

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: P1339327

Luminaire Tested: P3A05R459024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339327
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: P3A05R459024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

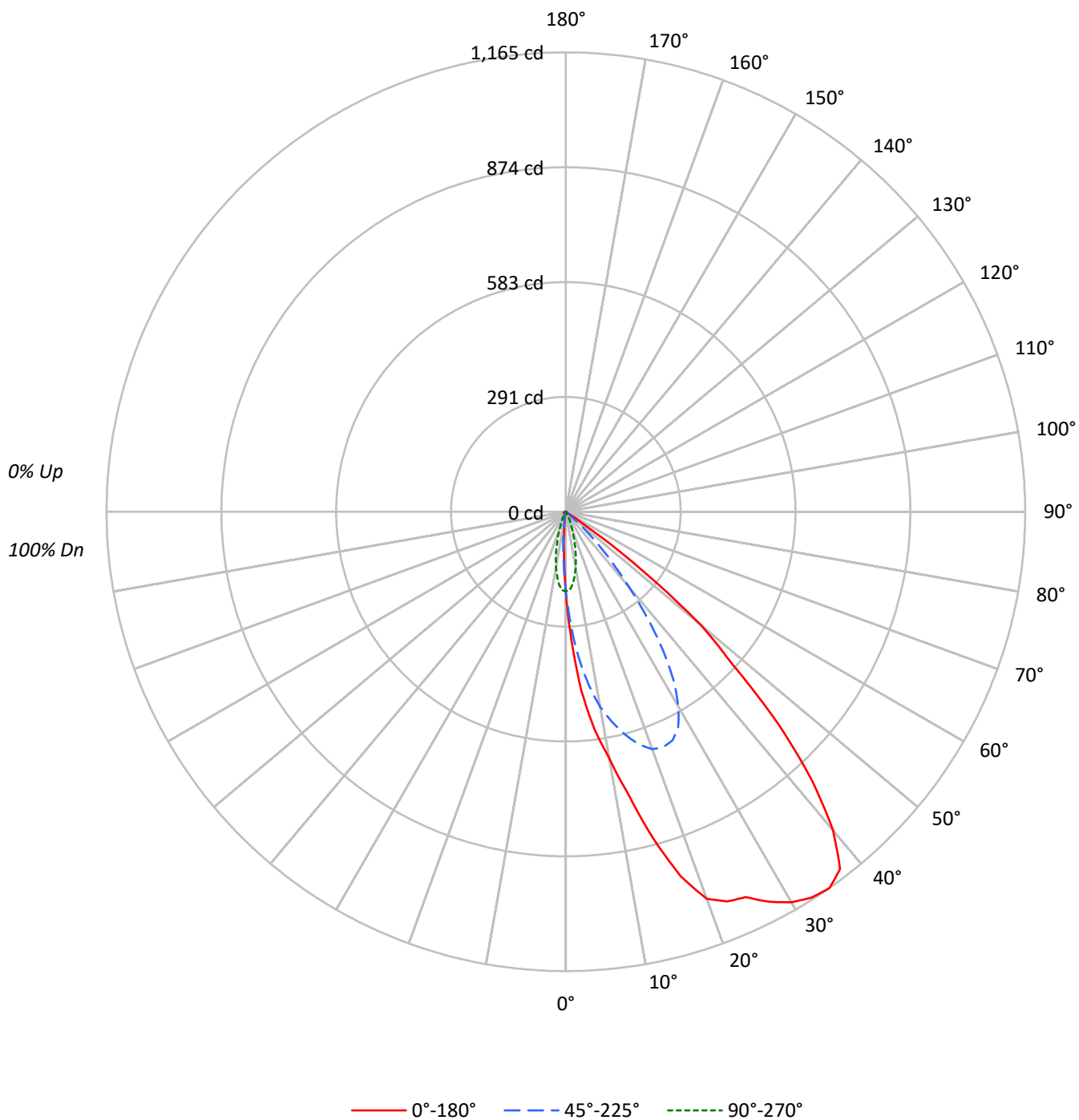
Lumens per Lamp: N/A
Luminaire Lumens: 528.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	44053	44053	44053	44053	44053
5°	100396	81444	41206	16531	11270
10°	141480	111888	31863	3629	1670
15°	194984	133122	20341	1203	999
20°	243808	149510	10618	817	817
25°	260894	154799	4912	629	750
30°	289589	144579	2228	658	785
35°	311942	115242	696	696	937
40°	301851	71420	372	887	1145
45°	237048	33678	403	1085	1364
50°	152285	3923	614	1365	1808
55°	23129	344	688	1682	2179
60°	395	395	789	1930	2324
65°	467	467	934	2075	2750
70°	577	577	1154	2244	3142
75°	339	763	1525	2626	3389
80°	505	1137	1642	2778	3915
85°	0	1006	2264	3271	3271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 237048 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	4.2
10°-20°	79.5	15.1
20°-30°	139.7	26.5
30°-40°	158.6	30.0
40°-50°	102.7	19.4
50°-60°	20.2	3.8
60°-70°	2.5	0.5
70°-80°	2.0	0.4
80°-90°	0.9	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°	241.1	45.7
0°-40°	399.7	75.7
0°-60°	522.6	99.0
0°-90°	528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	528.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	201	201	201	201	201	
5°	456	370	187	75	51	49
15°	859	586	90	5	4	247
25°	1078	640	20	3	3	505
35°	1165	430	3	3	4	716
45°	764	109	1	4	4	576
55°	60	1	2	4	6	115
65°	1	1	2	4	5	1
75°	0	1	2	3	4	0
