

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: P1339500

Luminaire Tested: P3A05R459827DE010 E3A451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339500
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: P3A05R459827DE010 E3A451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3A451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

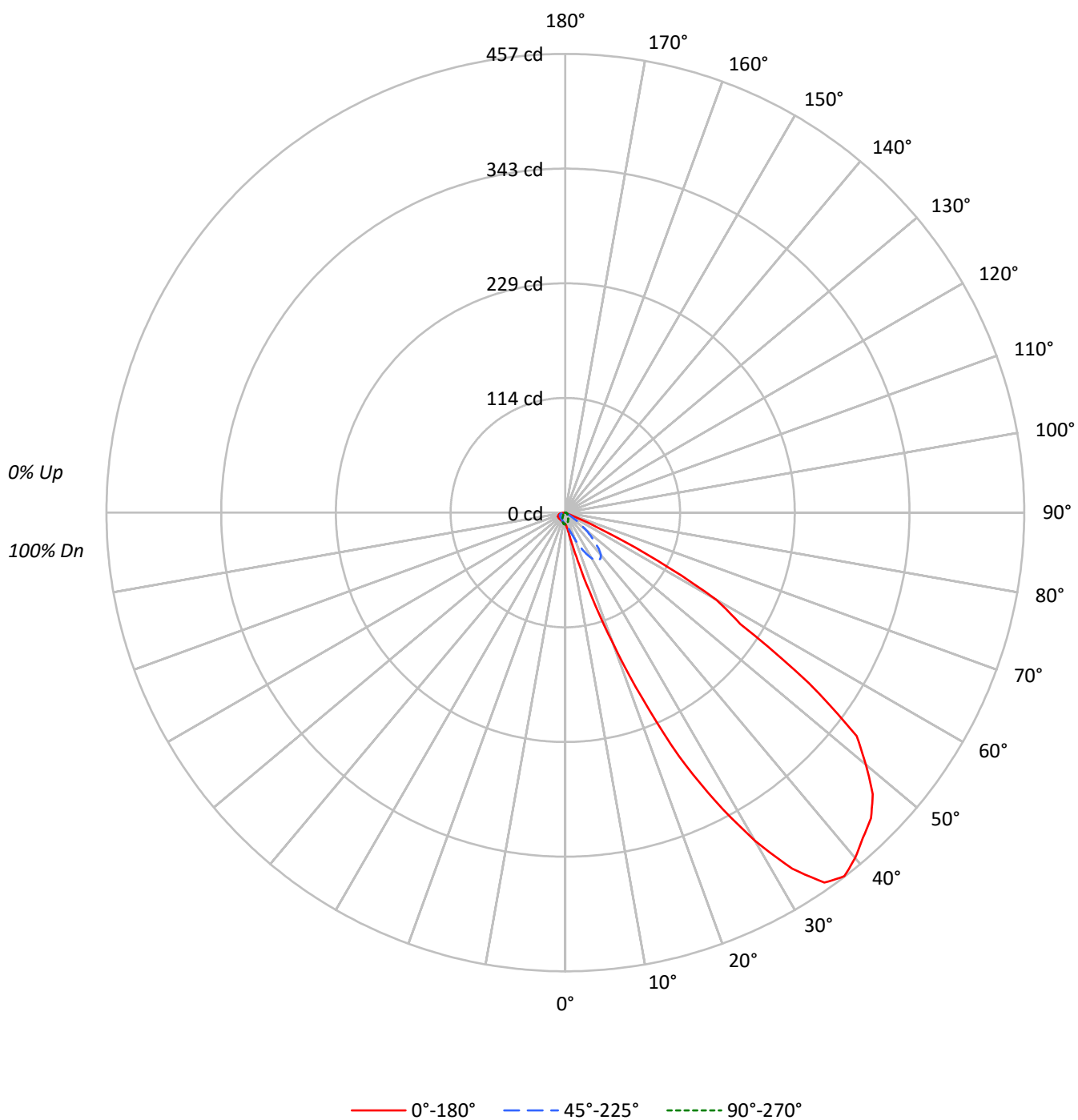
Lumens per Lamp: N/A
Luminaire Lumens: 204.0 lumens
Efficiency: N/A
Efficacy: 28.3 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	40	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°	2588	2588	2588	2588	2588
5°	3082	2862	2553	2377	2377
10°	4921	3340	2405	2249	2249
15°	12236	4472	2179	2111	2179
20°	32249	6697	1890	2007	2124
25°	64770	9920	1621	1887	2081
30°	95483	13268	1317	1823	2127
35°	120435	15580	1124	1794	2222
40°	128498	15744	1002	1889	2376
45°	133502	13118	930	2047	2574
50°	133283	9143	921	2183	2866
55°	113277	4052	956	2447	3173
60°	76134	833	965	2719	3640
65°	20184	363	986	2958	4099
70°	513	449	962	3270	4616
75°	424	424	1017	3389	5253
80°	379	631	1010	3662	5935
85°	503	755	1761	3774	6038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 136939 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.6
10°-20°	5.8	2.8
20°-30°	23.7	11.6
30°-40°	50.0	24.5
40°-50°	61.7	30.3
50°-60°	46.2	22.7
60°-70°	11.9	5.8
70°-80°	2.5	1.2
80°-90°	1.0	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°	30.7	15.0
0°-40°	80.7	39.5
0°-60°	188.6	92.5
0°-90°	204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	204.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	14	13	12	11	11	2
15°	54	20	10	9	10	20
25°	268	41	7	8	9	125
35°	450	58	4	7	8	274
45°	430	42	3	7	8	329
55°	296	11	2	6	8	256
65°	39	1	2	6	8	56
75°	0	0	1	4	6	1
85°	0	0	1	2	2	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°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
2.5°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.3	12.1	11.8	11.5
5°	14.0	13.8	13.8	13.8	13.7	13.5	13.5	13.0	12.3	11.6	11.1
7.5°	16.5	16.5	16.4	16.0	15.8	15.5	15.2	13.8	12.3	11.3	10.6
10°	22.1	21.7	21.2	20.9	20.1	18.9	18.0	15.0	12.1	10.8	10.3
12.5°	33.0	33.7	32.0	30.3	28.0	25.8	23.1	17.0	12.1	10.3	9.8
15°	53.9	55.1	51.9	48.5	42.8	37.4	32.4	19.7	11.8	9.6	9.1
17.5°	88.2	89.7	84.3	76.4	67.4	56.6	47.4	23.4	11.5	8.9	8.6
20°	138.2	138.1	127.6	117.7	100.5	84.6	67.3	28.7	11.0	8.1	8.1
22.5°	199.7	200.4	187.6	169.7	145.3	119.8	92.2	34.7	10.3	7.4	7.6
25°	267.7	261.9	246.8	225.0	193.8	158.6	122.2	41.0	9.6	6.7	7.1
27.5°	324.3	318.7	301.4	275.6	242.1	200.2	152.7	47.2	8.8	6.1	6.6
30°	377.1	370.0	349.1	319.9	280.0	234.8	181.4	52.4	7.8	5.2	6.1
32.5°	420.6	414.2	390.4	356.5	313.0	264.5	205.6	56.5	6.7	4.7	5.7
35°	449.9	443.3	421.4	384.1	336.8	286.0	225.4	58.2	5.9	4.2	5.6
37.5°	456.6	453.1	437.4	402.5	353.1	299.9	238.0	57.6	4.9	3.9	5.2
40°	448.9	449.7	442.3	413.3	361.9	305.8	243.2	55.0	4.0	3.5	5.1
42.5°	438.9	441.1	440.6	417.7	365.6	306.1	241.0	49.6	3.2	3.2	4.9
45°	430.5	432.7	435.7	415.8	363.1	301.7	234.1	42.3	2.4	3.0	4.9
47.5°	415.2	417.5	421.9	401.0	350.3	290.4	221.7	34.4	1.7	2.9	4.7
50°	390.7	391.9	390.7	367.3	325.7	272.2	201.4	26.8	1.2	2.7	4.7
52.5°	365.6	363.2	353.5	323.8	286.6	243.4	176.0	19.0	0.8	2.5	4.6
55°	296.3	292.6	285.4	267.2	245.9	208.0	142.3	10.6	0.8	2.5	4.4
57.5°	206.5	208.5	211.0	207.3	197.6	163.8	108.0	4.7	0.8	2.4	4.4
60°	173.6	171.9	172.1	169.7	153.6	119.5	74.3	1.9	0.8	2.2	4.2
62.5°	103.7	104.8	107.0	107.5	91.5	66.7	38.9	0.8	0.8	2.0	4.0
65°	38.9	40.8	35.7	31.0	24.6	18.0	9.1	0.7	1.0	1.9	3.7
67.5°	1.2	1.3	1.7	1.5	1.5	1.3	1.0	0.7	1.0	1.7	3.5
70°	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	1.5	3.2
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.3	2.9
75°	0.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.2	2.4
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	1.0	2.0
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.7	0.8	1.7
82.5°	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.7	0.7	1.3
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5	0.7	0.8
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.3	0.5	0.5	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):

