

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: P1334369

Luminaire Tested: P3A02R209040DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334369
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: P3A02R209040DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

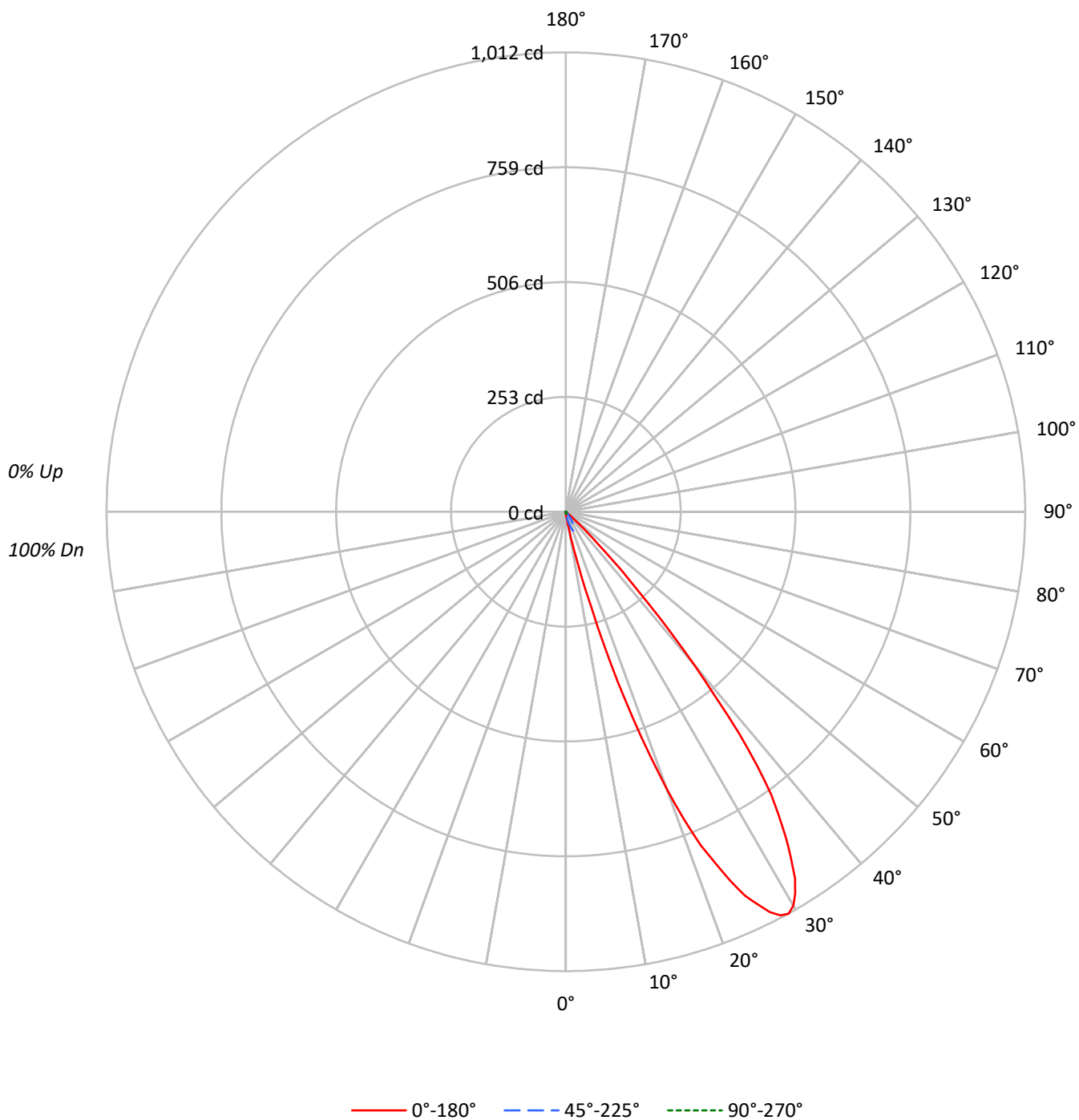
Lumens per Lamp: N/A
Luminaire Lumens: 142.0 lumens
Efficiency: N/A
Efficacy: 39.4 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	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	57	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°	1074	1074	1074	1074	1074
5°	2465	1849	1013	616	528
10°	7771	3206	824	334	267
15°	50352	5948	613	114	23
20°	152007	10151	420	0	0
25°	225739	10259	242	0	0
30°	253837	7799	101	0	0
35°	219026	4658	80	0	0
40°	126122	1574	0	0	0
45°	30763	651	31	0	31
50°	3684	171	34	34	136
55°	497	0	115	115	191
60°	44	0	175	175	263
65°	52	52	259	259	415
70°	64	64	321	321	385
75°	0	85	424	339	424
80°	0	126	505	379	505
85°	0	252	1006	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 30949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.5
10°-20°	13.2	9.3
20°-30°	57.4	40.4
30°-40°	57.8	40.7
40°-50°	11.6	8.2
50°-60°	0.6	0.4
60°-70°	0.4	0.3
70°-80°	0.3	0.2
80°-90°	0.2	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°	71.2	50.1
0°-40°	128.9	90.8
0°-60°	141.1	99.4
0°-90°	142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	142.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5	5	5	5	5	
5°	11	8	5	3	2	2
15°	222	26	3	0	0	87
25°	933	42	1	0	0	421
35°	818	17	0	0	0	487
45°	99	2	0	0	0	108
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	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
2.5°	7.3	7.3	7.2	7.2	7.1	7.2	7.0	7.1	7.1	7.0	6.3
5°	11.2	11.5	11.3	11.3	11.2	11.3	11.1	10.8	10.6	10.6	8.4
7.5°	18.4	18.3	18.0	18.2	17.8	17.5	17.3	17.1	16.4	16.0	11.0
10°	34.9	35.7	35.0	34.9	32.6	32.5	30.9	28.7	26.8	25.8	14.4
12.5°	96.1	100.2	93.8	90.7	88.9	81.9	79.0	71.4	64.0	58.5	18.3
15°	221.8	232.0	219.0	219.9	209.1	189.2	171.9	156.9	139.3	121.5	26.2