85°	0	0	1	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°	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9
2.5°	326.3	325.4	326.8	317.9	317.5	310.9	309.1	301.6	291.4	286.6	275.1
5°	456.1	451.7	451.7	441.1	437.6	430.1	417.3	401.4	388.1	370.0	350.6
7.5°	556.4	555.5	555.5	546.2	537.4	526.8	509.6	491.5	470.3	442.5	414.2
10°	635.4	636.7	632.8	624.4	611.6	600.1	579.8	557.7	531.7	502.5	465.0
12.5°	735.2	725.5	722.4	703.4	687.1	665.0	640.7	615.5	583.3	546.7	504.3
15°	858.9	846.5	834.1	809.0	781.6	747.6	709.6	672.5	631.0	586.4	533.4
17.5°	969.2	969.2	952.9	913.2	877.8	827.5	776.3	726.8	677.8	619.1	552.8
20°	1044.8	1040.8	1028.4	999.3	959.1	902.1	835.5	766.1	707.0	640.7	563.9
22.5°	1069.5	1068.6	1069.0	1051.8	1019.6	960.4	878.7	797.0	722.9	646.0	558.6
25°	1078.3	1080.1	1084.5	1077.9	1053.6	994.4	905.2	811.6	727.7	639.8	538.3
27.5°	1115.0	1111.4	1116.3	1111.9	1084.5	1013.8	910.5	808.1	717.1	617.3	502.1
30°	1143.7	1142.8	1151.2	1147.2	1111.4	1026.2	905.7	794.8	691.1	571.0	445.1
32.5°	1160.0	1160.4	1162.7	1146.3	1093.3	999.3	881.8	767.9	642.0	510.5	370.9
35°	1165.3	1162.7	1150.3	1110.1	1037.7	937.0	823.1	703.9	575.4	430.5	293.2
37.5°	1142.3	1128.7	1096.9	1036.8	952.9	858.9	748.0	623.1	484.0	340.0	218.6
40°	1054.5	1036.4	996.2	934.8	856.6	765.7	652.2	521.5	375.3	249.5	153.7
42.5°	922.9	913.6	871.7	818.2	752.0	660.1	543.1	410.7	277.7	172.2	98.0
45°	764.4	752.4	725.9	678.7	626.6	530.3	421.3	294.1	189.4	108.6	48.6
47.5°	573.2	574.0	555.9	520.2	468.9	388.6	288.3	197.4	118.8	56.1	11.0
50°	446.4	440.2	414.6	378.0	318.4	258.8	186.3	124.5	62.7	11.5	0.9
52.5°	247.3	251.3	237.6	225.6	194.7	154.5	110.0	63.1	13.2	1.3	0.9
55°	60.5	64.0	61.4	62.7	64.9	57.8	44.6	12.4	1.3	0.9	0.9
