

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: P1343040

Luminaire Tested: P3A09R459827DE010 E3A301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R459827DE010 E3A301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3A301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

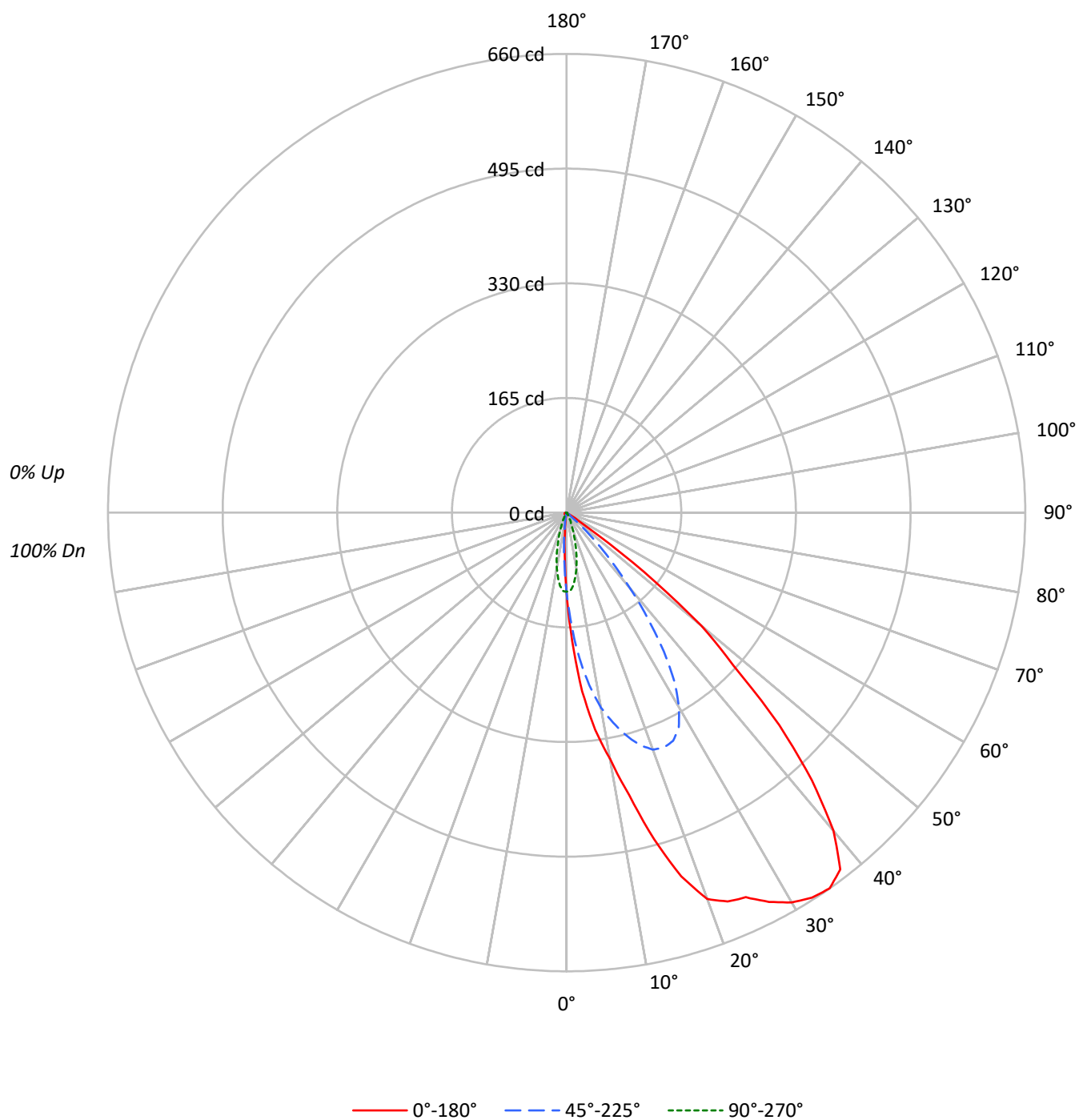
Lumens per Lamp: N/A
Luminaire Lumens: 299.1 lumens
Efficiency: N/A
Efficacy: 27.2 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	84	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	46	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	42	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	24954	24954	24954	24954	24954
5°	56857	46115	23333	9355	6383
10°	80114	63370	18036	2071	957
15°	110421	75392	11532	681	568
20°	138052	84661	6021	467	467
25°	147734	87658	2782	363	436
30°	163975	81861	1266	380	456
35°	176650	65263	402	402	535
40°	170920	40447	229	515	658
45°	134215	19072	248	620	775
50°	86240	2217	341	785	1023
55°	13113	191	382	956	1262
60°	219	219	439	1096	1316
65°	259	259	519	1193	1557
70°	321	321	641	1282	1795
75°	254	424	847	1525	1949
80°	379	631	1010	1642	2273
85°	0	755	1258	2013	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 134215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	4.2
10°-20°	45.0	15.1
20°-30°	79.1	26.4
30°-40°	89.8	30.0
40°-50°	58.2	19.4
50°-60°	11.4	3.8
60°-70°	1.4	0.5
70°-80°	1.2	0.4
80°-90°	0.5	0.2
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°	136.6	45.7
0°-40°	226.4	75.7
0°-60°	296.0	99.0
0°-90°	299.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	299.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	114	114	114	114	114	
5°	258	210	106	42	29	27
15°	486	332	51	3	2	140
25°	611	362	12	2	2	286
35°	660	244	2	2	2	406
45°	433	62	1	2	2	326
55°	34	0	1	2	3	65
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8
2.5°	184.8	184.3	185.0	180.0	179.8	176.0	175.0	170.8	165.0	162.3	155.8
5°	258.3	255.8	255.8	249.8	247.8	243.6	236.3	227.3	219.8	209.5	198.5
7.5°	315.1	314.6	314.6	309.3	304.3	298.3	288.6	278.3	266.3	250.6	234.6
10°	359.8	360.6	358.3	353.6	346.3	339.8	328.3	315.8	301.1	284.6	263.3
12.5°	416.3	410.8	409.1	398.3	389.1	376.6	362.8	348.6	330.3	309.6	285.6
15°	486.4	479.4	472.4	458.1	442.6	423.3	401.8	380.8	357.3	332.1	302.1
17.5°	548.9	548.9	539.6	517.1	497.1	468.6	439.6	411.6	383.8	350.6	313.1
20°	591.6	589.4	582.4	565.9	543.1	510.9	473.1	433.8	400.3	362.8	319.3
22.5°	605.6	605.1	605.4	595.6	577.4	543.9	497.6	451.4	409.3	365.8	316.3
