

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: P1336845

Luminaire Tested: P3A05R209035DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336845
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: P3A05R209035DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

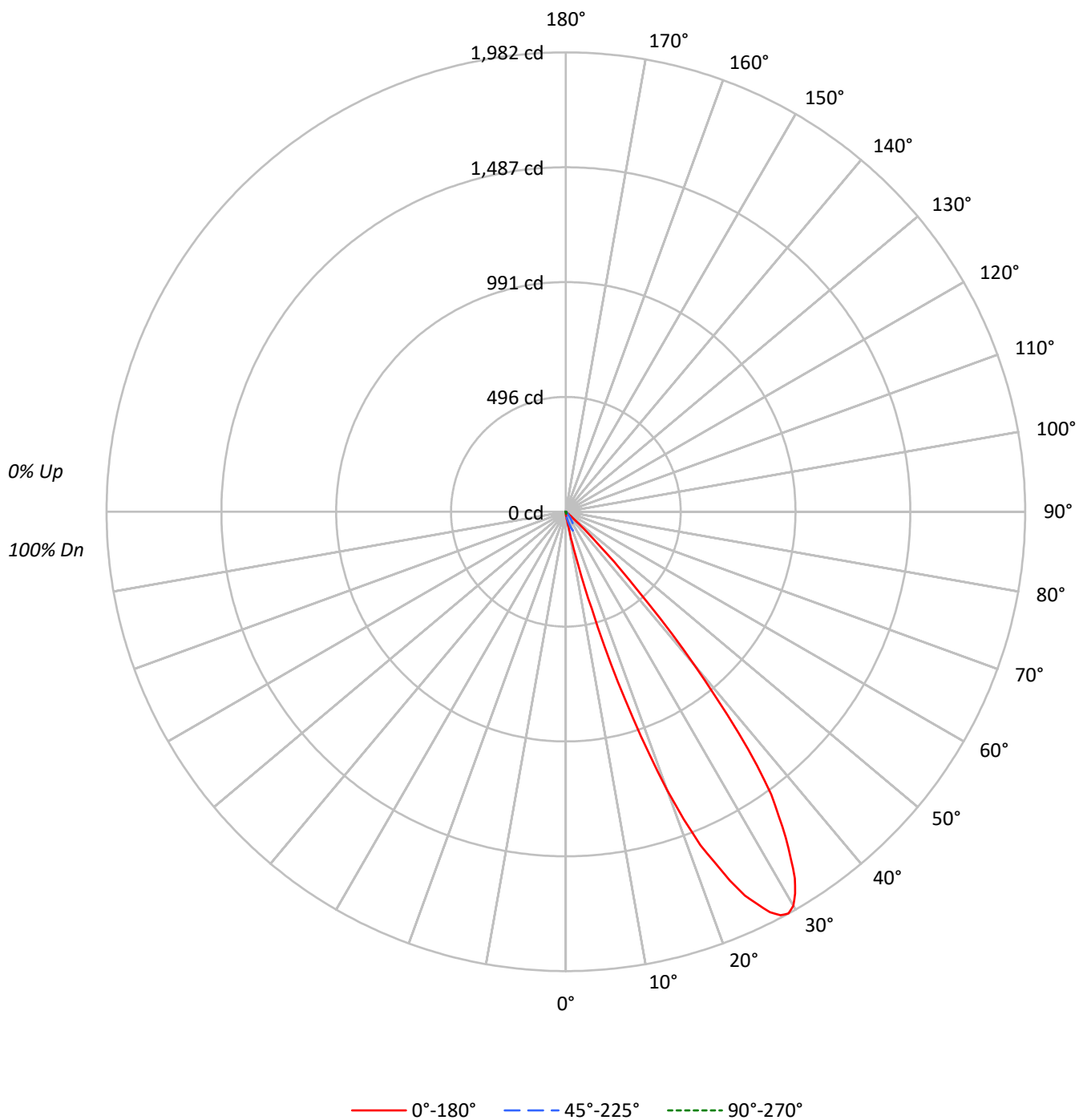
Lumens per Lamp: N/A
Luminaire Lumens: 278.1 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	75	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°	2105	2105	2105	2105	2105
5°	4821	3610	2003	1211	1057
10°	15208	6279	1625	668	512
15°	98593	11623	1203	227	68
20°	297573	19882	817	0	0
25°	441921	20082	484	0	0
30°	496963	15268	203	0	0
35°	428789	9102	134	0	0
40°	246920	3092	0	0	0
45°	60223	1240	93	0	93
50°	7232	341	102	102	273
55°	956	0	191	191	382
60°	132	0	351	351	570
65°	156	156	519	519	778
70°	192	192	641	641	833
75°	0	254	847	678	847
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 60626 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	25.8	9.3
20°-30°	112.3	40.4
30°-40°	113.1	40.7
40°-50°	22.7	8.2
50°-60°	1.2	0.4
60°-70°	0.8	0.3
70°-80°	0.7	0.2
80°-90°	0.4	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°	139.3	50.1
0°-40°	252.4	90.8
0°-60°	276.3	99.3
0°-90°	278.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	278.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	22	16	9	6	5	3
15°	434	51	5	1	0	170
25°	1826	83	2	0	0	824
35°	1602	34	0	0	0	953
45°	194	4	0	0	0	211
55°	2	0	0	0	1	5
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	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°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
2.5°	14.4	14.4	14.1	14.1	13.9	14.1	13.6	13.9	13.9	13.6	12.4
5°	21.9	22.4	22.2	22.2	21.9	22.2	21.7	21.2	20.7	20.7	16.4
7.5°	36.1	35.8	35.3	35.6	34.8	34.3	33.8	33.5	32.0	31.3	21.4
10°	68.3	69.9	68.6	68.3	63.8	63.6	60.5	56.2	52.5	50.4	28.2
12.5°	188.2	196.2	183.6	177.6	174.0	160.4	154.6	139.7	125.3	114.5	35.8
