

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: P1338414

Luminaire Tested: P3A05R359727DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R359727DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 97CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

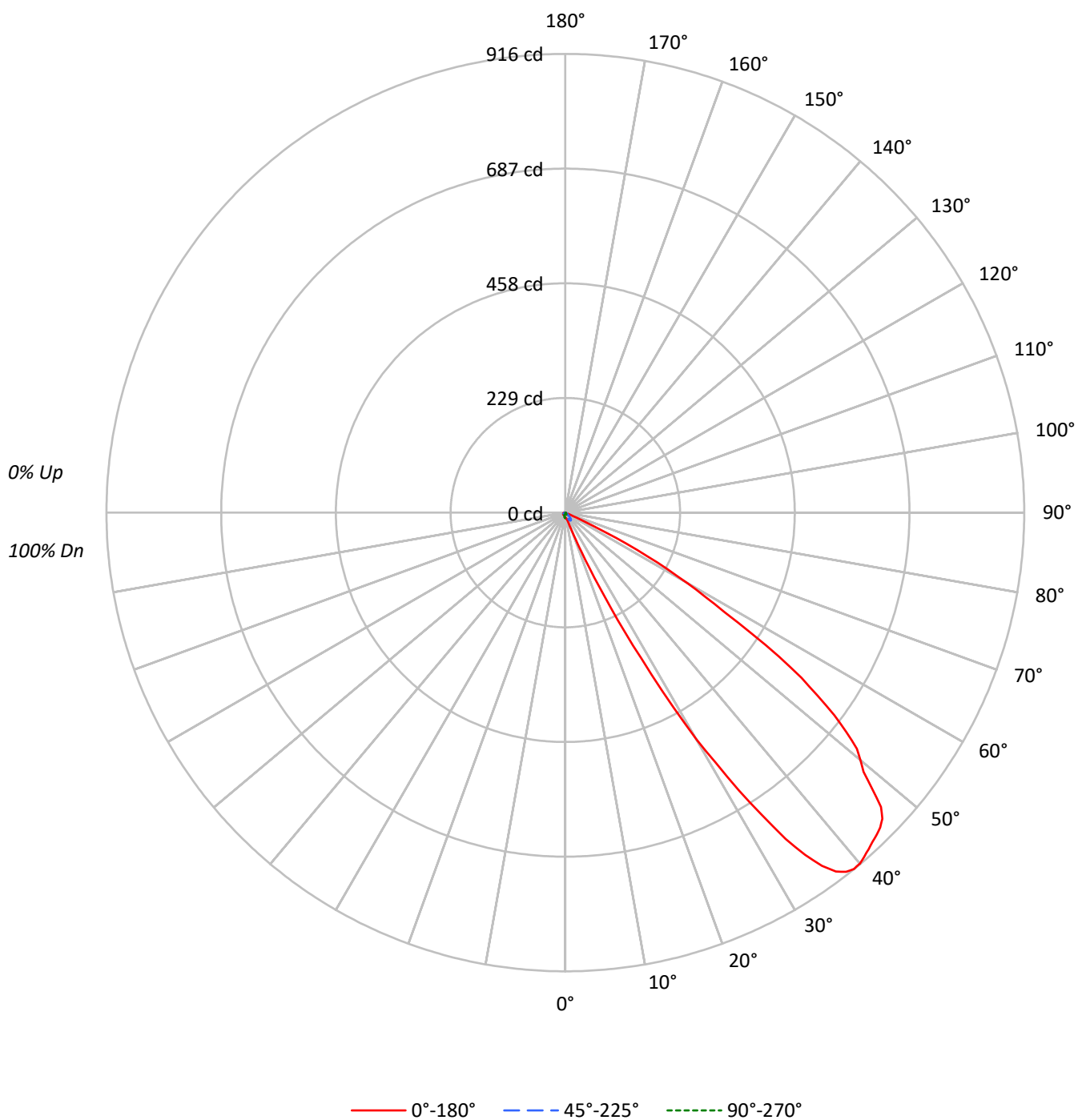
Lumens per Lamp: N/A
Luminaire Lumens: 228.0 lumens
Efficiency: N/A
Efficacy: 31.7 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	107	104	100	97	100	97	94		96	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	83	71	62	55	80	69	61	55	67	60	54		64	58	53		62
5	75	62	52	46	73	61	52	45	58	51	45		56	50	44		55
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48
7	62	48	38	32	60	47	38	32	45	37	32		44	37	31		42
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		38
9	52	38	29	23	50	37	29	23	36	28	23		35	28	22		34
10	48	34	25	19	46	33	25	19	32	25	19		31	24	19		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2302	2302	2302	2302	2302
5°	2487	2443	2267	2047	2003
10°	2605	2382	2026	1737	1737
15°	3746	2338	1635	1498	1544
20°	9357	2497	1307	1307	1447
25°	43478	3194	992	1186	1355
30°	132172	4330	785	1089	1367
35°	223362	5006	669	1044	1312
40°	261833	4952	544	1059	1403
45°	275719	3504	434	1147	1520
50°	262473	2115	409	1194	1672
55°	219940	879	459	1338	1950
60°	123104	175	526	1535	2149
65°	21273	104	519	1712	2439
70°	385	128	641	1859	2757
75°	339	169	847	2118	3135
80°	253	253	1010	2399	3662
85°	0	503	2013	2516	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 277692 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.4
10°-20°	2.7	1.2
20°-30°	14.0	6.1
30°-40°	60.4	26.5
40°-50°	86.2	37.8
50°-60°	53.4	23.4
60°-70°	8.1	3.6
70°-80°	1.5	0.7
80°-90°	0.7	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°	17.6	7.7
0°-40°	78.0	34.2
0°-60°	217.6	95.4
0°-90°	228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	228.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	11	11	10	9	9	1
15°	16	10	7	7	7	6
25°	180	13	4	5	6	108
35°	834	19	2	4	5	501
45°	889	11	1	4	5	672
55°	575	2	1	4	5	490
65°	41	0	1	3	5	84
75°	0	0	1	2	4	0
