

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: P1337474

Luminaire Tested: P3A05R259830DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337474
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: P3A05R259830DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R25 optic, 3000K CCT AND, 98CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

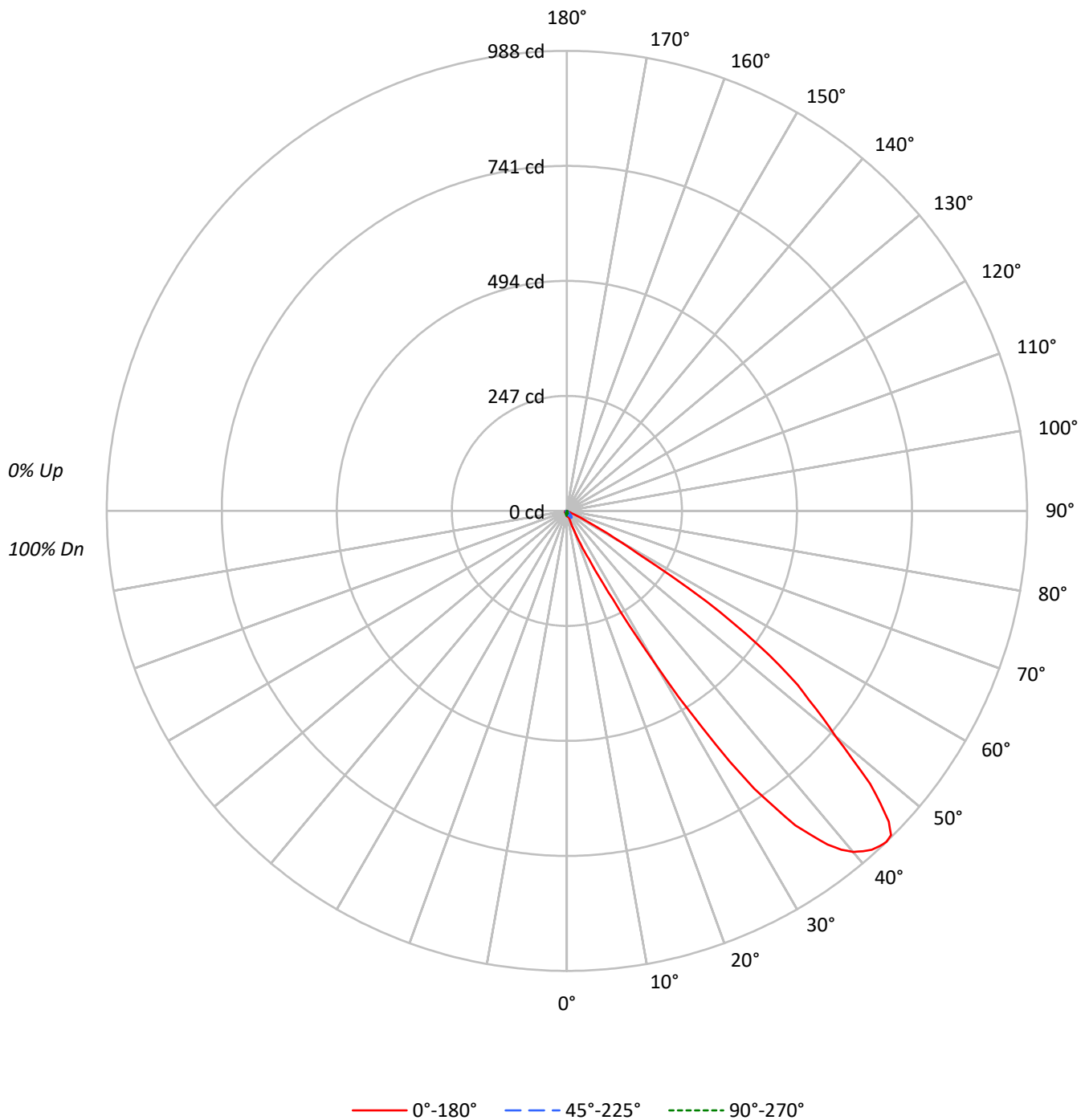
Lumens per Lamp: N/A
Luminaire Lumens: 206.0 lumens
Efficiency: N/A
Efficacy: 28.6 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1337474