15°	434.3	454.2	428.8	430.5	409.3	370.5	336.5	307.2	272.6	237.8	51.2
17.5°	851.0	834.8	820.9	797.5	754.4	697.4	624.0	549.6	485.3	417.9	71.4
20°	1275.2	1260.8	1229.3	1178.1	1123.1	1038.6	951.3	839.6	731.4	630.0	85.2
21°	1421.2	1416.4	1364.7	1333.2	1248.4	1167.7	1067.1	947.6	825.7	705.7	87.5
22°	1551.6	1522.9	1495.1	1448.5	1364.2	1276.4	1164.5	1038.6	906.4	773.0	87.8
23°	1641.9	1628.8	1602.6	1549.8	1466.1	1363.0	1244.9	1113.3	974.0	820.7	87.0
24°	1741.8	1725.1	1686.8	1625.3	1540.8	1438.9	1304.2	1173.5	1022.2	860.8	85.0
25°	1826.5	1800.5	1755.1	1688.8	1596.5	1491.3	1355.9	1212.4	1055.8	887.8	83.0
26°	1881.5	1867.4	1809.1	1737.0	1638.1	1529.7	1391.5	1242.1	1077.4	900.1	79.7
27°	1938.8	1912.8	1855.5	1772.5	1665.4	1554.6	1411.6	1256.5	1085.0	900.6	75.7
28°	1971.5	1943.3	1878.5	1791.2	1683.0	1568.5	1423.2	1261.1	1083.5	892.8	70.9
29°	1981.9	1946.3	1883.0	1794.2	1687.3	1569.5	1421.5	1254.5	1070.1	873.7	65.3
30°	1962.7	1926.4	1866.4	1779.9	1673.7	1556.9	1405.1	1232.8	1046.4	846.2	60.3
31°	1920.8	1890.1	1832.1	1745.3	1643.4	1527.4	1368.0	1197.2	1006.1	809.3	54.5
32°	1865.6	1835.3	1778.3	1699.9	1596.2	1479.2	1317.3	1141.8	958.7	754.4	48.7
33°	1782.6	1765.2	1714.0	1639.1	1535.5	1410.4	1249.2	1075.4	891.1	693.3	43.6
34°	1698.6	1676.7	1640.9	1558.9	1447.4	1322.6	1160.4	983.9	808.6	625.0	38.8
35°	1601.8	1588.7	1532.4	1466.9	1354.9	1227.3	1066.1	894.8	712.5	548.8	34.0
36°	1508.0	1487.8	1423.7	1354.4	1245.7	1107.7	948.6	787.7	629.5	477.4	29.0
37°	1371.8	1341.0	1295.4	1222.2	1095.1	977.6	832.3	683.0	527.4	400.3	23.5
38°	1211.6	1197.2	1133.9	1060.3	955.1	843.6	699.9	573.3	435.1	334.2	17.9
39°	1022.7	1022.5	961.9	908.7	805.8	705.4	575.8	465.3	359.1	269.1	13.9
40°	862.6	832.8	795.5	728.6	649.7	564.5	451.0	364.2	278.7	216.9	10.8
42.5°	452.2	449.7	427.8	377.6	333.4	283.2	225.2	187.6	146.8	119.5	6.8
45°	194.2	195.5	180.3	172.8	155.6	134.7	113.7	94.8	81.2	65.8	4.0
47.5°	49.2	47.2	46.7	48.4	48.4	46.9	42.1	39.6	36.6	33.5	2.3
