

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: P1336936

Luminaire Tested: P3A05R209740DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336936
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: P3A05R209740DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 97CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

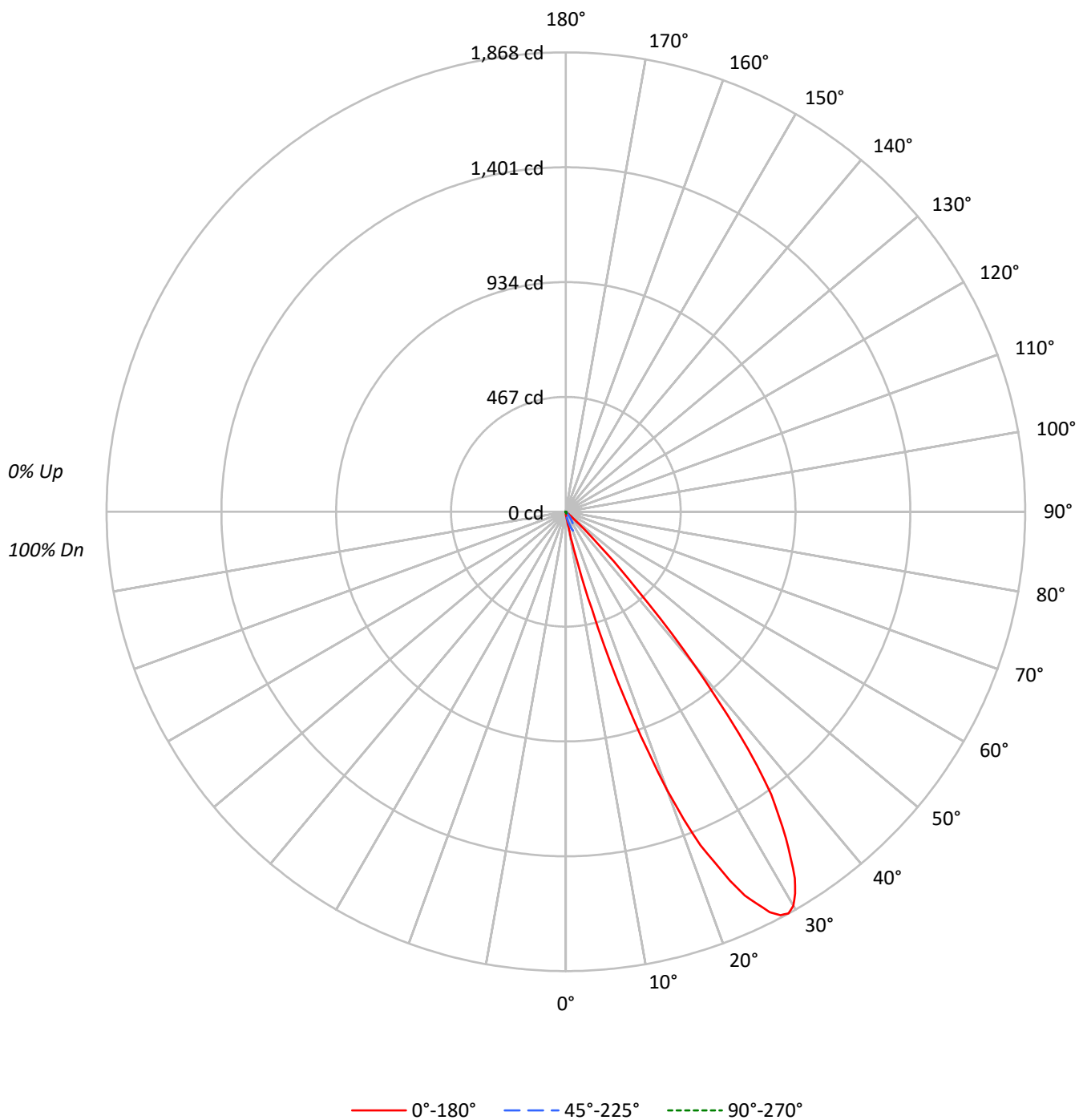
Lumens per Lamp: N/A
Luminaire Lumens: 262.0 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	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°	1974	1974	1974	1974	1974
5°	4556	3412	1893	1145	991
10°	14340	5923	1536	646	468
15°	92918	10965	1135	227	45
20°	280444	18738	770	0	0
25°	416492	18920	460	0	0
30°	468376	14382	177	0	0
35°	404108	8593	134	0	0
40°	232693	2920	0	0	0
45°	56750	1178	62	0	62
50°	6823	341	68	68	239
55°	918	0	191	191	382
60°	88	0	307	307	526
65°	104	104	519	519	726
70°	128	128	641	641	769
75°	0	169	847	593	847
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 57122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	24.3	9.3
20°-30°	105.8	40.4
30°-40°	106.6	40.7
40°-50°	21.4	8.2
50°-60°	1.1	0.4
60°-70°	0.7	0.3
70°-80°	0.6	0.2
80°-90°	0.3	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°	131.3	50.1
0°-40°	237.9	90.8
0°-60°	260.3	99.4
0°-90°	262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	262.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	21	16	9	5	4	3
15°	409	48	5	1	0	160
25°	1721	78	2	0	0	776
35°	1510	32	0	0	0	898
45°	183	4	0	0	0	199
55°	2	0	0	0	1	4
65°	0	0	1	1	1	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°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	13.5	13.5	13.3	13.3	13.1	13.3	12.8	13.1	13.1	12.8	11.6
5°	20.7	21.2	20.9	20.9	20.7	20.9	20.4	20.0	19.5	19.5	15.5
7.5°	34.0	33.8	33.3	33.5	32.8	32.3	31.9	31.6	30.2	29.5	20.2
10°	64.4	65.8	64.7	64.4	60.1	59.9	57.0	53.0	49.4	47.5	26.6
12.5°	177.3	184.9	173.0	167.3	164.0	151.2	145.7	131.7	118.1	107.9	33.8
15°	409.3	428.1	404.1	405.7	385.8	349.2	317.1	289.5	256.9	224.1	48.3
