

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: P1337292

Luminaire Tested: P3A05R259024DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R259024DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 2400K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

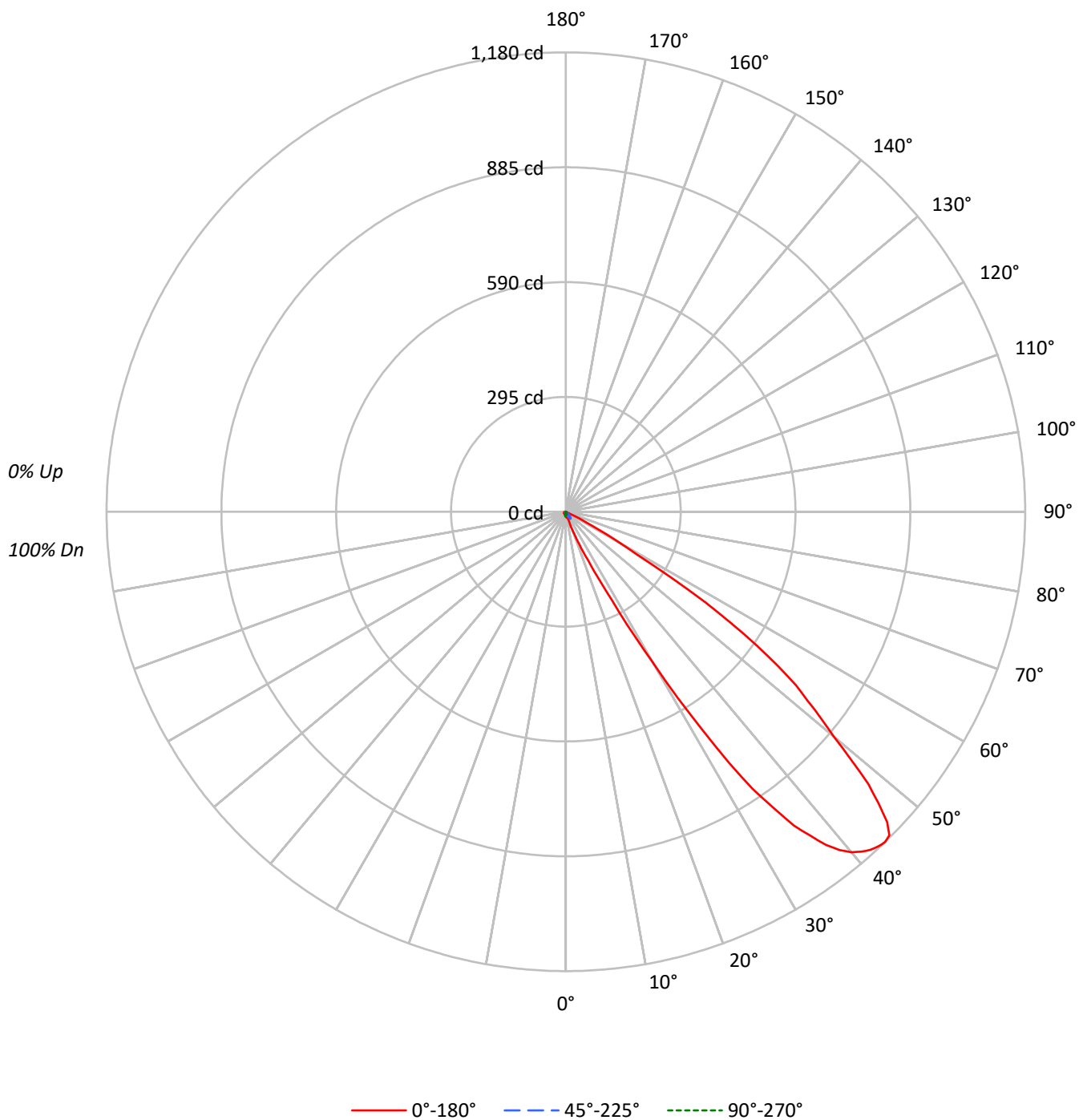
Lumens per Lamp: N/A
Luminaire Lumens: 246.0 lumens
Efficiency: N/A
Efficacy: 34.2 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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		108	104	101	97		100	97	94		96	94	92		92	91	89
2	101	93	87	82		98	91	86	81		88	83	79		85	81	77		82	78	75
3	92	81	74	67		89	80	73	67		77	71	66		74	69	64		72	67	63
4	83	71	62	56		81	70	62	55		67	60	55		65	59	54		63	58	53
5	75	62	53	46		73	61	53	46		59	51	46		57	50	45		55	49	45
6	68	55	45	39		66	54	45	39		52	44	38		50	43	38		48	42	37
7	62	48	39	32		60	47	39	32		46	38	32		44	37	32		43	36	32
8	57	43	34	27		55	42	33	27		40	33	27		39	32	27		38	32	27
9	52	38	29	23		51	37	29	23		36	28	23		35	28	23		34	27	23
10	48	34	25	20		47	33	25	20		32	25	20		31	24	19		30	24	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2763	2763	2763	2763	2763
5°	3148	2994	2663	2377	2333
10°	3140	2850	2271	1982	1982
15°	3496	2452	1771	1680	1771
20°	12321	2427	1353	1423	1563
25°	35470	3097	1089	1307	1524
30°	113131	4760	886	1266	1545
35°	247776	5622	750	1205	1553
40°	326870	5095	630	1231	1660
45°	364534	3566	589	1333	1799
50°	306856	1842	580	1399	1979
55°	229421	726	573	1567	2217
60°	71003	175	570	1710	2456
65°	6071	0	675	1816	2698
70°	385	128	705	2052	3077
75°	339	169	932	2203	3474
80°	253	253	1389	2399	4041
85°	503	503	2264	2768	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 364534 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	2.9	1.2
20°-30°	13.6	5.5
30°-40°	65.5	26.6
