

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: P1338512

Luminaire Tested: P3A05R359835DE010 E3CA451MB

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338512
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: P3A05R359835DE010 E3CA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 98CRI , E3CA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

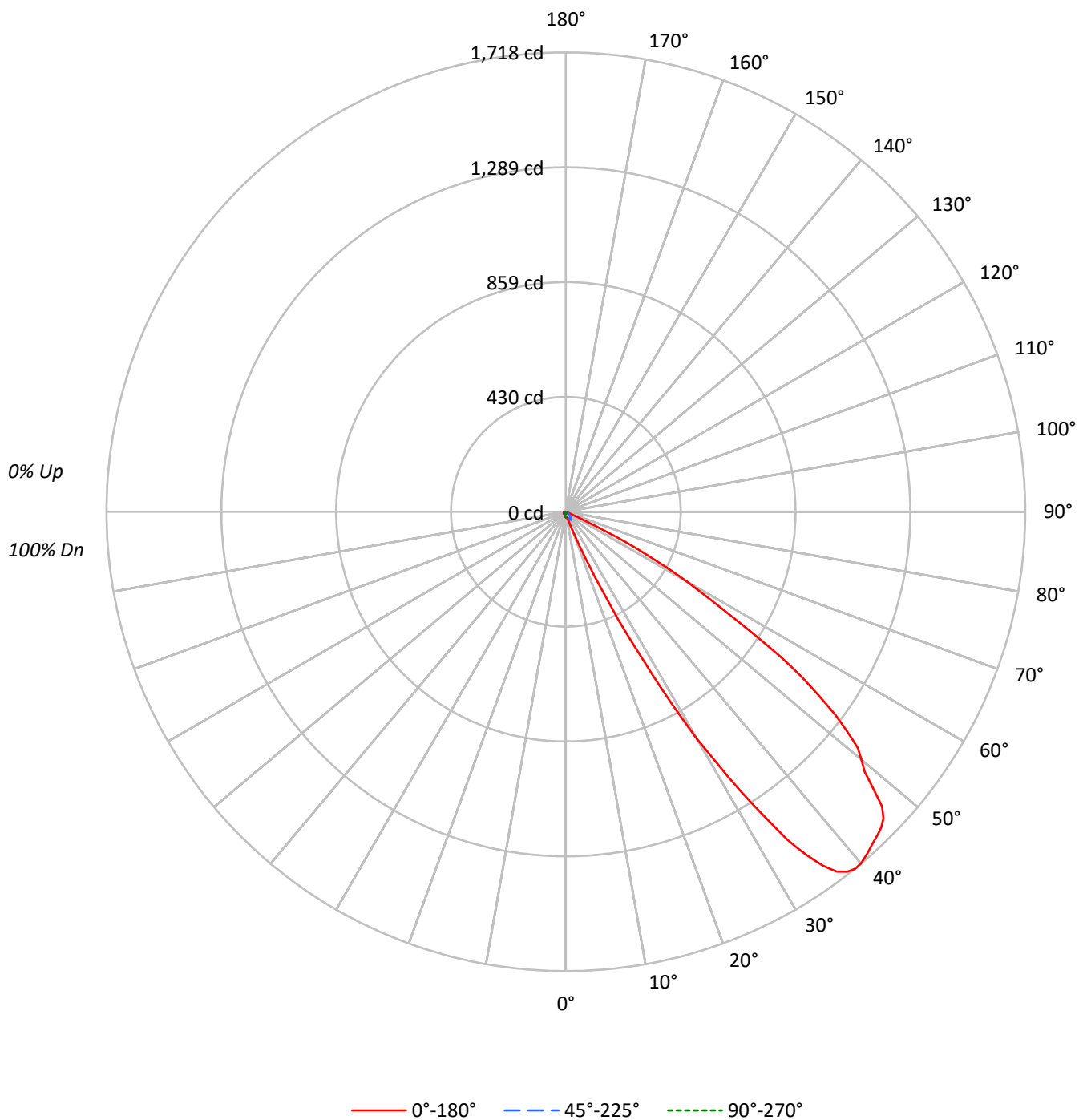
Lumens per Lamp: N/A
Luminaire Lumens: 428.0 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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	100	97	94	96	93	91	92	90	89
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4320	4320	4320	4320	4320
5°	4667	4600	4248	3830	3742
10°	4899	4476	3785	3273	3273
15°	7015	4381	3065	2815	2883
20°	17572	4690	2427	2427	2707
25°	81610	5976	1863	2250	2516
30°	248089	8128	1469	2051	2532
35°	419286	9423	1231	1954	2490
40°	491492	9303	1002	2004	2662
45°	517604	6574	837	2171	2884
50°	492675	3957	785	2252	3173
55°	412850	1606	879	2523	3708
60°	231122	351	1009	2895	4079
65°	39901	208	986	3217	4618
70°	769	256	1218	3462	5193
75°	678	339	1610	3897	5931
80°	505	505	1894	4420	6819
85°	0	1006	3774	4780	7799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 521261 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.4
10°-20°	5.0	1.2
20°-30°	26.3	6.1
30°-40°	113.4	26.5
40°-50°	161.8	37.8
50°-60°	100.2	23.4
60°-70°	15.3	3.6
70°-80°	2.9	0.7
80°-90°	1.4	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°	33.1	7.7
0°-40°	146.5	34.2
0°-60°	408.5	95.4
0°-90°	428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	428.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	21	21	19	17	17	2
15°	31	19	14	12	13	11
25°	337	25	8	9	10	202
35°	1566	35	5	7	9	940
45°	1669	21	3	7	9	1261
55°	1080	4	2	7	10	920
65°	77	0	2	6	9	157
75°	1	0	2	5	7	1
85°	0	0	2	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°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
2.5°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	19.7	19.3
5°	21.2	21.2	20.9	20.9	20.9	20.9	20.9	20.9	20.1	19.3	18.2
7.5°	21.6	21.6	21.2	21.2	21.2	21.2	20.9	20.5	19.7	18.2	17.0
10°	22.0	22.0	22.0	22.0	21.6	21.2	20.9	20.1	18.9	17.0	15.8