17.5°	802.0	786.8	773.7	751.6	710.9	657.2	588.1	517.9	457.3	393.9	67.3
20°	1201.8	1188.2	1158.5	1110.3	1058.5	978.8	896.6	791.3	689.3	593.8	80.3
21°	1339.4	1334.9	1286.2	1256.5	1176.6	1100.5	1005.7	893.0	778.2	665.1	82.5
22°	1462.3	1435.2	1409.1	1365.1	1285.7	1203.0	1097.4	978.8	854.3	728.5	82.7
23°	1547.4	1535.0	1510.3	1460.6	1381.7	1284.5	1173.3	1049.2	918.0	773.5	82.0
24°	1641.5	1625.8	1589.7	1531.7	1452.1	1356.1	1229.1	1106.0	963.4	811.3	80.1
25°	1721.4	1696.9	1654.1	1591.6	1504.6	1405.5	1277.9	1142.6	995.0	836.7	78.2
26°	1773.2	1759.9	1705.0	1637.0	1543.8	1441.6	1311.4	1170.7	1015.4	848.3	75.1
27°	1827.2	1802.7	1748.7	1670.5	1569.5	1465.2	1330.4	1184.2	1022.6	848.8	71.3
28°	1858.1	1831.4	1770.4	1688.1	1586.1	1478.2	1341.3	1188.5	1021.1	841.4	66.8
29°	1867.8	1834.3	1774.6	1691.0	1590.2	1479.2	1339.7	1182.3	1008.5	823.4	61.6
30°	1849.8	1815.5	1759.0	1677.4	1577.4	1467.3	1324.2	1161.9	986.2	797.5	56.8
31°	1810.3	1781.3	1726.6	1644.9	1548.8	1439.5	1289.3	1128.3	948.2	762.8	51.3
32°	1758.2	1729.7	1676.0	1602.1	1504.4	1394.1	1241.5	1076.1	903.5	710.9	45.9
33°	1680.0	1663.6	1615.4	1544.8	1447.1	1329.2	1177.3	1013.5	839.8	653.4	41.1
34°	1600.9	1580.2	1546.5	1469.2	1364.1	1246.5	1093.6	927.3	762.1	589.0	36.6
35°	1509.6	1497.2	1444.2	1382.4	1276.9	1156.6	1004.7	843.3	671.5	517.2	32.1
36°	1421.2	1402.2	1341.8	1276.4	1174.0	1044.0	894.0	742.3	593.3	450.0	27.3
37°	1292.8	1263.8	1220.8	1151.9	1032.1	921.3	784.4	643.7	497.0	377.2	22.1
38°	1141.9	1128.3	1068.7	999.3	900.2	795.1	659.6	540.3	410.0	314.9	16.9
39°	963.9	963.6	906.6	856.4	759.4	664.8	542.7	438.5	338.5	253.6	13.1
40°	812.9	784.9	749.7	686.7	612.3	532.0	425.0	343.2	262.7	204.4	10.2
42.5°	426.2	423.8	403.1	355.8	314.2	266.9	212.3	176.8	138.3	112.7	6.4
45°	183.0	184.2	170.0	162.8	146.7	126.9	107.2	89.4	76.5	62.0	3.8
47.5°	46.4	44.4	44.0	45.6	45.6	44.2	39.7	37.3	34.5	31.6	2.1
50°	20.0	19.5	19.0	19.0	17.8	17.1	15.9	14.5	13.3	11.9	1.0
52.5°	7.4	7.6	7.8	7.6	7.6	7.4	7.4	7.1	6.4	5.7	0.5