57.5°	1.3	1.3	1.3	1.3	2.2	3.1	3.1	0.9	0.9	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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°	200.9	200.9	200.9	200.9	200.9	200.9	200.9	200.9
2.5°	269.4	261.0	245.5	199.6	160.3	129.4	110.8	109.1
5°	333.4	310.9	278.2	187.2	118.3	75.1	54.3	51.2
7.5°	384.2	352.4	302.0	166.9	80.8	38.4	21.2	17.7
10°	426.1	381.1	314.4	143.1	50.8	16.3	8.8	7.5
12.5°	454.8	400.5	316.6	116.6	29.1	7.9	5.7	5.3
15°	473.4	406.7	306.0	89.6	16.3	5.3	4.9	4.4
17.5°	480.9	401.4	285.7	64.9	8.8	4.0	4.0	4.0
20°	477.3	384.2	255.7	45.5	5.7	3.5	3.5	3.5
22.5°	460.6	354.6	218.1	30.5	4.0	3.1	3.1	3.1
25°	427.4	314.4	178.4	20.3	2.6	2.6	3.1	3.1
27.5°	378.0	264.9	136.4	13.7	2.2	2.6	3.1	3.1
30°	315.7	209.7	98.0	8.8	2.2	2.6	2.6	3.1
32.5°	250.8	152.8	64.5	5.3	1.8	2.6	3.1	3.5
35°	181.9	104.2	41.1	2.6	2.2	2.6	3.1	3.5
37.5°	127.6	68.0	23.8	1.8	2.2	2.6	3.5	3.5
40°	83.0	38.0	8.8	1.3	2.2	3.1	3.5	4.0
42.5°	43.3	13.2	1.8	1.3	2.2	3.1	4.0	4.4
45°	11.0	1.8	0.4	1.3	2.6	3.5	4.4	4.4
47.5°	1.3	0.4	0.4	1.8	2.6	4.0	4.4	4.9
50°	0.4	0.9	0.9	1.8	2.6	4.0	4.9	5.3
52.5°	0.9	0.9	0.9	1.8	3.1	4.0	5.3	5.7
55°	0.9	0.9	0.9	1.8	3.1	4.4	5.3	5.7
57.5°	0.9	0.9	0.9	1.8	3.1	4.4	5.3	5.3
60°	0.9	0.9	0.9	1.8	3.1	4.4	5.3	5.3
62.5°	0.9	0.9	1.3	1.8	3.1	4.0	5.3	5.3
65°	0.9	1.3	1.3	1.8	3.1	4.0	4.9	5.3
67.5°	0.9	0.9	1.3	1.8	3.1	4.0	4.9	5.3
70°	0.9	0.9	1.3	1.8	2.6	3.5	4.4	4.9
72.5°	0.9	0.9	1.3	1.8	2.6	3.5	4.0	4.4
75°	0.9	0.9	1.3	1.8	2.2	3.1	4.0	4.0
77.5°	0.9	0.9	1.3	1.3	2.2	2.6	3.5	3.5
80°	0.9	0.9	1.3	1.3	1.8	2.2	2.6	3.1
82.5°	0.9	0.9	0.9	1.3	1.3	1.8	2.2	2.2
85°	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3
87.5°	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)