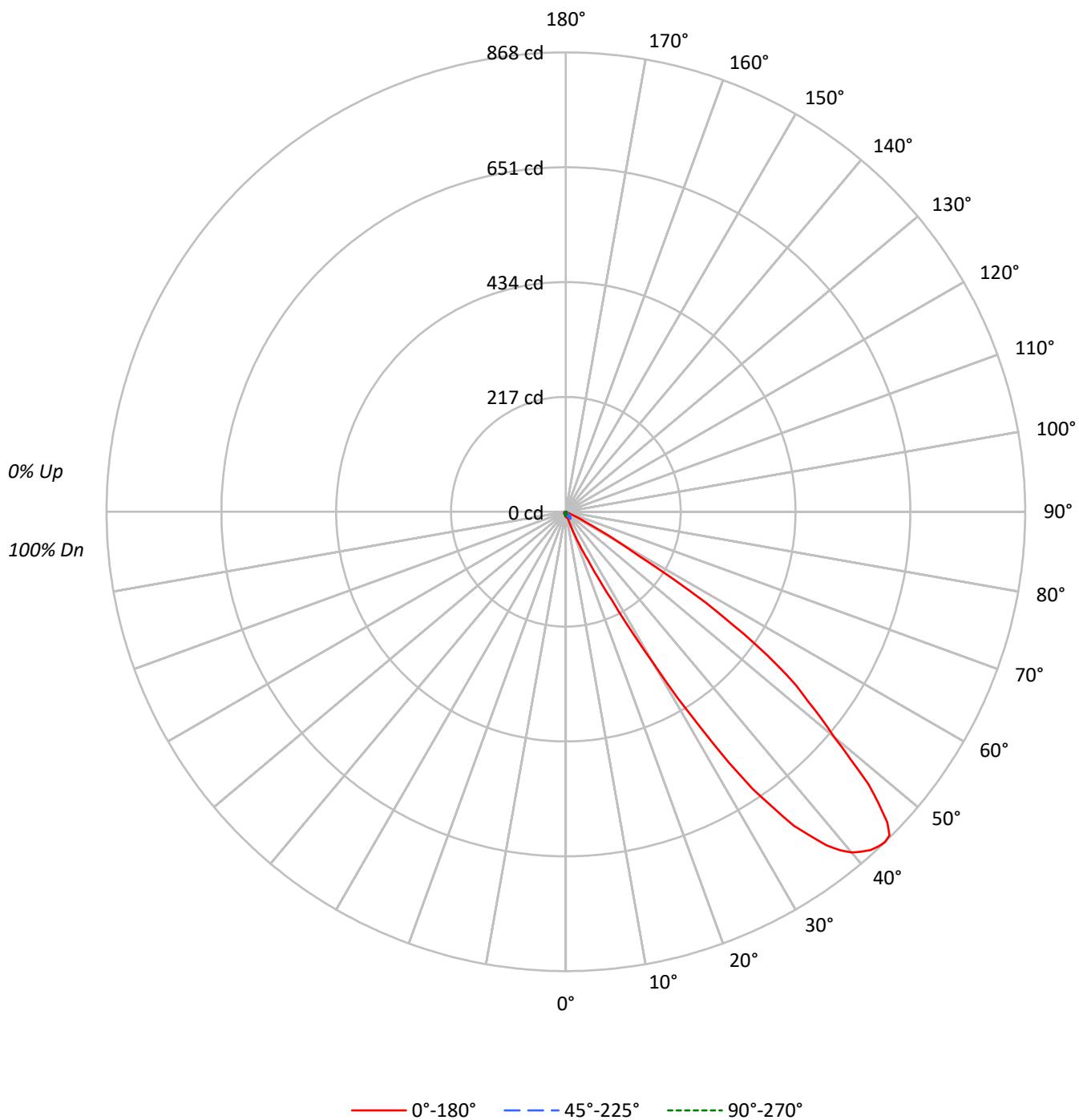
Lumens per Lamp: N/A
Luminaire Lumens: 181.0 lumens
Efficiency: N/A
Efficacy: 25.1 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1334656

CATALOG NUMBER: P3A02R259030D2WDE010 E3A451WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1334656

CATALOG NUMBER: P3A02R259030D2WDE010 E3A451WMH

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°	2017	2017	2017	2017	2017
5°	2311	2201	1959	1761	1717
10°	2316	2093	1670	1447	1447
15°	2565	1816	1294	1226	1294
20°	9077	1773	1003	1050	1143
25°	26082	2274	798	968	1113
30°	83228	3520	633	937	1139
35°	182325	4122	562	883	1151
40°	240508	3750	458	916	1231
45°	268214	2605	434	992	1333
50°	225767	1365	443	1023	1467
55°	168787	535	421	1147	1644
60°	52233	132	439	1272	1798
65°	4462	0	519	1297	1972
70°	321	128	513	1539	2244
75°	254	169	678	1610	2542
80°	253	253	1010	1768	3031
85°	503	503	1510	2013	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 268214 cd/sqm