85°	0	0	1	1	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°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.5	10.3
5°	11.3	11.3	11.1	11.1	11.1	11.1	11.1	11.1	10.7	10.3	9.7
7.5°	11.5	11.5	11.3	11.3	11.3	11.3	11.1	10.9	10.5	9.7	9.1
10°	11.7	11.7	11.7	11.7	11.5	11.3	11.1	10.7	10.1	9.1	8.4
12.5°	13.2	13.2	13.0	12.6	12.1	11.7	11.3	10.5	9.3	8.2	7.6
15°	16.5	16.3	15.8	15.2	14.4	13.4	12.6	10.3	8.4	7.2	6.8
17.5°	23.1	22.6	22.0	20.0	18.1	16.3	14.6	10.3	7.6	6.4	6.0
20°	40.1	40.3	36.0	31.1	27.0	22.4	18.3	10.7	6.8	5.6	5.4
22.5°	83.8	80.5	70.2	58.2	44.5	34.4	25.9	11.7	6.0	4.7	4.7
25°	179.7	167.1	142.2	107.4	75.7	53.7	37.7	13.2	5.4	4.1	4.3
27.5°	328.1	316.8	266.7	200.9	133.4	81.1	51.0	15.0	4.7	3.5	3.9
30°	522.0	490.7	425.4	329.3	222.9	124.1	68.5	17.1	3.9	3.1	3.7
31°	582.5	568.1	488.6	381.0	261.2	147.4	75.9	17.7	3.7	3.1	3.5
32°	654.3	628.8	557.6	437.6	300.1	168.2	84.8	18.3	3.5	2.7	3.5
33°	718.5	693.8	607.2	487.4	339.4	191.8	94.3	18.5	3.1	2.7	3.3
34°	786.0	752.3	666.4	539.5	379.7	217.3	102.9	18.7	2.9	2.5	3.3
35°	834.4	800.6	717.5	580.6	414.5	240.0	112.8	18.7	2.7	2.5	3.1
36°	871.8	842.2	761.5	623.0	449.1	260.4	120.6	18.7	2.3	2.3	3.1
37°	897.6	869.4	791.2	659.4	475.4	278.5	127.6	18.7	2.1	2.3	3.1
38°	910.1	886.7	819.8	686.0	501.0	292.7	133.2	18.3	1.9	2.1	2.9
39°	915.5	896.3	837.3	708.4	520.1	305.0	137.3	17.9	1.6	2.1	2.9
40°	914.7	898.0	847.2	723.9	535.5	313.5	139.5	17.3	1.4	1.9	2.9
41°	909.9	895.5	852.3	737.0	544.8	319.2	140.2	16.7	1.2	1.9	2.7
42°	904.6	891.4	853.9	744.0	550.8	321.1	138.5	15.8	1.2	1.6	2.7
43°	899.0	886.9	853.9	746.3	552.2	319.8	135.8	14.4	1.0	1.6	2.7
44°	894.5	883.0	851.3	745.7	549.1	315.1	130.9	12.8	0.8	1.6	2.7
45°	889.1	877.8	847.8	741.8	543.2	307.1	124.7	11.3	0.6	1.4	2.7
46°	879.7	870.8	841.6	733.7	533.7	296.0	116.9	10.3	0.4	1.4	2.5
47°	861.4	853.7	829.7	721.8	521.1	282.8	108.9	9.3	0.4	1.4	2.5
48°	824.5	824.3	805.8	699.6	501.2	266.3	100.4	8.2	0.4	1.4	2.5
49°	788.9	785.2	762.1	660.5	472.6	246.6	91.6	7.4	0.2	1.4	2.5
50°	769.4	761.3	723.5	614.4	435.9	219.2	82.1	6.2	0.2	1.2	2.5
51°	749.0	737.4	692.8	572.8	392.3	192.9	71.8	4.9	0.2	1.2	2.3