40°-50°	102.7	41.8
50°-60°	52.6	21.4
60°-70°	5.0	2.0
70°-80°	1.7	0.7
80°-90°	0.8	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	7.2
0°-40°	83.2	33.8
0°-60°	238.5	97.0
0°-90°	246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	246.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	14	14	12	11	11	1
15°	15	11	8	7	8	6
25°	147	13	4	5	6	91
35°	926	21	3	4	6	562
45°	1176	12	2	4	6	860
55°	600	2	2	4	6	500
65°	12	0	1	4	5	37
75°	0	0	1	3	4	0
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	13.6	13.6	13.6	13.6	13.6	13.6	13.4	13.4	13.6	13.4	13.4
5°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.1	14.1	14.1	13.6
7.5°	14.5	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.1	14.1	13.4
10°	14.1	14.1	14.1	14.1	13.9	13.9	13.9	13.6	13.6	13.6	12.8
12.5°	14.1	14.1	14.1	14.1	13.9	13.9	13.6	13.6	13.4	13.2	11.7
15°	15.4	15.4	15.4	15.2	14.9	14.7	14.5	14.3	14.1	13.6	10.8
17.5°	22.5	21.9	21.6	20.8	19.7	18.6	17.8	16.9	16.0	15.4	10.4
20°	52.8	52.6	51.5	48.9	46.1	42.9	39.6	35.9	30.7	27.3	10.4
22.5°	91.6	90.3	88.3	86.4	81.4	75.5	69.5	62.6	55.9	48.7	11.0
25°	146.6	149.6	143.1	137.9	129.2	118.6	107.2	97.6	85.5	74.3	12.8
27.5°	254.8	256.7	244.0	227.1	206.9	184.7	163.0	146.8	126.4	107.8	16.0
30°	446.8	448.8	427.3	391.4	349.8	313.2	263.7	220.2	180.1	149.2	18.8
31°	557.6	542.5	517.6	482.7	430.1	374.9	315.4	262.8	212.1	171.4	19.7
32°	654.0	652.7	623.7	570.8	518.0	449.8	376.0	307.4	245.3	194.0	20.3
33°	767.6	759.0	718.0	668.3	598.3	529.7	434.5	356.1	279.3	219.1	20.8
34°	858.8	835.4	818.5	761.6	687.7	600.3	498.3	407.6	321.7	243.3	21.0
35°	925.6	920.7	887.8	834.7	759.6	670.2	567.2	461.1	357.2	271.5	21.0
36°	996.4	981.1	949.0	901.0	827.8	735.4	619.8	507.4	398.5	296.8	20.8
37°	1040.8	1031.7	999.9	950.3	878.7	790.3	678.6	556.3	431.4	322.1	20.3