	135°	157.5°	180°
0°	11.8	11.8	11.8
2.5°	11.1	11.1	11.1
5°	10.8	10.8	10.8
7.5°	10.5	10.5	10.5
10°	10.1	10.1	10.1
12.5°	9.8	9.8	9.9
15°	9.3	9.6	9.6
17.5°	8.9	9.3	9.4
20°	8.6	8.9	9.1
22.5°	8.1	8.6	8.9
25°	7.8	8.4	8.6
27.5°	7.4	8.3	8.6
30°	7.2	8.1	8.4
32.5°	6.9	7.9	8.3
35°	6.7	7.9	8.3
37.5°	6.7	7.8	8.3
40°	6.6	7.8	8.3
42.5°	6.6	7.8	8.3
45°	6.6	7.8	8.3
47.5°	6.4	7.8	8.4
50°	6.4	7.9	8.4
52.5°	6.4	7.9	8.4
55°	6.4	7.9	8.3
57.5°	6.2	7.8	8.3
60°	6.2	7.8	8.3
62.5°	5.9	7.6	8.1
65°	5.7	7.4	7.9
67.5°	5.4	7.2	7.6
70°	5.1	6.7	7.2
72.5°	4.6	6.4	6.9
75°	4.0	5.9	6.2
77.5°	3.5	5.2	5.6
80°	2.9	4.4	4.7
82.5°	2.2	3.4	3.5
85°	1.5	2.2	2.4
87.5°	0.7	1.0	1.2
90°	0.0	0.0	0.0

(END OF REPORT)