

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: P1339486

Luminaire Tested: P3A05R459740DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339486
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: P3A05R459740DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

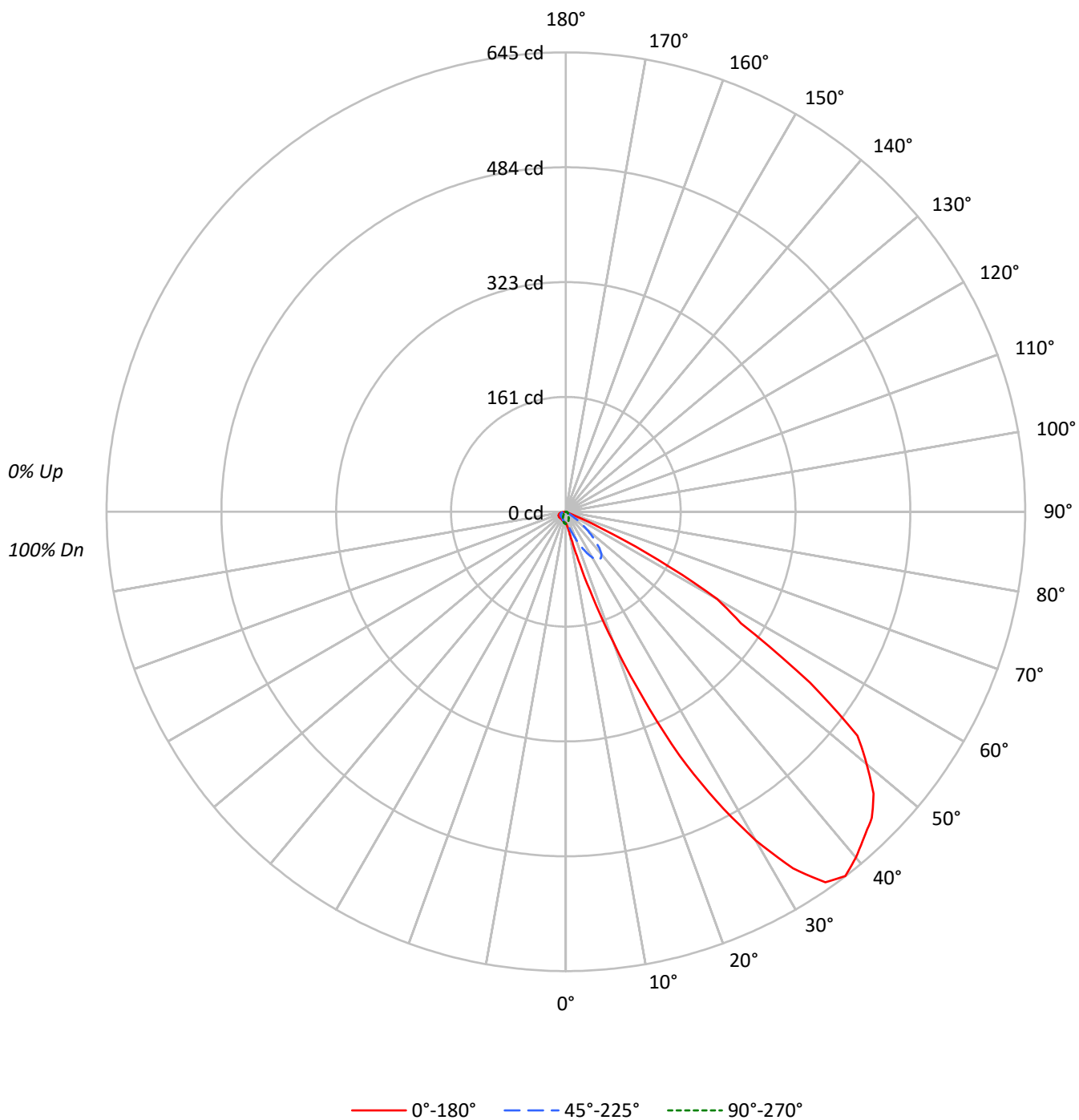
Lumens per Lamp: N/A
Luminaire Lumens: 288.0 lumens
Efficiency: N/A
Efficacy: 40.0 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RW	70	50	30	10	70	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
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3662	3662	3662	3662	3662
5°	4358	4028	3610	3346	3346
10°	6947	4720	3384	3184	3184
15°	17276	6311	3087	2974	3087
20°	45527	9451	2660	2824	3010
25°	91433	13985	2299	2637	2928
30°	134780	18737	1874	2583	3013
35°	170011	21978	1579	2543	3132
40°	181397	22213	1431	2662	3349
45°	188485	18514	1333	2884	3628
50°	188173	12895	1296	3070	4060
55°	159918	5735	1376	3441	4473
60°	107491	1140	1360	3859	5131
65°	28537	519	1349	4203	5811
70°	769	641	1346	4552	6540
75°	593	593	1440	4829	7456
80°	631	884	1515	5051	8461
85°	503	1258	2516	5284	8303

