

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: P1337854

Luminaire Tested: P3A05R309035DE010 E3A451WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R309035DE010 E3A451WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

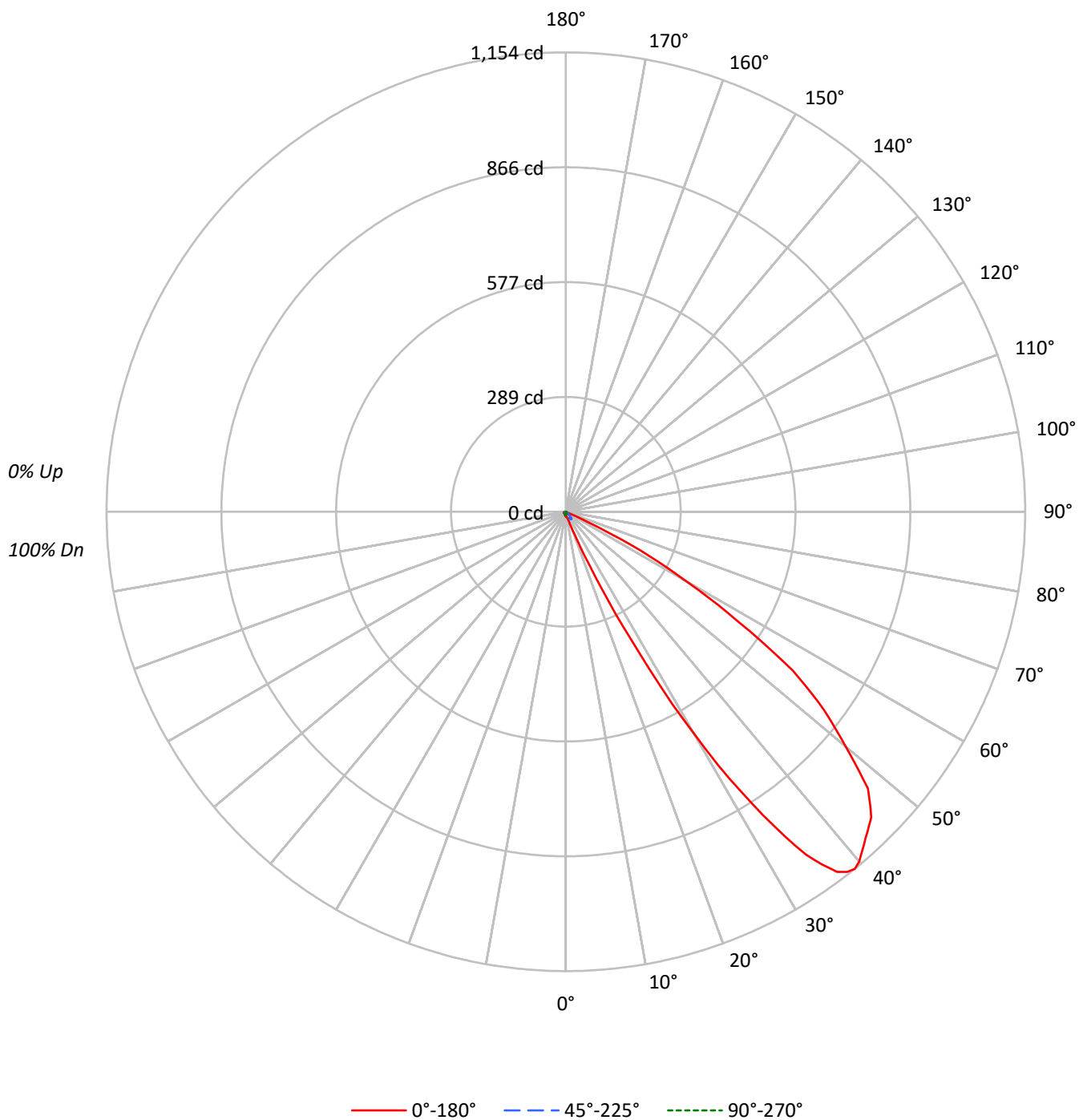
Lumens per Lamp: N/A
Luminaire Lumens: 300.1 lumens
Efficiency: N/A
Efficacy: 41.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
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	100	97	100	97	94	96	93	91	92	90	89	87		
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	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	24		
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2544	2544	2544	2544	2544
5°	2729	2663	2509	2289	2223
10°	2984	2650	2204	1959	1915
15°	4359	2633	1839	1657	1725
20°	10968	2894	1423	1423	1587
25°	50930	3605	1089	1282	1476
30°	162152	4988	836	1215	1469
35°	281345	6077	669	1151	1499
40°	328129	6069	515	1145	1517
45°	336500	4311	558	1240	1644
50°	312928	2422	443	1296	1910
55°	265969	1262	497	1453	2141
60°	153628	351	570	1535	2324
65°	31339	0	675	1816	2646
70°	513	192	833	2116	3077
75°	424	254	847	2118	3643
80°	379	379	1263	2526	4167
85°	0	755	2516	2516	5032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 336500 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.4
10°-20°	3.0	1.0
20°-30°	17.3	5.8
30°-40°	80.8	26.9
40°-50°	114.3	38.1
50°-60°	70.3	23.4
60°-70°	10.7	3.6
70°-80°	1.7	0.6
80°-90°	0.9	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°	21.4	7.1
0°-40°	102.2	34.1
0°-60°	286.8	95.6
0°-90°	300.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	300.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	12	12	11	10	10	1
15°	19	12	8	7	8	7
25°	210	15	4	5	6	130
35°	1051	23	2	4	6	631
45°	1085	14	2	4	5	823
55°	696	3	1	4	6	592
65°	60	0	1	4	5	109
75°	0	0	1	2	4	1
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°	22.5°	45°	67.5°	90°	112.5°	135°
0°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
2.5°	11.9	11.9	12.1	12.1	11.9	12.1	12.1	12.1	11.6	11.4	10.9
5°	12.4	12.4	12.4	12.6	12.4	12.4	12.1	11.9	11.4	10.6	10.4
7.5°	12.9	12.9	12.6	12.9	12.6	12.6	12.1	11.6	10.9	10.1	9.6
10°	13.4	13.4	13.1	13.1	12.9	12.9	11.9	11.1	9.9	9.1	8.8
12.5°	14.9	14.9	14.7	14.4	13.9	13.6	11.6	10.4	8.8	8.1	7.8
15°	19.2	19.0	18.4	17.7	16.4	16.2	11.6	9.6	8.1	7.3	7.3
17.5°	26.3	26.0	25.3	23.2	21.0	20.2	11.6	8.6	7.1	6.6	6.6
20°	47.0	45.0	41.2	36.1	30.8	28.1	12.4	7.6	6.1	5.8	6.1