17.5°	434.7	426.4	419.3	407.4	385.3	356.2	318.7	280.7	247.9	213.5	36.5
20°	651.4	644.0	627.9	601.8	573.7	530.5	485.9	428.9	373.6	321.8	43.5
21°	725.9	723.5	697.1	681.0	637.7	596.5	545.1	484.0	421.8	360.5	44.7
22°	792.5	777.9	763.7	739.9	696.8	652.0	594.8	530.5	463.0	394.9	44.8
23°	838.7	832.0	818.6	791.6	748.9	696.2	635.9	568.6	497.5	419.2	44.4
24°	889.7	881.2	861.6	830.2	787.0	735.0	666.2	599.4	522.1	439.7	43.4
25°	933.0	919.7	896.5	862.6	815.5	761.8	692.6	619.3	539.3	453.5	42.4
26°	961.1	953.8	924.1	887.2	836.7	781.3	710.7	634.5	550.4	459.8	40.7
27°	990.3	977.0	947.8	905.4	850.6	794.1	721.0	641.8	554.2	460.0	38.6
28°	1007.0	992.6	959.5	914.9	859.7	801.2	727.0	644.1	553.4	456.0	36.2
29°	1012.3	994.2	961.8	916.5	861.9	801.7	726.1	640.8	546.6	446.3	33.4
30°	1002.5	984.0	953.3	909.1	854.9	795.3	717.7	629.7	534.5	432.2	30.8
31°	981.2	965.4	935.8	891.5	839.4	780.2	698.8	611.5	513.9	413.4	27.8
32°	952.9	937.5	908.4	868.3	815.4	755.6	672.9	583.2	489.7	385.3	24.9
33°	910.6	901.7	875.5	837.3	784.3	720.4	638.1	549.3	455.1	354.1	22.3
34°	867.7	856.4	838.2	796.3	739.3	675.6	592.7	502.6	413.0	319.2	19.8
35°	818.2	811.5	782.8	749.3	692.1	626.9	544.6	457.1	363.9	280.3	17.4
36°	770.3	760.0	727.2	691.8	636.3	565.8	484.5	402.3	321.6	243.9	14.8
37°	700.7	685.0	661.7	624.3	559.4	499.3	425.1	348.9	269.4	204.4	12.0
38°	618.9	611.5	579.2	541.6	487.9	430.9	357.5	292.8	222.2	170.7	9.1
39°	522.4	522.3	491.3	464.2	411.6	360.3	294.1	237.7	183.5	137.5	7.1
40°	440.6	425.4	406.3	372.2	331.9	288.3	230.3	186.0	142.4	110.8	5.5
42.5°	231.0	229.7	218.5	192.9	170.3	144.7	115.0	95.8	75.0	61.1	3.5
45°	99.2	99.8	92.1	88.2	79.5	68.8	58.1	48.4	41.5	33.6	2.1
47.5°	25.1	24.1	23.8	24.7	24.7	24.0	21.5	20.2	18.7	17.1	1.2
50°	10.8	10.6	10.3	10.3	9.7	9.3	8.6	7.9	7.2	6.4	0.5
52.5°	4.0	4.1	4.3	4.1	4.1	4.0	4.0	3.9	3.5	3.1	0.3
55°	1.3	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.4	0.0
57.5°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	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