CATALOG NUMBER: P3A05R259830DE010 E3A451WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1337474

CATALOG NUMBER: P3A05R259830DE010 E3A451WMH

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	108	104	101	97	100	97	94		96	94	92		92	91	89	87
2	101	93	87	82	98	91	86	81	88	83	79		85	81	77		82	78	75	73
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72	67	63	61
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	42
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48	42	37	35
7	62	48	39	32	60	47	39	32	46	38	32		44	37	32		43	36	32	29
8	57	43	34	27	55	42	33	27	40	33	27		39	32	27		38	32	27	25
9	52	38	29	23	51	37	29	23	36	28	23		35	28	23		34	27	23	21
10	48	34	25	20	47	33	25	20	32	25	20		31	24	19		30	24	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2302	2302	2302	2302	2302
5°	2641	2509	2245	2003	1959
10°	2627	2382	1893	1648	1648
15°	2929	2066	1476	1407	1476
20°	10314	2030	1143	1190	1307
25°	29687	2589	919	1089	1282
30°	94749	4001	734	1063	1291
35°	207488	4711	642	1017	1312
40°	273713	4265	515	1031	1403
45°	305241	2977	496	1116	1520
50°	256947	1535	512	1160	1672
55°	192108	612	497	1300	1873
60°	59469	175	482	1447	2061
65°	5085	0	571	1505	2283
70°	321	128	577	1731	2565
75°	339	169	763	1864	2881
80°	253	253	1137	2020	3410
85°	503	503	1761	2264	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 305241 cd/sqm

TEST NUMBER: P1337474

CATALOG NUMBER: P3A05R259830DE010 E3A451WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.9	0.5
10°-20°	2.4	1.2
20°-30°	11.4	5.5
30°-40°	54.9	26.6
40°-50°	86.0	41.7
50°-60°	44.1	21.4
60°-70°	4.2	2.0
70°-80°	1.4	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°	14.8	7.2
0°-40°	69.6	33.8
0°-60°	199.7	97.0
0°-90°	206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	206.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	12	11	10	9	9	1
15°	13	9	6	6	6	5
25°	123	11	4	4	5	76
35°	775	18	2	4	5	471
45°	984	10	2	4	5	720
55°	502	2	1	3	5	418
65°	10	0	1	3	4	31
75°	0	0	1	2	3	0
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1337474