52°	712.1	701.2	651.2	533.1	349.9	165.9	62.0	4.1	0.2	1.2	2.5
53°	672.4	656.8	602.4	489.4	312.6	142.0	51.9	3.5	0.2	1.2	2.3
54°	622.4	615.4	553.0	435.9	269.0	119.0	42.6	2.9	0.2	1.2	2.3
55°	575.3	565.0	500.1	381.2	229.5	97.6	35.6	2.3	0.2	1.2	2.3
56°	515.2	499.7	439.0	331.0	189.4	78.6	30.0	1.9	0.2	1.2	2.3
57°	443.5	427.1	379.1	275.2	148.6	59.9	25.1	1.4	0.2	1.2	2.3
58°	375.2	361.0	309.6	212.4	112.0	41.6	20.8	1.0	0.2	1.0	2.3
59°	324.2	308.5	257.5	163.4	77.8	30.7	15.6	0.8	0.2	1.2	2.3
60°	280.7	260.6	207.3	126.6	55.6	22.0	11.5	0.4	0.4	1.2	2.3
62.5°	161.8	142.8	99.0	51.5	22.8	11.3	5.6	0.2	0.4	1.2	2.3
65°	41.0	36.4	23.7	11.1	6.4	3.9	2.1	0.2	0.4	1.0	2.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	1.4	1.4	1.4	1.2	1.0	0.8	0.4	0.2	0.4	1.0	2.1
70°	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.4	1.0	1.9
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	1.0	1.6
75°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	1.0	1.6
77.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.6	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	0.6
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°	10.5	10.5	10.5
2.5°	9.9	9.9	9.9
5°	9.3	9.3	9.1
7.5°	8.6	8.4	8.4
10°	7.8	7.8	7.8
12.5°	7.2	7.2	7.2
15°	6.6	6.8	6.8
17.5°	6.0	6.4	6.4
20°	5.6	6.0	6.2
22.5°	5.1	5.6	5.8
25°	4.9	5.4	5.6
27.5°	4.5	5.1	5.6
30°	4.3	4.9	5.4
31°	4.3	4.9	5.1
32°	4.1	4.9	5.1
33°	4.1	4.9	5.1
34°	4.1	4.7	5.1
35°	3.9	4.7	4.9
36°	3.9	4.7	4.9
37°	3.9	4.7	5.1
38°	3.9	4.7	4.9
39°	3.7	4.7	4.9
40°	3.7	4.7	4.9
41°	3.7	4.7	4.9
42°	3.7	4.7	4.9
43°	3.7	4.7	4.9
44°	3.7	4.5	4.9
45°	3.7	4.5	4.9
46°	3.7	4.7	4.9
47°	3.7	4.7	5.1
48°	3.7	4.5	4.9
49°	3.5	4.5	4.9
50°	3.5	4.5	4.9
51°	3.5	4.7	5.1
52°	3.5	4.7	5.1
53°	3.5	4.7	5.1
54°	3.5	4.7	4.9
55°	3.5	4.7	5.1
56°	3.5	4.7	4.9
57°	3.5	4.7	4.9
58°	3.5	4.5	4.9
59°	3.5	4.5	4.9
60°	3.5	4.5	4.9
62.5°	3.3	4.5	4.9
65°	3.3	4.3	4.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	3.1	4.3	4.5
70°	2.9	4.1	4.3
72.5°	2.7	3.9	4.1
75°	2.5	3.5	3.7
77.5°	2.1	3.1	3.5
80°	1.9	2.7	2.9
82.5°	1.4	2.3	2.5
85°	1.0	1.6	1.6
87.5°	0.4	0.8	0.8
90°	0.0	0.0	0.0

(END OF REPORT)