

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: P1339358

Luminaire Tested: P3A05R459030D2WDE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339358
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: P3A05R459030D2WDE010 E3A451WMH
Description: 3in Adjustable Dim to Warm LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

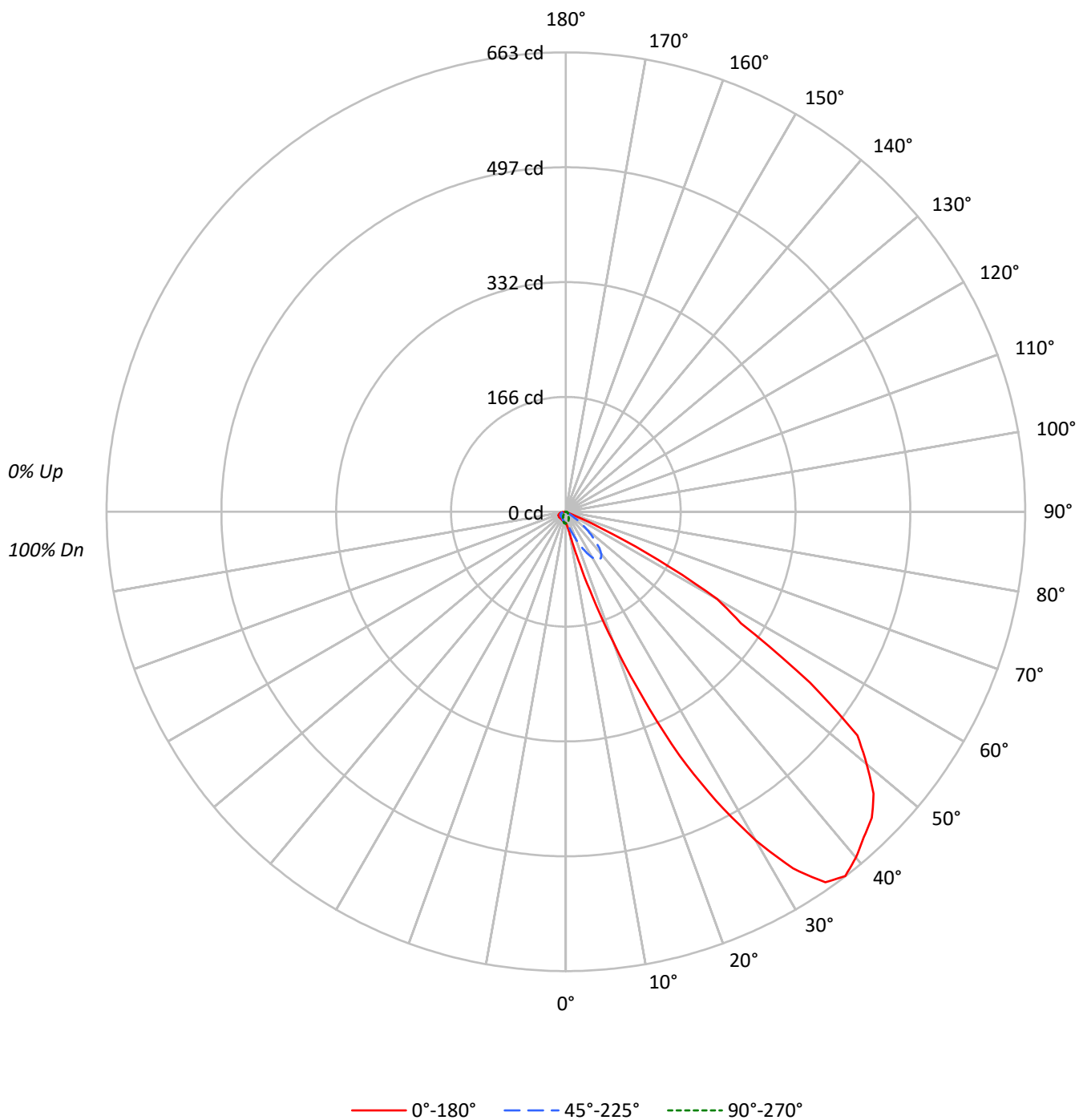
Lumens per Lamp: N/A
Luminaire Lumens: 296.0 lumens
Efficiency: N/A
Efficacy: 26.7 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.83 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			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°	3750	3750	3750	3750	3750
5°	4468	4138	3720	3456	3456
10°	7125	4854	3496	3273	3273
15°	17775	6493	3156	3065	3156
20°	46811	9708	2730	2917	3080
25°	93973	14372	2371	2734	3024
30°	138528	19269	1924	2659	3089
35°	174750	22593	1633	2623	3212
40°	186435	22814	1460	2719	3435
45°	193726	19041	1364	2946	3721
50°	193392	13270	1330	3173	4162
55°	164391	5887	1415	3555	4588
60°	110474	1184	1403	3947	5263
65°	29316	519	1401	4307	5967
70°	769	641	1410	4680	6732
75°	593	593	1440	4999	7625
80°	631	884	1515	5304	8587
85°	503	1258	2516	5535	8554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 198706 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.6
10°-20°	8.4	2.8
20°-30°	34.4	11.6
30°-40°	72.6	24.5
40°-50°	89.5	30.2
50°-60°	67.1	22.7
60°-70°	17.3	5.8
70°-80°	3.6	1.2
80°-90°	1.5	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°	44.5	15.0
0°-40°	117.1	39.5
0°-60°	273.7	92.5
0°-90°	296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	296.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	20	19	17	16	16	2
15°	78	29	14	14	14	29
25°	388	59	10	11	12	181
35°	653	84	6	10	12	398
45°	625	61	4	10	12	478
55°	430	15	4	9	12	371
65°	56	1	3	8	12	81
75°	1	1	2	6	9	1
85°	0	0	1	2	3	0
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°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
2.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	17.9	17.6	17.1	16.6
5°	20.3	20.1	20.1	20.1	19.8	19.6	19.6	18.8	17.9	16.9	16.1
7.5°	24.0	24.0	23.7	23.2	23.0	22.5	22.0	20.1	17.9	16.4	15.4
10°	32.0	31.6	30.8	30.3	29.1	27.4	26.2	21.8	17.6	15.7	14.9
12.5°	47.9	48.9	46.5	44.0	40.6	37.4	33.5	24.7	17.6	14.9	14.2
15°	78.3	80.0	75.3	70.4	62.1	54.3	47.0	28.6	17.1	13.9	13.2
17.5°	127.9	130.1	122.3	110.8	97.8	82.2	68.7	34.0	16.6	13.0	12.5
20°	200.6	200.3	185.1	170.7	145.8	122.8	97.6	41.6	15.9	11.7	11.7