38°	1086.5	1068.1	1036.7	989.3	918.9	836.0	721.3	594.0	461.7	344.4	19.7
39°	1118.1	1099.0	1067.0	1019.8	951.0	868.7	755.1	626.0	488.1	361.1	18.8
40°	1141.9	1123.5	1091.0	1042.5	974.6	894.5	783.2	654.4	510.2	375.6	17.8
41°	1156.6	1139.5	1107.3	1059.0	990.8	909.2	801.6	672.8	525.2	385.3	16.7
42°	1169.0	1151.4	1118.5	1069.2	1000.8	921.7	812.9	684.5	535.3	390.3	15.8
43°	1175.9	1158.4	1126.3	1075.9	1006.8	927.6	818.9	689.9	538.8	389.7	14.3
44°	1179.8	1161.6	1129.3	1078.9	1009.4	929.1	819.4	688.8	536.4	384.5	13.0
45°	1175.5	1157.5	1126.3	1075.9	1004.9	924.3	815.0	683.0	527.3	374.3	11.5
46°	1147.3	1133.5	1104.9	1058.6	990.6	912.2	804.0	671.7	513.3	361.7	9.7
47°	1097.7	1086.7	1059.0	1024.6	963.1	889.9	783.6	650.3	493.6	342.9	7.8
48°	1046.0	1029.8	1004.0	968.7	916.8	849.9	750.1	618.9	463.7	318.2	6.9
49°	969.6	960.1	937.3	897.9	854.9	796.0	702.7	578.6	427.1	291.4	6.1
50°	899.5	893.0	861.1	832.1	786.5	731.5	638.4	525.6	381.6	258.0	5.4
51°	844.7	836.9	813.9	777.8	729.1	665.2	577.6	456.8	329.5	218.4	4.3
52°	787.5	783.2	762.9	725.6	677.8	614.1	518.5	398.3	278.8	184.7	3.5
53°	740.8	734.5	709.6	676.5	624.7	558.9	454.4	344.0	236.2	155.2	3.0
54°	672.6	670.0	654.0	619.3	563.3	491.6	396.4	289.6	197.0	131.6	2.6
55°	600.1	591.4	575.2	547.7	496.2	429.3	329.3	240.1	159.3	110.8	1.9
56°	511.7	511.3	482.3	459.4	413.7	342.7	263.0	187.5	129.5	92.4	1.7
57°	427.3	413.7	385.8	363.0	313.9	260.0	195.3	140.5	101.3	74.9	1.3
58°	316.1	308.9	301.5	268.2	222.8	184.2	139.4	98.7	74.9	57.1	0.9
59°	214.5	214.3	205.7	180.3	154.1	114.7	87.0	67.1	51.5	42.0	0.6
60°	161.9	158.0	140.7	124.0	97.0	72.5	51.5	39.6	32.0	27.1	0.4
62.5°	56.7	58.9	51.7	42.9	32.7	26.8	20.6	16.7	13.6	11.0	0.0
65°	11.7	12.8	11.0	10.4	8.2	7.1	6.3	5.4	4.5	3.9	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	1.5	1.3	1.3	1.3	1.1	1.1	1.1	1.1	0.9	0.9	0.2