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 193318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.6
10°-20°	8.1	2.8
20°-30°	33.5	11.6
30°-40°	70.6	24.5
40°-50°	87.1	30.2
50°-60°	65.3	22.7
60°-70°	16.8	5.8
70°-80°	3.5	1.2
80°-90°	1.4	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°	43.3	15.0
0°-40°	113.9	39.5
0°-60°	266.3	92.5
0°-90°	288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	288.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	20	18	16	15	15	2
15°	76	28	14	13	14	28
25°	378	58	10	11	12	176
35°	635	82	6	10	12	387
45°	608	60	4	9	12	465
55°	418	15	4	9	12	361
65°	55	1	3	8	11	79
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°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
2.5°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.4	17.1	16.7	16.2
5°	19.8	19.5	19.5	19.5	19.3	19.0	19.0	18.3	17.4	16.4	15.7
7.5°	23.3	23.3	23.1	22.6	22.4	21.9	21.4	19.5	17.4	15.9	15.0
10°	31.2	30.7	30.0	29.5	28.3	26.7	25.5	21.2	17.1	15.2	14.5
12.5°	46.6	47.6	45.2	42.8	39.5	36.4	32.6	24.0	17.1	14.5	13.8
15°	76.1	77.8	73.3	68.5	60.4	52.8	45.7	27.8	16.7	13.6	12.9
17.5°	124.5	126.6	119.0	107.8	95.2	80.0	66.9	33.1	16.2	12.6	12.1
20°	195.1	194.9	180.1	166.1	141.8	119.5	94.9	40.5	15.5	11.4	11.4
22.5°	282.0	282.9	264.9	239.6	205.1	169.2	130.2	49.0	14.5	10.5	10.7
25°	377.9	369.8	348.4	317.7	273.7	223.9	172.5	57.8	13.6	9.5	10.0
27.5°	457.8	450.0	425.5	389.1	341.7	282.7	215.6	66.6	12.4	8.6	9.3
30°	532.3	522.3	492.8	451.7	395.3	331.5	256.1	74.0	10.9	7.4	8.6
32.5°	593.7	584.7	551.1	503.3	441.9	373.4	290.3	79.7	9.5	6.7	8.1
35°	635.1	625.9	594.9	542.3	475.5	403.8	318.2	82.1	8.3	5.9	7.9
37.5°	644.7	639.7	617.5	568.3	498.5	423.3	336.0	81.4	6.9	5.5	7.4
40°	633.7	634.9	624.4	583.5	510.9	431.7	343.4	77.6	5.7	5.0	7.1
42.5°	619.7	622.8	622.0	589.7	516.2	432.1	340.3	70.0	4.5	4.5	6.9
45°	607.8	610.9	615.1	587.1	512.6	426.0	330.5	59.7	3.3	4.3	6.9
47.5°	586.1	589.4	595.6	566.1	494.5	410.0	312.9	48.5	2.4	4.0	6.7
50°	551.6	553.3	551.6	518.5	459.8	384.3	284.4	37.8	1.7	3.8	6.7
52.5°	516.2	512.8	499.0	457.1	404.5	343.6	248.4	26.9	1.2	3.6	6.4
55°	418.3	413.1	402.9	377.2	347.2	293.7	200.8	15.0	1.2	3.6	6.2
57.5°	291.5	294.4	297.9	292.7	278.9	231.3	152.5	6.7	1.2	3.3	6.2
60°	245.1	242.7	243.0	239.6	216.8	168.7	104.9	2.6	1.2	3.1	5.9
62.5°	146.3	148.0	151.1	151.8	129.2	94.2	55.0	1.2	1.2	2.9	5.7
65°	55.0	57.6	50.4	43.8	34.7	25.5	12.9	1.0	1.4	2.6	5.2
67.5°	1.7	1.9	2.4	2.1	2.1	1.9	1.4	1.0	1.4	2.4	5.0
70°	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.0	1.2	2.1	4.5
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.9	4.0
75°	0.7	1.0	0.7	0.7	0.7	0.7	0.7	0.7	1.2	1.7	3.3
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.4	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	1.9
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°	16.7	16.7	16.7
2.5°	15.7	15.7	15.7
5°	15.2	15.2	15.2
7.5°	14.8	14.8	14.8
10°	14.3	14.3	14.3
12.5°	13.8	13.8	14.0
15°	13.1	13.6	13.6
17.5°	12.6	13.1	13.3
20°	12.1	12.6	12.9
22.5°	11.4	12.1	12.6
25°	10.9	11.9	12.1
27.5°	10.5	11.7	12.1
30°	10.2	11.4	11.9
32.5°	9.8	11.2	11.7
35°	9.5	11.2	11.7
37.5°	9.5	10.9	11.7
40°	9.3	10.9	11.7
42.5°	9.3	10.9	11.7
45°	9.3	10.9	11.7
47.5°	9.0	10.9	11.9
50°	9.0	11.2	11.9
52.5°	9.0	11.2	11.9
55°	9.0	11.2	11.7
57.5°	8.8	10.9	11.7
60°	8.8	10.9	11.7
62.5°	8.3	10.7	11.4
65°	8.1	10.5	11.2
67.5°	7.6	10.2	10.7
70°	7.1	9.5	10.2
72.5°	6.4	9.0	9.8
75°	5.7	8.3	8.8
77.5°	5.0	7.4	7.9
80°	4.0	6.2	6.7
82.5°	3.1	4.8	5.0
85°	2.1	3.1	3.3
87.5°	1.0	1.4	1.7
90°	0.0	0.0	0.0

(END OF REPORT)