

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: P1338847

Luminaire Tested: P3A05R409030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R409030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

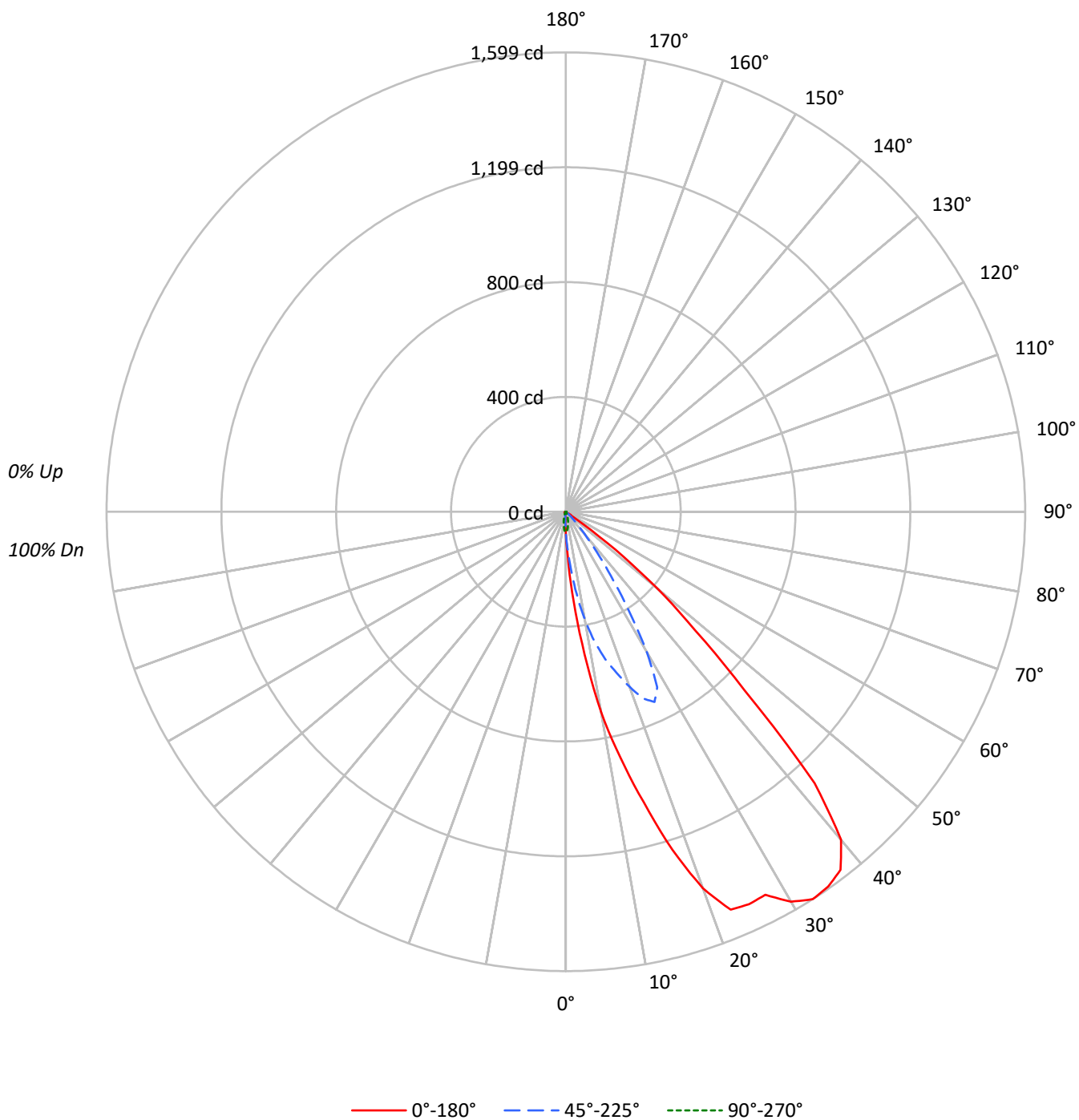
Lumens per Lamp: N/A
Luminaire Lumens: 590.0 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	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	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15306	15306	15306	15306	15306
5°	69051	44024	13713	5261	3852
10°	158336	85057	9664	1893	1447
15°	237618	120682	5993	1022	908
20°	325342	151283	3500	583	700
25°	364715	176744	1815	484	605
30°	396719	142680	760	380	633
35°	426353	73026	268	535	803
40°	426513	29112	143	573	1002
45°	272307	9737	310	930	1395
50°	141368	1194	512	1194	1706
55°	12196	191	573	1529	2103
60°	439	219	658	1754	2412
65°	519	259	1038	1816	2594
70°	321	321	1282	1923	2565
75°	424	424	1271	2118	2965
80°	631	631	1894	1894	2526
85°	0	1258	3774	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 272307 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	2.3
10°-20°	79.9	13.5
20°-30°	174.9	29.6
30°-40°	199.2	33.8
40°-50°	105.1	17.8
50°-60°	12.4	2.1
60°-70°	2.2	0.4
70°-80°	1.8	0.3
80°-90°	0.8	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°	268.4	45.5
0°-40°	467.6	79.2
0°-60°	585.1	99.2
0°-90°	590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	590.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	314	200	62	24	18	42
15°	1047	532	26	4	4	308
25°	1507	730	8	2	2	695
35°	1593	273	1	2	3	987
45°	878	31	1	3	4	708
55°	32	0	2	4	6	99
65°	1	0	2	4	5	1
75°	0	0	2	2	4	1
85°	0	0	2	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°	67.5°
0°	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
2.5°	155.6	155.6	155.1	150.6	150.1	149.6	141.6	139.6	130.1	123.7	94.2
5°	313.7	306.7	306.2	298.2	284.7	266.8	255.3	236.9	218.9	200.0	116.2
7.5°	499.7	505.6	489.2	480.7	450.8	429.3	396.4	367.5	327.1	289.2	134.1
10°	711.1	700.6	684.2	667.7	635.3	596.9	548.0	496.7	438.3	382.0	144.1
12.5°	876.1	862.7	852.7	830.3	798.4	749.0	690.6	621.8	544.5	463.3	143.6
15°	1046.7	1033.2	1010.8	990.8	943.5	888.1	824.8	734.0	639.3	531.6	133.1
17.5°	1234.2	1216.7	1191.8	1161.4	1115.5	1054.2	973.9	863.2	729.0	587.4	114.2
20°	1394.2	1383.8	1358.8	1322.9	1278.1	1218.2	1125.5	1002.8	839.2	648.3	90.8
22.5°	1499.0	1489.5	1472.5	1441.1	1407.2	1343.4	1258.6	1124.0	931.5	703.6	68.8
25°	1507.4	1503.5	1499.0	1488.5	1468.0	1422.7	1339.9	1194.8	988.8	730.5	50.9
27.5°	1503.0	1501.5	1500.5	1495.0	1481.5	1436.6	1351.9	1205.3	981.4	688.6	37.4
30°	1566.8	1562.3	1559.8	1541.8	1506.4	1437.1	1326.4	1148.9	872.2	563.5	26.9
32.5°	1599.2	1598.2	1595.7	1578.3	1528.4	1438.1	1283.5	1012.8	691.6	406.9	18.5
35°	1592.7	1587.7	1578.7	1546.3	1477.0	1363.8	1144.9	808.8	499.2	272.8	12.0
37.5°	1570.8	1559.3	1541.8	1483.5	1391.3	1236.7	928.5	595.4	339.6	176.5	7.0
40°	1490.0	1474.5	1447.1	1375.8	1254.6	1019.3	686.7	402.4	222.9	101.7	2.0
42.5°	1281.1	1261.1	1241.2	1161.4	1022.7	760.0	451.8	248.8	127.2	55.8	0.5
45°	878.1	853.2	825.8	767.9	656.7	460.3	268.8	140.1	65.8	31.4	0.5
47.5°	609.9	598.4	550.5	476.7	365.5	243.8	139.1	68.8	34.9	14.5	0.5
50°	414.4	401.4	345.6	274.3	194.5	116.7	63.8	34.4	15.5	3.5	0.5
52.5°	217.4	201.5	166.1	126.7	78.8	48.9	27.9	15.0	4.5	0.5	0.5
55°	31.9	29.4	23.9	19.4	17.5	13.5	8.0	3.5	0.5	0.5	1.0
57.5°	1.0	1.0	1.0	1.0	1.5	1.5	1.0	0.5	0.5	0.5	1.0
60°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
65°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.5
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
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):