50°	21.2	20.7	20.2	20.2	18.9	18.2	16.9	15.4	14.1	12.6	1.0
52.5°	7.8	8.1	8.3	8.1	8.1	7.8	7.8	7.6	6.8	6.1	0.5
55°	2.5	2.5	2.5	2.8	2.8	3.0	3.0	3.0	3.0	2.8	0.0
57.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.0	0.3	0.0	0.3	0.3	0.0	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3



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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	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	9.6	9.6	9.6	9.6	9.6	9.6
2.5°	11.1	9.8	8.3	7.1	6.8	6.6
5°	12.4	9.1	6.8	5.5	5.0	4.8
7.5°	13.4	8.3	5.5	4.0	3.5	3.3
10°	13.9	7.3	4.5	3.0	2.3	2.3
12.5°	14.1	6.3	3.3	2.0	1.3	1.3
15°	13.9	5.3	2.5	1.0	0.3	0.3
17.5°	12.6	4.3	1.5	0.3	0.0	0.0
20°	10.8	3.5	1.0	0.0	0.0	0.0
21°	10.3	3.0	0.8	0.0	0.0	0.0
22°	9.6	2.8	0.5	0.0	0.0	0.0
23°	8.8	2.5	0.5	0.0	0.0	0.0
24°	8.1	2.3	0.3	0.0	0.0	0.0
25°	7.6	2.0	0.3	0.0	0.0	0.0
26°	7.1	1.8	0.3	0.0	0.0	0.0
27°	6.3	1.5	0.0	0.0	0.0	0.0
28°	5.8	1.3	0.0	0.0	0.0	0.0
29°	5.0	1.0	0.0	0.0	0.0	0.0
30°	4.3	0.8	0.0	0.0	0.0	0.0
31°	3.5	0.8	0.0	0.0	0.0	0.0
32°	3.0	0.5	0.0	0.0	0.0	0.0
33°	2.5	0.5	0.0	0.0	0.0	0.0
34°	2.3	0.5	0.0	0.0	0.0	0.0
35°	2.0	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.3	0.0	0.0	0.0	0.0
37°	1.3	0.3	0.0	0.0	0.0	0.0
38°	1.0	0.3	0.0	0.0	0.0	0.0
39°	0.8	0.0	0.0	0.0	0.0	0.0
40°	0.8	0.0	0.0	0.0	0.0	0.0
42.5°	0.3	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.3	0.0	0.0	0.3	0.3
47.5°	0.0	0.3	0.0	0.0	0.3	0.5
50°	0.0	0.3	0.3	0.3	0.5	0.8
52.5°	0.0	0.5	0.3	0.3	0.8	0.8
55°	0.3	0.5	0.3	0.5	1.0	1.0
57.5°	0.3	0.5	0.5	0.8	1.0	1.3
60°	0.5	0.8	0.8	0.8	1.3	1.3
62.5°	0.5	0.8	1.0	1.0	1.3	1.5
65°	0.5	1.0	1.0	1.0	1.3	1.5
67.5°	0.8	1.0	1.0	1.0	1.3	1.5
70°	0.8	1.0	1.0	1.0	1.3	1.3
72.5°	0.8	1.0	0.8	1.0	1.0	1.3
75°	0.8	1.0	0.8	0.8	1.0	1.0
77.5°	0.5	0.8	0.8	0.5	0.8	0.8
80°	0.5	0.8	0.5	0.5	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.8	0.5	0.3	0.5	0.5
85°	0.5	0.8	0.5	0.3	0.3	0.3
87.5°	0.5	0.8	0.5	0.3	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)