

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: P1334414

Luminaire Tested: P3A02R209730DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R209730DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

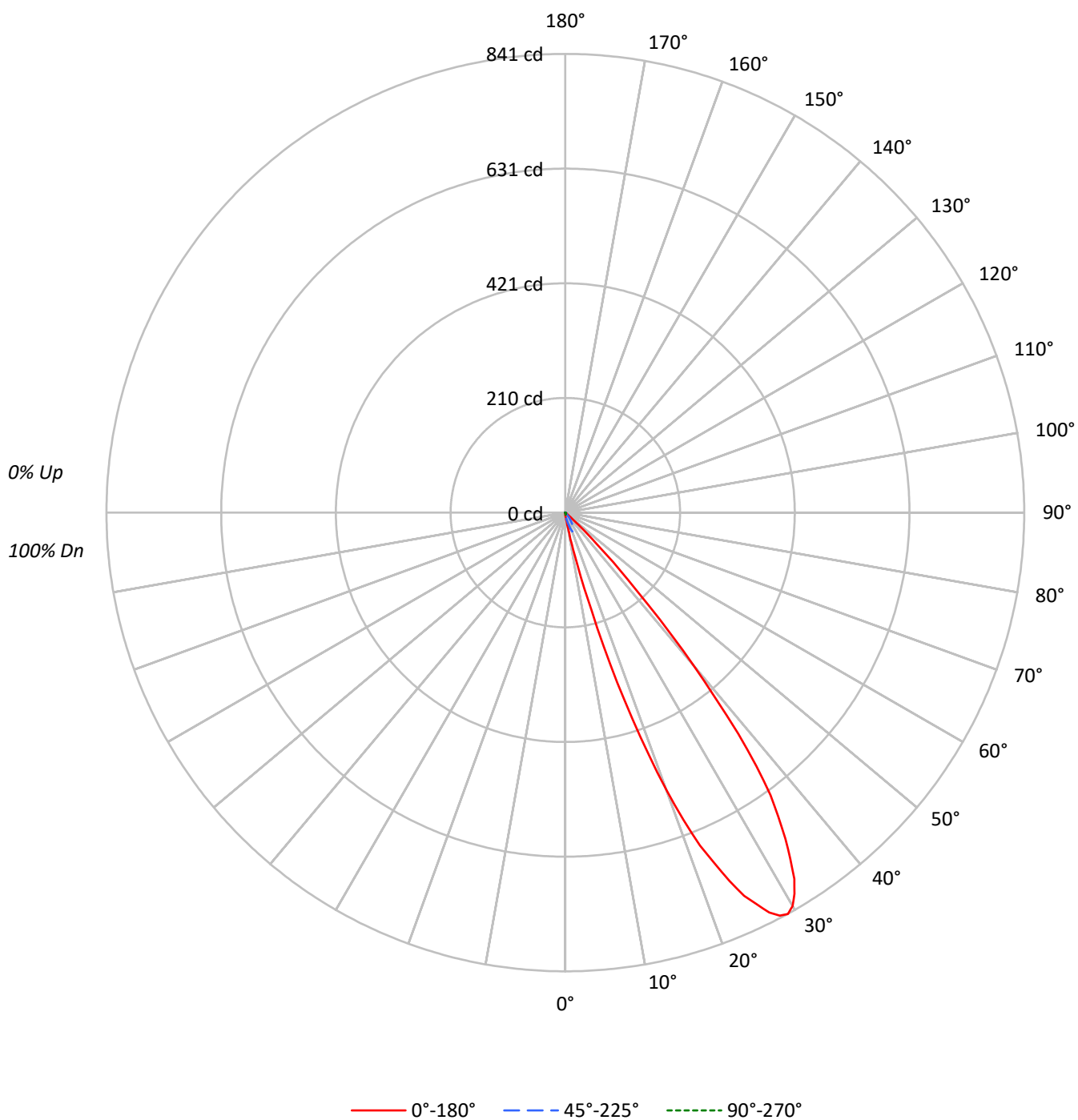
Lumens per Lamp: N/A
Luminaire Lumens: 117.9 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.52 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1334414

CATALOG NUMBER: P3A02R209730DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1334414