12.5°	24.7	24.7	24.3	23.6	22.8	22.0	21.2	19.7	17.4	15.5	14.3
15°	30.9	30.5	29.7	28.6	27.0	25.1	23.6	19.3	15.8	13.5	12.7
17.5°	43.3	42.5	41.3	37.5	34.0	30.5	27.4	19.3	14.3	12.0	11.2
20°	75.3	75.7	67.6	58.3	50.6	42.1	34.4	20.1	12.7	10.4	10.0
22.5°	157.2	151.1	131.7	109.3	83.5	64.5	48.7	22.0	11.2	8.9	8.9
25°	337.3	313.7	267.0	201.7	142.2	100.8	70.7	24.7	10.0	7.7	8.1
27.5°	615.9	594.6	500.7	377.1	250.4	152.2	95.8	28.2	8.9	6.6	7.3
30°	979.8	921.1	798.6	618.2	418.4	233.0	128.7	32.1	7.3	5.8	7.0
31°	1093.4	1066.4	917.2	715.2	490.3	276.6	142.6	33.2	7.0	5.8	6.6
32°	1228.2	1180.3	1046.7	821.4	563.3	315.7	159.2	34.4	6.6	5.0	6.6
33°	1348.8	1302.4	1139.8	914.9	637.1	360.1	177.0	34.8	5.8	5.0	6.2
34°	1475.5	1412.2	1251.0	1012.7	712.8	408.0	193.2	35.2	5.4	4.6	6.2
35°	1566.3	1502.9	1346.9	1089.9	778.1	450.5	211.7	35.2	5.0	4.6	5.8
36°	1636.6	1581.0	1429.5	1169.5	843.0	488.7	226.4	35.2	4.2	4.2	5.8
37°	1684.9	1632.0	1485.2	1237.9	892.5	522.7	239.5	35.2	3.9	4.2	5.8
38°	1708.5	1664.4	1538.9	1287.7	940.4	549.4	250.0	34.4	3.5	3.9	5.4
39°	1718.5	1682.6	1571.7	1329.9	976.3	572.6	257.7	33.6	3.1	3.9	5.4
40°	1717.0	1685.7	1590.3	1358.8	1005.3	588.4	262.0	32.5	2.7	3.5	5.4
41°	1708.1	1681.1	1599.9	1383.6	1022.7	599.2	263.1	31.3	2.3	3.5	5.0
42°	1698.1	1673.3	1603.0	1396.7	1033.9	602.7	260.0	29.7	2.3	3.1	5.0
43°	1687.6	1664.8	1603.0	1400.9	1036.6	600.4	255.0	27.0	1.9	3.1	5.0
44°	1679.1	1657.5	1598.0	1399.8	1030.8	591.5	245.7	24.0	1.5	3.1	5.0
45°	1669.1	1647.8	1591.4	1392.4	1019.6	576.5	234.1	21.2	1.2	2.7	5.0
46°	1651.3	1634.7	1579.8	1377.4	1001.8	555.6	219.5	19.3	0.8	2.7	4.6
47°	1616.9	1602.6	1557.4	1355.0	978.3	530.9	204.4	17.4	0.8	2.7	4.6
48°	1547.8	1547.4	1512.6	1313.2	940.8	500.0	188.5	15.5	0.8	2.7	4.6
49°	1480.9	1474.0	1430.7	1239.8	887.1	462.9	171.9	13.9	0.4	2.7	4.6
50°	1444.2	1429.2	1358.1	1153.3	818.3	411.5	154.2	11.6	0.4	2.3	4.6
51°	1406.0	1384.3	1300.5	1075.2	736.4	362.0	134.8	9.3	0.4	2.3	4.2
52°	1336.8	1316.3	1222.4	1000.7	656.8	311.4	116.3	7.7	0.4	2.3	4.6
53°	1262.2	1232.9	1130.9	918.8	586.9	266.6	97.4	6.6	0.4	2.3	4.2
54°	1168.4	1155.2	1038.2	818.3	505.0	223.3	80.0	5.4	0.4	2.3	4.2
55°	1079.9	1060.6	938.9	715.5	430.8	183.1	66.8	4.2	0.4	2.3	4.2