21°	61.4	59.4	54.6	46.2	36.9	33.9	12.9	7.3	5.8	5.6	6.1
22°	83.6	81.4	71.5	60.1	46.8	41.4	13.1	6.8	5.3	5.3	5.8
23°	116.8	113.0	96.3	78.1	58.4	50.8	13.6	6.6	5.1	5.3	5.6
24°	152.9	149.6	130.6	103.4	74.5	63.7	14.2	6.3	4.8	4.8	5.3
25°	210.5	206.7	173.1	130.4	94.5	76.6	14.9	5.8	4.5	4.5	5.3
26°	285.1	267.6	222.9	168.1	116.5	96.0	15.7	5.6	4.3	4.5	5.1
27°	355.8	341.4	291.1	215.6	144.0	118.0	16.7	5.3	4.0	4.3	5.1
28°	448.8	428.6	365.2	272.7	181.4	142.8	17.7	5.1	3.8	4.3	4.8
29°	552.9	524.6	448.1	336.9	223.6	170.6	18.7	4.8	3.5	4.0	4.8
30°	640.4	613.8	537.3	412.9	272.2	207.2	19.7	4.5	3.3	4.0	4.8
31°	743.0	702.8	610.0	477.4	313.9	243.9	20.7	4.0	3.0	3.8	4.5
32°	826.1	798.0	699.5	550.1	368.7	284.3	21.5	3.8	3.0	3.8	4.5
33°	906.5	868.8	773.5	619.9	418.2	325.7	22.2	3.5	2.8	3.5	4.5
34°	983.3	948.7	843.5	676.2	465.0	365.2	22.7	3.0	2.8	3.5	4.3
35°	1051.0	1010.8	905.2	731.3	513.0	401.0	22.7	2.8	2.5	3.3	4.3
36°	1095.0	1066.2	958.8	785.7	556.5	435.2	22.7	2.5	2.3	3.3	4.0
37°	1132.6	1099.0	1001.7	827.4	588.6	462.5	22.7	2.3	2.3	3.3	4.0
38°	1148.0	1119.2	1031.3	864.3	618.6	490.3	22.5	2.0	2.0	3.0	4.0
39°	1154.1	1128.3	1053.5	890.8	640.9	509.0	22.0	1.8	2.0	3.0	4.0
40°	1146.3	1126.8	1064.9	908.0	658.6	522.6	21.2	1.5	1.8	3.0	4.0
42.5°	1113.9	1101.0	1062.4	925.2	673.7	532.7	18.4	1.0	1.8	2.8	4.0
45°	1085.1	1071.0	1036.9	907.2	654.0	512.7	13.9	0.5	1.8	2.8	4.0
47.5°	1029.3	1020.4	993.6	861.5	610.8	467.8	9.9	0.3	1.5	2.5	3.8
50°	917.3	909.0	873.6	748.0	525.4	395.5	7.1	0.3	1.3	2.5	3.8
52.5°	817.0	808.2	757.4	621.9	403.6	289.9	4.5	0.3	1.3	2.5	3.8
55°	695.7	680.3	613.6	472.1	286.1	194.3	3.3	0.3	1.3	2.3	3.8
57.5°	515.0	492.5	432.9	321.9	164.8	105.4	1.8	0.3	1.3	2.3	3.8
60°	350.3	336.9	270.9	169.8	70.3	44.5	0.8	0.3	1.3	2.3	3.5
62.5°	212.3	195.3	136.2	72.3	30.3	20.2	0.0	0.5	1.3	2.3	3.5
65°	60.4	53.6	35.6	16.4	8.6	6.6	0.0	0.5	1.3	2.3	3.5
67.5°	2.0	2.0	2.0	1.8	1.3	1.3	0.3	0.5	1.3	2.3	3.3
70°	0.8	0.8	0.8	0.5	0.5	0.3	0.3	0.5	1.3	2.0	3.3
72.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.5	1.0	1.8	3.0
75°	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.8	1.0	1.8	2.5
77.5°	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.8	1.0	1.5	2.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8	1.0	1.5	2.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.8	1.0	1.0	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.0	0.8	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.8	0.8	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):