CATALOG NUMBER: P3A02R209730DE010 E3A301WMH

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	57	57	55
7	76	65	58	53	74	64	58	53	63	57	52	62	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	899	899	899	899	899
5°	2047	1541	858	528	440
10°	6457	2672	690	289	223
15°	41839	4926	499	91	23
20°	126314	8447	350	0	0
25°	187583	8517	218	0	0
30°	210944	6482	76	0	0
35°	182004	3882	54	0	0
40°	104796	1317	0	0	0
45°	25553	527	31	0	31
50°	3070	136	34	34	102
55°	421	0	76	76	153
60°	44	0	132	132	219
65°	52	52	208	208	311
70°	64	64	256	256	321
75°	0	85	339	254	339
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 25739 cd/sqm

TEST NUMBER: P1334414

CATALOG NUMBER: P3A02R209730DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.5	0.5
10°-20°	10.9	9.3
20°-30°	47.7	40.4
30°-40°	48.0	40.7
40°-50°	9.6	8.2
50°-60°	0.5	0.4
60°-70°	0.3	0.3
70°-80°	0.3	0.2
80°-90°	0.1	0.1
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°	59.1	50.1
0°-40°	107.1	90.8
0°-60°	117.2	99.4
0°-90°	117.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	117.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4	4	4	4	4	
5°	9	7	4	2	2	1
15°	184	22	2	0	0	72
25°	775	35	1	0	0	350
35°	680	14	0	0	0	405
45°	82	2	0	0	0	90
55°	1	0	0	0	0	2
65°	0	0	0	0	1	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1334414

CATALOG NUMBER: P3A02R209730DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
2.5°	6.1	6.1	6.0	6.0	5.9	6.0	5.8	5.9	5.9	5.8	5.2
5°	9.3	9.5	9.4	9.4	9.3	9.4	9.2	9.0	8.8	8.8	7.0
7.5°	15.3	15.2	15.0	15.1	14.8	14.6	14.3	14.2	13.6	13.3	9.1
10°	29.0	29.7	29.1	29.0	27.1	27.0	25.7	23.9	22.3	21.4	12.0
12.5°	79.9	83.3	77.9	75.4	73.9	68.1	65.6	59.3	53.2	48.6	15.2
15°	184.3	192.8	182.0	182.7	173.7	157.3	142.8	130.4	115.7	101.0	21.7
17.5°	361.2	354.3	348.5	338.5	320.2	296.0	264.9	233.3	206.0	177.4	30.3
20°	541.3	535.2	521.8	500.0	476.7	440.8	403.8	356.4	310.5	267.4	36.2
21°	603.2	601.2	579.3	565.9	529.9	495.7	452.9	402.2	350.5	299.5	37.1
22°	658.6	646.4	634.6	614.8	579.1	541.8	494.3	440.8	384.8	328.1	37.3
23°	696.9	691.4	680.2	657.8	622.3	578.5	528.4	472.5	413.4	348.4	36.9
24°	739.3	732.2	716.0	689.9	654.0	610.7	553.6	498.1	433.9	365.4	36.1
25°	775.3	764.3	745.0	716.8	677.7	633.0	575.5	514.6	448.1	376.8	35.2
26°	798.6	792.6	767.9	737.3	695.3	649.3	590.6	527.2	457.3	382.1	33.8
27°	822.9	811.9	787.6	752.4	706.9	659.9	599.2	533.3	460.5	382.3	32.1
28°	836.8	824.9	797.3	760.3	714.4	665.8	604.1	535.3	459.9	379.0	30.1
29°	841.2	826.1	799.3	761.6	716.2	666.2	603.4	532.5	454.2	370.8	27.7
30°	833.1	817.7	792.2	755.5	710.4	660.8	596.4	523.3	444.2	359.2	25.6
31°	815.3	802.3	777.6	740.8	697.6	648.3	580.7	508.2	427.0	343.5	23.1
32°	791.9	779.0	754.8	721.5	677.5	627.9	559.1	484.6	406.9	320.2	20.7
33°	756.7	749.3	727.5	695.7	651.7	598.6	530.2	456.5	378.2	294.3	18.5
34°	721.0	711.7	696.5	661.7	614.4	561.4	492.6	417.6	343.2	265.3	16.5
35°	679.9	674.3	650.5	622.6	575.1	520.9	452.5	379.8	302.4	232.9	14.5
36°	640.1	631.5	604.3	574.9	528.7	470.2	402.6	334.3	267.2	202.7	12.3
37°	582.3	569.2	549.8	518.8	464.8	414.9	353.3	289.9	223.8	169.9	10.0
38°	514.3	508.2	481.3	450.1	405.4	358.1	297.1	243.3	184.7	141.8	7.6
39°	434.1	434.0	408.3	385.7	342.0	299.4	244.4	197.5	152.4	114.2	5.9
40°	366.1	353.5	337.6	309.3	275.8	239.6	191.4	154.6	118.3	92.1	4.6
42.5°	191.9	190.9	181.6	160.3	141.5	120.2	95.6	79.6	62.3	50.7	2.9
45°	82.4	83.0	76.5	73.3	66.1	57.2	48.3	40.3	34.5	27.9	1.7
47.5°	20.9	20.0	19.8	20.6	20.6	19.9	17.9	16.8	15.5	14.2	1.0
50°	9.0	8.8	8.6	8.6	8.0	7.7	7.2	6.5	6.0	5.4	0.4
52.5°	3.3	3.4	3.5	3.4	3.4	3.3	3.3	3.2	2.9	2.6	0.2
55°	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.2	0.0
57.5°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
62.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