22.5°	289.8	290.8	272.2	246.3	210.8	173.9	133.8	50.4	14.9	10.8	11.0
25°	388.4	380.1	358.1	326.5	281.3	230.1	177.3	59.4	13.9	9.8	10.3
27.5°	470.6	462.5	437.3	399.9	351.2	290.6	221.6	68.5	12.7	8.8	9.5
30°	547.1	536.8	506.5	464.2	406.2	340.7	263.2	76.1	11.3	7.6	8.8
32.5°	610.2	600.9	566.4	517.3	454.2	383.7	298.4	81.9	9.8	6.8	8.3
35°	652.8	643.2	611.4	557.4	488.7	415.0	327.0	84.4	8.6	6.1	8.1
37.5°	662.6	657.4	634.7	584.1	512.4	435.1	345.3	83.6	7.1	5.6	7.6
40°	651.3	652.5	641.8	599.7	525.1	443.7	352.9	79.7	5.9	5.1	7.3
42.5°	636.9	640.1	639.3	606.1	530.5	444.2	349.7	71.9	4.6	4.6	7.1
45°	624.7	627.8	632.2	603.4	526.8	437.8	339.7	61.4	3.4	4.4	7.1
47.5°	602.4	605.8	612.2	581.9	508.2	421.4	321.6	49.9	2.4	4.2	6.8
50°	566.9	568.6	566.9	532.9	472.5	395.0	292.3	38.9	1.7	3.9	6.8
52.5°	530.5	527.1	512.9	469.8	415.8	353.2	255.3	27.6	1.2	3.7	6.6
55°	430.0	424.6	414.1	387.7	356.8	301.8	206.4	15.4	1.2	3.7	6.4
57.5°	299.6	302.5	306.2	300.8	286.6	237.7	156.8	6.8	1.2	3.4	6.4
60°	251.9	249.5	249.7	246.3	222.8	173.4	107.9	2.7	1.2	3.2	6.1
62.5°	150.4	152.1	155.3	156.0	132.8	96.9	56.5	1.2	1.2	2.9	5.9
65°	56.5	59.2	51.9	45.0	35.7	26.2	13.2	1.0	1.5	2.7	5.4
67.5°	1.7	2.0	2.4	2.2	2.2	2.0	1.5	1.0	1.5	2.4	5.1
70°	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.2	2.2	4.6
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	2.0	4.2
75°	0.7	1.0	0.7	0.7	0.7	0.7	0.7	0.7	1.2	1.7	3.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.5	2.9
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	1.0	1.2	2.4
82.5°	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	1.0	1.0	2.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7	1.0	1.2
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5	0.7	0.7	0.7
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°	17.1	17.1	17.1
2.5°	16.1	16.1	16.1
5°	15.7	15.7	15.7
7.5°	15.2	15.2	15.2
10°	14.7	14.7	14.7
12.5°	14.2	14.2	14.4
15°	13.5	13.9	13.9
17.5°	13.0	13.5	13.7
20°	12.5	13.0	13.2
22.5°	11.7	12.5	13.0
25°	11.3	12.2	12.5
27.5°	10.8	12.0	12.5
30°	10.5	11.7	12.2
32.5°	10.0	11.5	12.0
35°	9.8	11.5	12.0
37.5°	9.8	11.3	12.0
40°	9.5	11.3	12.0
42.5°	9.5	11.3	12.0
45°	9.5	11.3	12.0
47.5°	9.3	11.3	12.2
50°	9.3	11.5	12.2
52.5°	9.3	11.5	12.2
55°	9.3	11.5	12.0
57.5°	9.0	11.3	12.0
60°	9.0	11.3	12.0
62.5°	8.6	11.0	11.7
65°	8.3	10.8	11.5
67.5°	7.8	10.5	11.0
70°	7.3	9.8	10.5
72.5°	6.6	9.3	10.0
75°	5.9	8.6	9.0
77.5°	5.1	7.6	8.1
80°	4.2	6.4	6.8
82.5°	3.2	4.9	5.1
85°	2.2	3.2	3.4
87.5°	1.0	1.5	1.7
90°	0.0	0.0	0.0

(END OF REPORT)