	157.5°	180°
0°	11.6	11.6
2.5°	10.9	10.9
5°	10.1	10.1
7.5°	9.4	9.4
10°	8.6	8.6
12.5°	8.1	8.1
15°	7.3	7.6
17.5°	6.8	7.1
20°	6.6	6.8
21°	6.6	6.8
22°	6.3	6.6
23°	6.3	6.6
24°	6.1	6.3
25°	5.8	6.1
26°	5.8	6.1
27°	5.8	6.1
28°	5.6	6.1
29°	5.6	5.8
30°	5.6	5.8
31°	5.3	5.8
32°	5.3	5.8
33°	5.3	5.6
34°	5.1	5.6
35°	5.1	5.6
36°	5.1	5.6
37°	5.1	5.3
38°	5.1	5.6
39°	5.1	5.3
40°	5.1	5.3
42.5°	5.1	5.3
45°	5.1	5.3
47.5°	5.1	5.6
50°	5.1	5.6
52.5°	5.1	5.6
55°	5.1	5.6
57.5°	5.1	5.3
60°	5.1	5.3
62.5°	4.8	5.3
65°	4.8	5.1
67.5°	4.8	5.1
70°	4.5	4.8
72.5°	4.3	4.5
75°	3.8	4.3
77.5°	3.5	3.8
80°	3.0	3.3

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	2.5	2.5
85°	1.8	2.0
87.5°	1.0	1.0
90°	0.0	0.0

(END OF REPORT)