TEST NUMBER: P1334414

CATALOG NUMBER: P3A02R209730DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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: P1334414

CATALOG NUMBER: P3A02R209730DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	4.1	4.1	4.1	4.1	4.1	4.1
2.5°	4.7	4.2	3.5	3.0	2.9	2.8
5°	5.2	3.9	2.9	2.4	2.1	2.0
7.5°	5.7	3.5	2.4	1.7	1.5	1.4
10°	5.9	3.1	1.9	1.3	1.0	1.0
12.5°	6.0	2.7	1.4	0.9	0.5	0.5
15°	5.9	2.2	1.1	0.4	0.1	0.1
17.5°	5.4	1.8	0.6	0.1	0.0	0.0
20°	4.6	1.5	0.4	0.0	0.0	0.0
21°	4.4	1.3	0.3	0.0	0.0	0.0
22°	4.1	1.2	0.2	0.0	0.0	0.0
23°	3.7	1.1	0.2	0.0	0.0	0.0
24°	3.4	1.0	0.1	0.0	0.0	0.0
25°	3.2	0.9	0.1	0.0	0.0	0.0
26°	3.0	0.7	0.1	0.0	0.0	0.0
27°	2.7	0.6	0.0	0.0	0.0	0.0
28°	2.5	0.5	0.0	0.0	0.0	0.0
29°	2.1	0.4	0.0	0.0	0.0	0.0
30°	1.8	0.3	0.0	0.0	0.0	0.0
31°	1.5	0.3	0.0	0.0	0.0	0.0
32°	1.3	0.2	0.0	0.0	0.0	0.0
33°	1.1	0.2	0.0	0.0	0.0	0.0
34°	1.0	0.2	0.0	0.0	0.0	0.0
35°	0.9	0.2	0.0	0.0	0.0	0.0
36°	0.6	0.1	0.0	0.0	0.0	0.0
37°	0.5	0.1	0.0	0.0	0.0	0.0
38°	0.4	0.1	0.0	0.0	0.0	0.0
39°	0.3	0.0	0.0	0.0	0.0	0.0
40°	0.3	0.0	0.0	0.0	0.0	0.0
42.5°	0.1	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.1	0.0	0.0	0.1	0.1
47.5°	0.0	0.1	0.0	0.0	0.1	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.3
52.5°	0.0	0.2	0.1	0.1	0.3	0.3
55°	0.1	0.2	0.1	0.2	0.4	0.4
57.5°	0.1	0.2	0.2	0.3	0.4	0.5
60°	0.2	0.3	0.3	0.3	0.5	0.5
62.5°	0.2	0.3	0.4	0.4	0.5	0.6
65°	0.2	0.4	0.4	0.4	0.5	0.6
67.5°	0.3	0.4	0.4	0.4	0.5	0.6
70°	0.3	0.4	0.4	0.4	0.5	0.5
72.5°	0.3	0.4	0.3	0.4	0.4	0.5
75°	0.3	0.4	0.3	0.3	0.4	0.4
77.5°	0.2	0.3	0.3	0.2	0.3	0.3
80°	0.2	0.3	0.2	0.2	0.3	0.3



TEST NUMBER: P1334414

CATALOG NUMBER: P3A02R209730DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.3	0.2	0.1	0.2	0.2
85°	0.2	0.3	0.2	0.1	0.1	0.1
87.5°	0.2	0.3	0.2	0.1	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)