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2
72.5°	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	12.6	12.6	12.6	12.6	12.6	12.6
2.5°	13.2	12.8	12.1	11.9	11.7	11.7
5°	13.0	12.1	11.5	10.8	10.6	10.6
7.5°	12.3	11.3	10.4	10.0	9.7	9.5
10°	11.7	10.2	9.3	8.9	8.9	8.9
12.5°	10.4	9.1	8.2	8.0	8.2	8.2
15°	9.3	7.8	7.4	7.4	7.6	7.8
17.5°	8.0	6.9	6.5	6.7	6.9	7.1
20°	7.1	5.8	5.8	6.1	6.7	6.7
22.5°	6.3	5.2	5.2	5.8	6.3	6.5
25°	5.6	4.5	4.8	5.4	6.1	6.3
27.5°	4.8	3.9	4.3	5.2	5.8	6.1
30°	4.1	3.5	4.1	5.0	5.6	6.1
31°	3.9	3.2	4.1	4.8	5.6	6.1
32°	3.5	3.2	3.9	4.8	5.6	5.8
33°	3.2	3.0	3.9	4.8	5.6	5.8
34°	3.0	2.8	3.7	4.8	5.6	5.8
35°	2.6	2.8	3.7	4.5	5.4	5.8
36°	2.4	2.6	3.7	4.5	5.4	5.8
37°	2.2	2.6	3.5	4.5	5.4	5.8
38°	1.9	2.4	3.5	4.5	5.4	5.8
39°	1.7	2.4	3.2	4.5	5.4	5.8
40°	1.5	2.2	3.2	4.3	5.4	5.8
41°	1.5	2.2	3.2	4.3	5.4	5.8
42°	1.3	2.2	3.2	4.3	5.4	5.8
43°	1.1	1.9	3.2	4.3	5.4	5.8
44°	0.9	1.9	3.0	4.3	5.4	5.8
45°	0.9	1.9	3.0	4.3	5.4	5.8
46°	0.6	1.7	3.0	4.3	5.4	5.8
47°	0.4	1.7	3.0	4.1	5.4	5.8
48°	0.4	1.7	3.0	4.1	5.4	5.8
49°	0.4	1.7	2.8	4.1	5.4	5.8
50°	0.4	1.7	2.8	4.1	5.4	5.8
51°	0.2	1.5	2.8	4.1	5.4	5.8
52°	0.2	1.5	2.8	4.1	5.4	6.1
53°	0.2	1.5	2.8	4.1	5.4	5.8
54°	0.2	1.5	2.6	4.1	5.4	5.8
55°	0.2	1.5	2.6	4.1	5.4	5.8
56°	0.2	1.3	2.6	3.9	5.4	5.8
57°	0.4	1.3	2.6	3.9	5.4	5.6
58°	0.4	1.3	2.6	3.9	5.2	5.6
59°	0.4	1.3	2.6	3.9	5.2	5.6
60°	0.4	1.3	2.4	3.9	5.2	5.6
62.5°	0.4	1.3	2.4	3.7	5.0	5.4
65°	0.4	1.3	2.2	3.5	5.0	5.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.1	2.2	3.2	4.8	5.0
70°	0.6	1.1	1.9	3.2	4.5	4.8
72.5°	0.6	1.1	1.9	2.8	4.1	4.5
75°	0.6	1.1	1.7	2.6	3.9	4.1
77.5°	0.6	1.1	1.5	2.4	3.5	3.7
80°	0.9	1.1	1.3	1.9	3.0	3.2
82.5°	0.9	1.1	1.1	1.5	2.4	2.6
85°	0.6	0.9	0.9	1.1	1.5	1.7
87.5°	0.6	0.9	0.6	0.4	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)