25°	610.6	611.6	614.1	610.4	596.6	563.1	512.6	459.6	412.1	362.3	304.8
27.5°	631.4	629.4	632.1	629.6	614.1	574.1	515.6	457.6	406.1	349.6	284.3
30°	647.6	647.1	651.9	649.6	629.4	581.1	512.9	450.1	391.3	323.3	252.1
32.5°	656.9	657.1	658.4	649.1	619.1	565.9	499.4	434.8	363.6	289.1	210.0
35°	659.9	658.4	651.4	628.6	587.6	530.6	466.1	398.6	325.8	243.8	166.0
37.5°	646.9	639.1	621.1	587.1	539.6	486.4	423.6	352.8	274.1	192.5	123.8
40°	597.1	586.9	564.1	529.4	485.1	433.6	369.3	295.3	212.5	141.3	87.0
42.5°	522.6	517.4	493.6	463.4	425.8	373.8	307.6	232.6	157.3	97.5	55.5
45°	432.8	426.1	411.1	384.3	354.8	300.3	238.6	166.5	107.3	61.5	27.5
47.5°	324.6	325.1	314.8	294.6	265.6	220.0	163.3	111.8	67.3	31.8	6.3
50°	252.8	249.3	234.8	214.0	180.3	146.5	105.5	70.5	35.5	6.5	0.5
52.5°	140.0	142.3	134.5	127.8	110.3	87.5	62.3	35.8	7.5	0.8	0.5
55°	34.3	36.3	34.8	35.5	36.8	32.8	25.3	7.0	0.8	0.5	0.5
57.5°	0.8	0.8	0.8	0.8	1.3	1.8	1.8	0.5	0.5	0.5	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8
2.5°	152.5	147.8	139.0	113.0	90.8	73.3	62.8	61.8
5°	188.8	176.0	157.5	106.0	67.0	42.5	30.8	29.0
7.5°	217.5	199.5	171.0	94.5	45.8	21.8	12.0	10.0
10°	241.3	215.8	178.0	81.0	28.8	9.3	5.0	4.3
12.5°	257.6	226.8	179.3	66.0	16.5	4.5	3.3	3.0
15°	268.1	230.3	173.3	50.8	9.3	3.0	2.8	2.5
17.5°	272.3	227.3	161.8	36.8	5.0	2.3	2.3	2.3
20°	270.3	217.5	144.8	25.8	3.3	2.0	2.0	2.0
22.5°	260.8	200.8	123.5	17.3	2.3	1.8	1.8	1.8
25°	242.1	178.0	101.0	11.5	1.5	1.5	1.8	1.8
27.5°	214.0	150.0	77.3	7.8	1.3	1.5	1.8	1.8
30°	178.8	118.8	55.5	5.0	1.3	1.5	1.5	1.8
32.5°	142.0	86.5	36.5	3.0	1.0	1.5	1.8	2.0
35°	103.0	59.0	23.3	1.5	1.3	1.5	1.8	2.0
37.5°	72.3	38.5	13.5	1.0	1.3	1.5	2.0	2.0
40°	47.0	21.5	5.0	0.8	1.3	1.8	2.0	2.3
42.5°	24.5	7.5	1.0	0.8	1.3	1.8	2.3	2.5
45°	6.3	1.0	0.3	0.8	1.5	2.0	2.5	2.5
47.5°	0.8	0.3	0.3	1.0	1.5	2.3	2.5	2.8
50°	0.3	0.5	0.5	1.0	1.5	2.3	2.8	3.0
52.5°	0.5	0.5	0.5	1.0	1.8	2.3	3.0	3.3
55°	0.5	0.5	0.5	1.0	1.8	2.5	3.0	3.3
57.5°	0.5	0.5	0.5	1.0	1.8	2.5	3.0	3.0
60°	0.5	0.5	0.5	1.0	1.8	2.5	3.0	3.0
62.5°	0.5	0.5	0.8	1.0	1.8	2.3	3.0	3.0
65°	0.5	0.8	0.8	1.0	1.8	2.3	2.8	3.0
67.5°	0.5	0.5	0.8	1.0	1.8	2.3	2.8	3.0
70°	0.5	0.5	0.8	1.0	1.5	2.0	2.5	2.8
72.5°	0.5	0.5	0.8	1.0	1.5	2.0	2.3	2.5
75°	0.5	0.5	0.8	1.0	1.3	1.8	2.3	2.3
77.5°	0.5	0.5	0.8	0.8	1.3	1.5	2.0	2.0
80°	0.5	0.5	0.8	0.8	1.0	1.3	1.5	1.8
82.5°	0.5	0.5	0.5	0.8	0.8	1.0	1.3	1.3
85°	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8
87.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)