55°	2.4	2.4	2.4	2.6	2.6	2.9	2.9	2.9	2.9	2.6	0.0
57.5°	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
72.5°	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.0	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2



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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	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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°	9.0	9.0	9.0	9.0	9.0	9.0
2.5°	10.5	9.3	7.8	6.7	6.4	6.2
5°	11.6	8.6	6.4	5.2	4.8	4.5
7.5°	12.6	7.8	5.2	3.8	3.3	3.1
10°	13.1	6.9	4.3	2.9	2.1	2.1
12.5°	13.3	5.9	3.1	1.9	1.2	1.2
15°	13.1	5.0	2.4	1.0	0.2	0.2
17.5°	11.9	4.0	1.4	0.2	0.0	0.0
20°	10.2	3.3	1.0	0.0	0.0	0.0
21°	9.7	2.9	0.7	0.0	0.0	0.0
22°	9.0	2.6	0.5	0.0	0.0	0.0
23°	8.3	2.4	0.5	0.0	0.0	0.0
24°	7.6	2.1	0.2	0.0	0.0	0.0
25°	7.1	1.9	0.2	0.0	0.0	0.0
26°	6.7	1.7	0.2	0.0	0.0	0.0
27°	5.9	1.4	0.0	0.0	0.0	0.0
28°	5.5	1.2	0.0	0.0	0.0	0.0
29°	4.8	1.0	0.0	0.0	0.0	0.0
30°	4.0	0.7	0.0	0.0	0.0	0.0
31°	3.3	0.7	0.0	0.0	0.0	0.0
32°	2.9	0.5	0.0	0.0	0.0	0.0
33°	2.4	0.5	0.0	0.0	0.0	0.0
34°	2.1	0.5	0.0	0.0	0.0	0.0
35°	1.9	0.5	0.0	0.0	0.0	0.0
36°	1.4	0.2	0.0	0.0	0.0	0.0
37°	1.2	0.2	0.0	0.0	0.0	0.0
38°	1.0	0.2	0.0	0.0	0.0	0.0
39°	0.7	0.0	0.0	0.0	0.0	0.0
40°	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	0.2	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.2	0.0	0.0	0.2	0.2
47.5°	0.0	0.2	0.0	0.0	0.2	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.2	0.7	0.7
55°	0.2	0.5	0.2	0.5	1.0	1.0
57.5°	0.2	0.5	0.5	0.7	1.0	1.2
60°	0.5	0.7	0.7	0.7	1.2	1.2
62.5°	0.5	0.7	1.0	1.0	1.2	1.4
65°	0.5	1.0	1.0	1.0	1.2	1.4
67.5°	0.7	1.0	1.0	1.0	1.2	1.4
70°	0.7	1.0	1.0	1.0	1.2	1.2
72.5°	0.7	1.0	0.7	1.0	1.0	1.2
75°	0.7	1.0	0.7	0.7	1.0	1.0
77.5°	0.5	0.7	0.7	0.5	0.7	0.7
80°	0.5	0.7	0.5	0.5	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.5	0.7	0.5	0.2	0.5	0.5
85°	0.5	0.7	0.5	0.2	0.2	0.2
87.5°	0.5	0.7	0.5	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)