TEST NUMBER: P1334656

CATALOG NUMBER: P3A02R259030D2WDE010 E3A451WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	2.1	1.2
20°-30°	10.0	5.5
30°-40°	48.2	26.6
40°-50°	75.6	41.7
50°-60°	38.7	21.4
60°-70°	3.7	2.0
70°-80°	1.2	0.7
80°-90°	0.6	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°	13.0	7.2
0°-40°	61.2	33.8
0°-60°	175.5	97.0
0°-90°	181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	181.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	10	10	9	8	8	1
15°	11	8	6	5	6	5
25°	108	9	3	4	5	67
35°	681	15	2	3	4	413
45°	865	8	1	3	4	633
55°	442	1	1	3	4	368
65°	9	0	1	2	4	27
75°	0	0	1	2	3	0
85°	0	0	1	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1334656

CATALOG NUMBER: P3A02R259030D2WDE010 E3A451WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
2.5°	10.0	10.0	10.0	10.0	10.0	10.0	9.9	9.9	10.0	9.9	9.9
5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.4	10.4	10.4	10.0
7.5°	10.7	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.4	10.4	9.9
10°	10.4	10.4	10.4	10.4	10.2	10.2	10.2	10.0	10.0	10.0	9.4
12.5°	10.4	10.4	10.4	10.4	10.2	10.2	10.0	10.0	9.9	9.7	8.6
15°	11.3	11.3	11.3	11.1	11.0	10.8	10.7	10.5	10.4	10.0	8.0
17.5°	16.6	16.1	15.9	15.3	14.5	13.7	13.1	12.4	11.8	11.3	7.6
20°	38.9	38.7	37.9	36.0	33.9	31.5	29.1	26.4	22.6	20.1	7.6
22.5°	67.4	66.4	65.0	63.6	59.9	55.6	51.1	46.0	41.1	35.8	8.1
25°	107.8	110.1	105.3	101.5	95.1	87.3	78.8	71.8	62.9	54.6	9.4
27.5°	187.5	188.9	179.5	167.1	152.3	135.9	119.9	108.0	93.0	79.3	11.8
30°	328.7	330.2	314.4	288.0	257.4	230.5	194.0	162.0	132.5	109.7	13.9
31°	410.3	399.1	380.8	355.2	316.5	275.9	232.1	193.4	156.1	126.1	14.5
32°	481.2	480.2	458.9	420.0	381.1	331.0	276.7	226.2	180.5	142.7	15.0
33°	564.8	558.4	528.3	491.7	440.2	389.7	319.7	262.0	205.5	161.2	15.3
34°	631.8	614.6	602.2	560.3	506.0	441.7	366.7	299.9	236.7	179.0	15.4
35°	681.1	677.4	653.2	614.2	558.9	493.1	417.3	339.3	262.8	199.7	15.4
36°	733.1	721.8	698.3	662.9	609.1	541.1	456.0	373.3	293.2	218.4	15.3
37°	765.8	759.1	735.7	699.2	646.5	581.5	499.3	409.3	317.4	237.0	15.0
38°	799.4	785.9	762.8	727.9	676.1	615.1	530.7	437.1	339.7	253.4	14.5
39°	822.7	808.6	785.1	750.3	699.7	639.2	555.6	460.6	359.2	265.7	13.9
40°	840.2	826.6	802.7	767.1	717.1	658.1	576.3	481.5	375.4	276.3	13.1
41°	851.0	838.4	814.7	779.2	729.0	669.0	589.8	495.0	386.4	283.5	12.3
42°	860.1	847.2	823.0	786.7	736.3	678.2	598.1	503.6	393.9	287.2	11.6
43°	865.2	852.3	828.7	791.6	740.8	682.5	602.5	507.6	396.4	286.7	10.5
44°	868.1	854.7	830.9	793.8	742.7	683.6	602.9	506.8	394.7	282.9	9.6
45°	864.9	851.6	828.7	791.6	739.4	680.1	599.7	502.5	388.0	275.4	8.4
46°	844.2	834.0	812.9	778.9	728.8	671.2	591.6	494.2	377.6	266.1	7.2
47°	807.7	799.6	779.2	753.9	708.6	654.8	576.6	478.5	363.1	252.3	5.7
48°	769.6	757.7	738.7	712.8	674.5	625.3	551.9	455.4	341.2	234.1	5.1
49°	713.4	706.4	689.7	660.7	629.0	585.7	517.0	425.7	314.3	214.4	4.5
50°	661.8	657.0	633.6	612.3	578.6	538.2	469.7	386.7	280.8	189.9	4.0
51°	621.5	615.8	598.9	572.3	536.4	489.5	424.9	336.1	242.4	160.7	3.2
52°	579.4	576.3	561.3	533.9	498.7	451.9	381.5	293.1	205.1	135.9	2.5
53°	545.0	540.4	522.1	497.7	459.7	411.2	334.3	253.1	173.8	114.2	2.2
54°	494.9	493.0	481.2	455.7	414.4	361.7	291.6	213.1	144.9	96.8	1.9
55°	441.5	435.1	423.2	403.0	365.1	315.8	242.3	176.6	117.2	81.5	1.4
56°	376.5	376.2	354.9	338.0	304.4	252.1	193.5	137.9	95.2	68.0	1.3
57°	314.4	304.4	283.8	267.1	230.9	191.3	143.7	103.4	74.5	55.1	1.0
58°	232.5	227.3	221.9	197.3	163.9	135.5	102.6	72.6	55.1	42.0	0.6
59°	157.8	157.7	151.3	132.7	113.4	84.4	64.0	49.4	37.9	30.9	0.5
60°	119.1	116.3	103.5	91.3	71.4	53.4	37.9	29.1	23.6	19.9	0.3
62.5°	41.7	43.3	38.1	31.5	24.1	19.8	15.1	12.3	10.0	8.1	0.0
65°	8.6	9.4	8.1	7.6	6.1	5.3	4.6	4.0	3.3	2.9	0.0