56°	967.1	938.1	824.1	621.3	355.5	147.6	56.4	3.5	0.4	2.3	4.2
57°	832.6	801.7	711.7	516.6	279.0	112.4	47.1	2.7	0.4	2.3	4.2
58°	704.3	677.7	581.1	398.7	210.2	78.0	39.0	1.9	0.4	1.9	4.2
59°	608.5	579.2	483.3	306.8	146.0	57.6	29.4	1.5	0.4	2.3	4.2
60°	527.0	489.1	389.1	237.6	104.3	41.3	21.6	0.8	0.8	2.3	4.2
62.5°	303.7	268.1	185.8	96.6	42.9	21.2	10.4	0.4	0.8	2.3	4.2
65°	76.9	68.4	44.4	20.9	12.0	7.3	3.9	0.4	0.8	1.9	3.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	2.7	2.7	2.7	2.3	1.9	1.5	0.8	0.4	0.8	1.9	3.9
70°	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.4	0.8	1.9	3.5
72.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	1.9	3.1
75°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	1.9	3.1
77.5°	0.8	0.8	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.5	2.7
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.5	2.3
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.5	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	1.2	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.5	1.2
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°	19.7	19.7	19.7
2.5°	18.5	18.5	18.5
5°	17.4	17.4	17.0
7.5°	16.2	15.8	15.8
10°	14.7	14.7	14.7
12.5°	13.5	13.5	13.5
15°	12.4	12.7	12.7
17.5°	11.2	12.0	12.0
20°	10.4	11.2	11.6
22.5°	9.7	10.4	10.8
25°	9.3	10.0	10.4
27.5°	8.5	9.7	10.4
30°	8.1	9.3	10.0
31°	8.1	9.3	9.7
32°	7.7	9.3	9.7
33°	7.7	9.3	9.7
34°	7.7	8.9	9.7
35°	7.3	8.9	9.3
36°	7.3	8.9	9.3
37°	7.3	8.9	9.7
38°	7.3	8.9	9.3
39°	7.0	8.9	9.3
40°	7.0	8.9	9.3
41°	7.0	8.9	9.3
42°	7.0	8.9	9.3
43°	7.0	8.9	9.3
44°	7.0	8.5	9.3
45°	7.0	8.5	9.3
46°	7.0	8.9	9.3
47°	7.0	8.9	9.7
48°	7.0	8.5	9.3
49°	6.6	8.5	9.3
50°	6.6	8.5	9.3
51°	6.6	8.9	9.7
52°	6.6	8.9	9.7
53°	6.6	8.9	9.7
54°	6.6	8.9	9.3
55°	6.6	8.9	9.7
56°	6.6	8.9	9.3
57°	6.6	8.9	9.3
58°	6.6	8.5	9.3
59°	6.6	8.5	9.3
60°	6.6	8.5	9.3
62.5°	6.2	8.5	9.3
65°	6.2	8.1	8.9



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CATALOG NUMBER: P3A05R359835DE010 E3CA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	5.8	8.1	8.5
70°	5.4	7.7	8.1
72.5°	5.0	7.3	7.7
75°	4.6	6.6	7.0
77.5°	3.9	5.8	6.6
80°	3.5	5.0	5.4
82.5°	2.7	4.2	4.6
85°	1.9	3.1	3.1
87.5°	0.8	1.5	1.5
90°	0.0	0.0	0.0

(END OF REPORT)