	90°	112.5°	135°	157.5°	180°
0°	69.8	69.8	69.8	69.8	69.8
2.5°	68.8	50.9	39.4	33.9	33.4
5°	62.3	36.4	23.9	18.5	17.5
7.5°	52.9	25.4	14.0	10.0	9.5
10°	43.4	17.5	8.5	7.0	6.5
12.5°	34.4	11.5	6.0	5.5	5.0
15°	26.4	7.5	4.5	4.0	4.0
17.5°	19.9	5.0	3.5	3.5	3.5
20°	15.0	3.5	2.5	3.0	3.0
22.5°	10.5	2.5	2.0	2.5	2.5
25°	7.5	2.0	2.0	2.5	2.5
27.5°	5.0	1.5	1.5	2.0	2.5
30°	3.0	1.0	1.5	2.0	2.5
32.5°	1.5	1.0	1.5	2.5	2.5
35°	1.0	1.5	2.0	2.5	3.0
37.5°	0.5	1.5	2.0	3.0	3.0
40°	0.5	1.5	2.0	3.0	3.5
42.5°	1.0	2.0	2.5	3.5	4.0
45°	1.0	2.0	3.0	4.0	4.5
47.5°	1.0	2.0	3.5	4.5	4.5
50°	1.5	2.5	3.5	4.5	5.0
52.5°	1.5	2.5	3.5	5.0	5.5
55°	1.5	2.5	4.0	5.0	5.5
57.5°	1.5	3.0	4.0	5.0	5.5
60°	1.5	2.5	4.0	5.0	5.5
62.5°	2.0	2.5	3.5	5.0	5.0
65°	2.0	2.5	3.5	5.0	5.0
67.5°	2.0	2.5	3.5	4.5	4.5
70°	2.0	2.5	3.0	4.0	4.0
72.5°	2.0	2.5	3.0	3.5	4.0
75°	1.5	2.0	2.5	3.0	3.5
77.5°	1.5	2.0	2.0	3.0	3.0
80°	1.5	1.5	1.5	2.0	2.0
82.5°	1.5	1.5	1.0	1.5	1.5
85°	1.5	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)