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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

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	4.9	4.9	4.9	4.9	4.9	4.9
2.5°	5.7	5.0	4.3	3.6	3.5	3.3
5°	6.3	4.6	3.5	2.8	2.6	2.4
7.5°	6.8	4.3	2.8	2.1	1.8	1.7
10°	7.1	3.7	2.3	1.5	1.2	1.2
12.5°	7.2	3.2	1.7	1.0	0.6	0.6
15°	7.1	2.7	1.3	0.5	0.1	0.1
17.5°	6.4	2.2	0.8	0.1	0.0	0.0
20°	5.5	1.8	0.5	0.0	0.0	0.0
21°	5.3	1.5	0.4	0.0	0.0	0.0
22°	4.9	1.4	0.3	0.0	0.0	0.0
23°	4.5	1.3	0.3	0.0	0.0	0.0
24°	4.1	1.2	0.1	0.0	0.0	0.0
25°	3.9	1.0	0.1	0.0	0.0	0.0
26°	3.6	0.9	0.1	0.0	0.0	0.0
27°	3.2	0.8	0.0	0.0	0.0	0.0
28°	3.0	0.6	0.0	0.0	0.0	0.0
29°	2.6	0.5	0.0	0.0	0.0	0.0
30°	2.2	0.4	0.0	0.0	0.0	0.0
31°	1.8	0.4	0.0	0.0	0.0	0.0
32°	1.5	0.3	0.0	0.0	0.0	0.0
33°	1.3	0.3	0.0	0.0	0.0	0.0
34°	1.2	0.3	0.0	0.0	0.0	0.0
35°	1.0	0.3	0.0	0.0	0.0	0.0
36°	0.8	0.1	0.0	0.0	0.0	0.0
37°	0.6	0.1	0.0	0.0	0.0	0.0
38°	0.5	0.1	0.0	0.0	0.0	0.0
39°	0.4	0.0	0.0	0.0	0.0	0.0
40°	0.4	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	0.3
50°	0.0	0.1	0.1	0.1	0.3	0.4
52.5°	0.0	0.3	0.1	0.1	0.4	0.4
55°	0.1	0.3	0.1	0.3	0.5	0.5
57.5°	0.1	0.3	0.3	0.4	0.5	0.6
60°	0.3	0.4	0.4	0.4	0.6	0.6
62.5°	0.3	0.4	0.5	0.5	0.6	0.8
65°	0.3	0.5	0.5	0.5	0.6	0.8
67.5°	0.4	0.5	0.5	0.5	0.6	0.8
70°	0.4	0.5	0.5	0.5	0.6	0.6
72.5°	0.4	0.5	0.4	0.5	0.5	0.6
75°	0.4	0.5	0.4	0.4	0.5	0.5
77.5°	0.3	0.4	0.4	0.3	0.4	0.4
80°	0.3	0.4	0.3	0.3	0.4	0.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.4	0.3	0.1	0.3	0.3
85°	0.3	0.4	0.3	0.1	0.1	0.1
87.5°	0.3	0.4	0.3	0.1	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)