CATALOG NUMBER: P3A05R259830DE010 E3A451WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
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°	11.4	11.4	11.4	11.4	11.4	11.4	11.2	11.2	11.4	11.2	11.2
5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.8	11.8	11.8	11.4
7.5°	12.1	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.8	11.8	11.2
10°	11.8	11.8	11.8	11.8	11.6	11.6	11.6	11.4	11.4	11.4	10.7
12.5°	11.8	11.8	11.8	11.8	11.6	11.6	11.4	11.4	11.2	11.1	9.8
15°	12.9	12.9	12.9	12.7	12.5	12.3	12.1	12.0	11.8	11.4	9.1
17.5°	18.9	18.3	18.1	17.4	16.5	15.6	14.9	14.1	13.4	12.9	8.7
20°	44.2	44.0	43.1	41.0	38.6	35.9	33.2	30.1	25.7	22.8	8.7
22.5°	76.7	75.6	74.0	72.3	68.2	63.3	58.2	52.4	46.8	40.8	9.2
25°	122.7	125.3	119.8	115.5	108.2	99.3	89.7	81.8	71.6	62.2	10.7
27.5°	213.4	215.0	204.3	190.2	173.3	154.6	136.5	122.9	105.9	90.3	13.4
30°	374.2	375.8	357.8	327.7	292.9	262.3	220.8	184.4	150.8	124.9	15.8
31°	467.0	454.3	433.4	404.2	360.2	314.0	264.1	220.1	177.6	143.6	16.5
32°	547.6	546.5	522.3	478.0	433.8	376.7	314.9	257.4	205.4	162.4	17.0
33°	642.8	635.6	601.3	559.6	501.0	443.6	363.8	298.2	233.8	183.5	17.4
34°	719.1	699.5	685.4	637.7	575.9	502.7	417.3	341.3	269.4	203.8	17.6
35°	775.1	771.0	743.4	699.0	636.1	561.2	474.9	386.1	299.1	227.3	17.6
36°	834.4	821.5	794.7	754.5	693.2	615.8	519.0	424.9	333.7	248.5	17.4
37°	871.6	864.0	837.3	795.8	735.8	661.8	568.3	465.9	361.3	269.7	17.0
38°	909.8	894.4	868.1	828.4	769.5	700.1	604.0	497.4	386.7	288.4	16.5
39°	936.3	920.3	893.5	854.0	796.3	727.5	632.3	524.2	408.8	302.4	15.8
40°	956.2	940.8	913.6	873.0	816.1	749.0	655.9	548.0	427.3	314.5	14.9
41°	968.6	954.2	927.2	886.8	829.7	761.4	671.3	563.4	439.8	322.7	14.0
42°	978.9	964.2	936.6	895.3	838.0	771.9	680.7	573.2	448.3	326.8	13.2
43°	984.7	970.0	943.2	900.9	843.1	776.8	685.8	577.7	451.2	326.3	12.0
44°	987.9	972.7	945.7	903.5	845.3	778.0	686.1	576.8	449.2	321.9	10.9
45°	984.3	969.3	943.2	900.9	841.5	774.0	682.5	571.9	441.6	313.4	9.6
46°	960.8	949.2	925.2	886.4	829.5	763.9	673.3	562.5	429.8	302.9	8.2
47°	919.2	910.0	886.8	858.0	806.5	745.2	656.2	544.6	413.3	287.1	6.5
48°	875.9	862.3	840.8	811.2	767.7	711.7	628.1	518.3	388.3	266.5	5.8
49°	811.9	804.0	784.9	751.9	715.9	666.5	588.4	484.5	357.7	244.0	5.1
50°	753.2	747.8	721.1	696.8	658.6	612.5	534.6	440.1	319.6	216.1	4.5
51°	707.3	700.8	681.6	651.3	610.5	557.1	483.6	382.5	275.9	182.9	3.6
52°	659.5	655.9	638.8	607.6	567.6	514.3	434.2	333.5	233.5	154.6	2.9
53°	620.3	615.1	594.2	566.5	523.2	468.1	380.5	288.0	197.8	130.0	2.5
54°	563.2	561.0	547.6	518.6	471.7	411.7	331.9	242.5	165.0	110.2	2.2
55°	502.5	495.2	481.6	458.6	415.5	359.5	275.7	201.0	133.4	92.8	1.6
56°	428.5	428.2	403.9	384.7	346.4	287.0	220.2	157.0	108.4	77.4	1.5
57°	357.8	346.4	323.0	304.0	262.8	217.7	163.5	117.6	84.8	62.7	1.1
58°	264.7	258.7	252.5	224.6	186.5	154.3	116.7	82.7	62.7	47.9	0.7
59°	179.6	179.5	172.2	151.0	129.1	96.1	72.9	56.2	43.1	35.2	0.5
60°	135.6	132.3	117.8	103.9	81.2	60.7	43.1	33.2	26.8	22.7	0.4
62.5°	47.5	49.3	43.3	35.9	27.4	22.5	17.2	14.0	11.4	9.2	0.0
65°	9.8	10.7	9.2	8.7	6.9	6.0	5.3	4.5	3.8	3.3	0.0



TEST NUMBER: P1337474

CATALOG NUMBER: P3A05R259830DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	1.3	1.1	1.1	1.1	0.9	0.9	0.9	0.9	0.7	0.7	0.2
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.2
72.5°	0.5	0.5	0.5	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