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CATALOG NUMBER: P3A02R259030D2WDE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	1.1	1.0	1.0	1.0	0.8	0.8	0.8	0.8	0.6	0.6	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

TEST NUMBER: P1334656

CATALOG NUMBER: P3A02R259030D2WDE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	9.2	9.2	9.2	9.2	9.2	9.2
2.5°	9.7	9.4	8.9	8.8	8.6	8.6
5°	9.6	8.9	8.4	8.0	7.8	7.8
7.5°	9.1	8.3	7.6	7.3	7.2	7.0
10°	8.6	7.5	6.8	6.5	6.5	6.5
12.5°	7.6	6.7	6.1	5.9	6.1	6.1
15°	6.8	5.7	5.4	5.4	5.6	5.7
17.5°	5.9	5.1	4.8	4.9	5.1	5.3
20°	5.3	4.3	4.3	4.5	4.9	4.9
22.5°	4.6	3.8	3.8	4.3	4.6	4.8
25°	4.1	3.3	3.5	4.0	4.5	4.6
27.5°	3.5	2.9	3.2	3.8	4.3	4.5
30°	3.0	2.5	3.0	3.7	4.1	4.5
31°	2.9	2.4	3.0	3.5	4.1	4.5
32°	2.5	2.4	2.9	3.5	4.1	4.3
33°	2.4	2.2	2.9	3.5	4.1	4.3
34°	2.2	2.1	2.7	3.5	4.1	4.3
35°	1.9	2.1	2.7	3.3	4.0	4.3
36°	1.8	1.9	2.7	3.3	4.0	4.3
37°	1.6	1.9	2.5	3.3	4.0	4.3
38°	1.4	1.8	2.5	3.3	4.0	4.3
39°	1.3	1.8	2.4	3.3	4.0	4.3
40°	1.1	1.6	2.4	3.2	4.0	4.3
41°	1.1	1.6	2.4	3.2	4.0	4.3
42°	1.0	1.6	2.4	3.2	4.0	4.3
43°	0.8	1.4	2.4	3.2	4.0	4.3
44°	0.6	1.4	2.2	3.2	4.0	4.3
45°	0.6	1.4	2.2	3.2	4.0	4.3
46°	0.5	1.3	2.2	3.2	4.0	4.3
47°	0.3	1.3	2.2	3.0	4.0	4.3
48°	0.3	1.3	2.2	3.0	4.0	4.3
49°	0.3	1.3	2.1	3.0	4.0	4.3
50°	0.3	1.3	2.1	3.0	4.0	4.3
51°	0.2	1.1	2.1	3.0	4.0	4.3
52°	0.2	1.1	2.1	3.0	4.0	4.5
53°	0.2	1.1	2.1	3.0	4.0	4.3
54°	0.2	1.1	1.9	3.0	4.0	4.3
55°	0.2	1.1	1.9	3.0	4.0	4.3
56°	0.2	1.0	1.9	2.9	4.0	4.3
57°	0.3	1.0	1.9	2.9	4.0	4.1
58°	0.3	1.0	1.9	2.9	3.8	4.1
59°	0.3	1.0	1.9	2.9	3.8	4.1
60°	0.3	1.0	1.8	2.9	3.8	4.1
62.5°	0.3	1.0	1.8	2.7	3.7	4.0
65°	0.3	1.0	1.6	2.5	3.7	3.8



TEST NUMBER: P1334656

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.3	0.8	1.6	2.4	3.5	3.7
70°	0.5	0.8	1.4	2.4	3.3	3.5
72.5°	0.5	0.8	1.4	2.1	3.0	3.3
75°	0.5	0.8	1.3	1.9	2.9	3.0
77.5°	0.5	0.8	1.1	1.8	2.5	2.7
80°	0.6	0.8	1.0	1.4	2.2	2.4
82.5°	0.6	0.8	0.8	1.1	1.8	1.9
85°	0.5	0.6	0.6	0.8	1.1	1.3
87.5°	0.5	0.6	0.5	0.3	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)