TEST NUMBER: P1337474

CATALOG NUMBER: P3A05R259830DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	10.5	10.5	10.5	10.5	10.5	10.5
2.5°	11.1	10.7	10.2	10.0	9.8	9.8
5°	10.9	10.2	9.6	9.1	8.9	8.9
7.5°	10.3	9.4	8.7	8.3	8.2	8.0
10°	9.8	8.5	7.8	7.4	7.4	7.4
12.5°	8.7	7.6	6.9	6.7	6.9	6.9
15°	7.8	6.5	6.2	6.2	6.3	6.5
17.5°	6.7	5.8	5.4	5.6	5.8	6.0
20°	6.0	4.9	4.9	5.1	5.6	5.6
22.5°	5.3	4.4	4.4	4.9	5.3	5.4
25°	4.7	3.8	4.0	4.5	5.1	5.3
27.5°	4.0	3.3	3.6	4.4	4.9	5.1
30°	3.4	2.9	3.4	4.2	4.7	5.1
31°	3.3	2.7	3.4	4.0	4.7	5.1
32°	2.9	2.7	3.3	4.0	4.7	4.9
33°	2.7	2.5	3.3	4.0	4.7	4.9
34°	2.5	2.4	3.1	4.0	4.7	4.9
35°	2.2	2.4	3.1	3.8	4.5	4.9
36°	2.0	2.2	3.1	3.8	4.5	4.9
37°	1.8	2.2	2.9	3.8	4.5	4.9
38°	1.6	2.0	2.9	3.8	4.5	4.9
39°	1.5	2.0	2.7	3.8	4.5	4.9
40°	1.3	1.8	2.7	3.6	4.5	4.9
41°	1.3	1.8	2.7	3.6	4.5	4.9
42°	1.1	1.8	2.7	3.6	4.5	4.9
43°	0.9	1.6	2.7	3.6	4.5	4.9
44°	0.7	1.6	2.5	3.6	4.5	4.9
45°	0.7	1.6	2.5	3.6	4.5	4.9
46°	0.5	1.5	2.5	3.6	4.5	4.9
47°	0.4	1.5	2.5	3.4	4.5	4.9
48°	0.4	1.5	2.5	3.4	4.5	4.9
49°	0.4	1.5	2.4	3.4	4.5	4.9
50°	0.4	1.5	2.4	3.4	4.5	4.9
51°	0.2	1.3	2.4	3.4	4.5	4.9
52°	0.2	1.3	2.4	3.4	4.5	5.1
53°	0.2	1.3	2.4	3.4	4.5	4.9
54°	0.2	1.3	2.2	3.4	4.5	4.9
55°	0.2	1.3	2.2	3.4	4.5	4.9
56°	0.2	1.1	2.2	3.3	4.5	4.9
57°	0.4	1.1	2.2	3.3	4.5	4.7
58°	0.4	1.1	2.2	3.3	4.4	4.7
59°	0.4	1.1	2.2	3.3	4.4	4.7
60°	0.4	1.1	2.0	3.3	4.4	4.7
62.5°	0.4	1.1	2.0	3.1	4.2	4.5
65°	0.4	1.1	1.8	2.9	4.2	4.4



TEST NUMBER: P1337474

CATALOG NUMBER: P3A05R259830DE010 E3A451WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	0.9	1.8	2.7	4.0	4.2
70°	0.5	0.9	1.6	2.7	3.8	4.0
72.5°	0.5	0.9	1.6	2.4	3.4	3.8
75°	0.5	0.9	1.5	2.2	3.3	3.4
77.5°	0.5	0.9	1.3	2.0	2.9	3.1
80°	0.7	0.9	1.1	1.6	2.5	2.7
82.5°	0.7	0.9	0.9	1.3	2.0	2.2
85°	0.5	0.7	0.7	0.9	1.3	1.5
87.5°	0.5	0.7	0.5	0.4	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)