

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: P1336859

Luminaire Tested: P3A05R209040DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336859
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: P3A05R209040DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

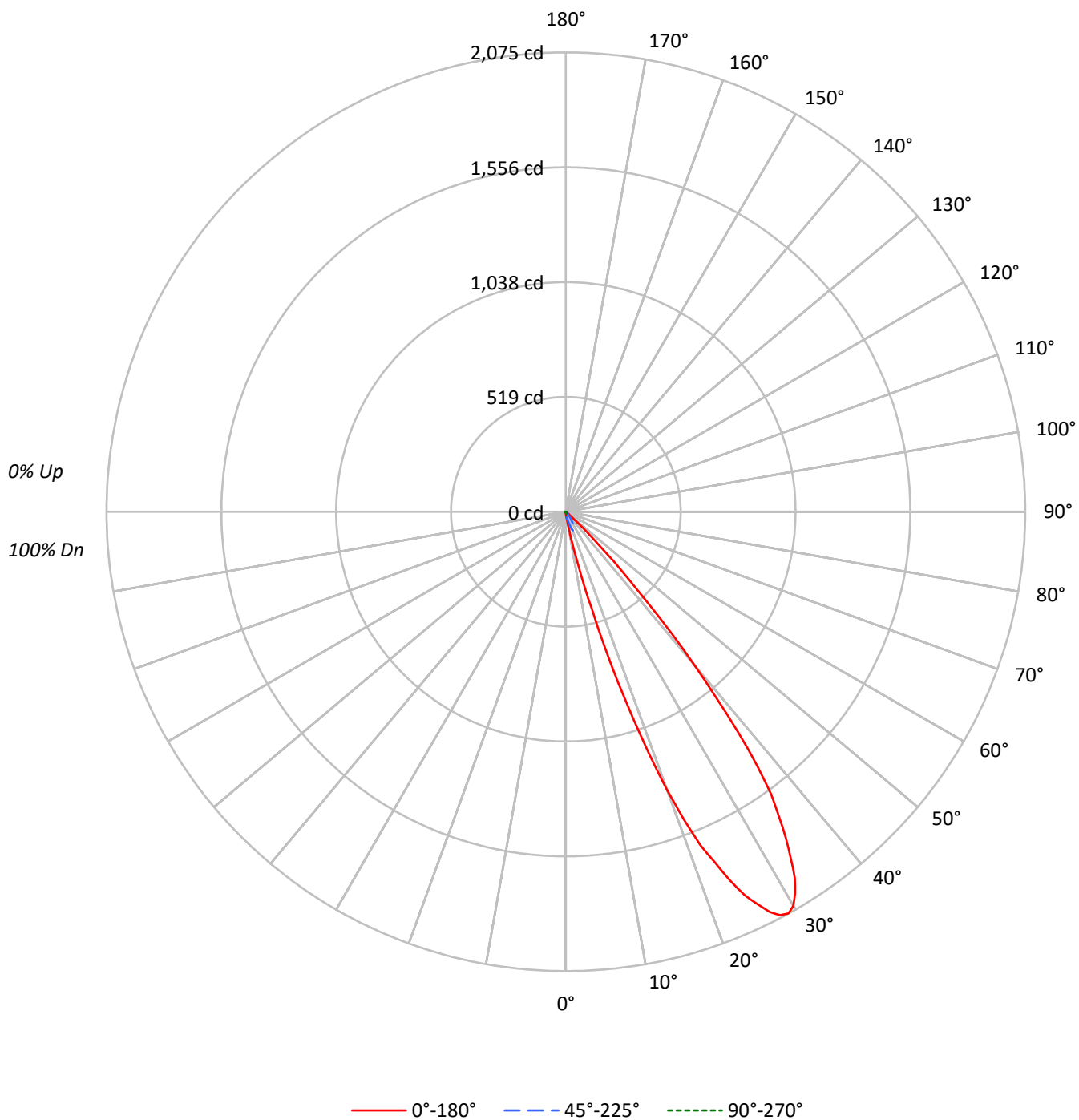
Lumens per Lamp: N/A
Luminaire Lumens: 291.1 lumens
Efficiency: N/A
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1336859

CATALOG NUMBER: P3A05R209040DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1336859

CATALOG NUMBER: P3A05R209040DE010 E3A301WMH

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°	2193	2193	2193	2193	2193
5°	5063	3786	2091	1277	1101
10°	15920	6591	1715	713	534
15°	103202	12168	1249	250	68
20°	311480	20815	863	0	0
25°	462583	21025	508	0	0
30°	520207	15977	203	0	0
35°	448840	9530	134	0	0
40°	258456	3263	0	0	0
45°	63045	1302	93	0	93
50°	7573	375	102	102	273
55°	994	0	191	191	421
60°	132	0	351	351	570
65°	156	156	571	571	830
70°	192	192	705	705	833
75°	0	254	932	678	932
80°	0	379	1010	631	1010
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 63448 cd/sqm

TEST NUMBER: P1336859

CATALOG NUMBER: P3A05R209040DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.5
10°-20°	27.0	9.3
20°-30°	117.5	40.4
30°-40°	118.4	40.7
40°-50°	23.7	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°	145.9	50.1
0°-40°	264.2	90.8
0°-60°	289.2	99.4
0°-90°	291.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	291.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10	10	10	10	10	
5°	23	17	10	6	5	4
15°	455	54	6	1	0	178
25°	1912	87	2	0	0	862
35°	1677	36	0	0	0	998
45°	203	4	0	0	0	221
55°	3	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	

TEST NUMBER: P1336859

CATALOG NUMBER: P3A05R209040DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
2.5°	15.0	15.0	14.8	14.8	14.5	14.8	14.3	14.5	14.5	14.3	12.9
5°	23.0	23.5	23.2	23.2	23.0	23.2	22.7	22.2	21.6	21.6	17.2
7.5°	37.8	37.5	37.0	37.2	36.4	35.9	35.4	35.1	33.5	32.7	22.4
10°	71.5	73.1	71.8	71.5	66.8	66.5	63.4	58.9	54.9	52.8	29.6
12.5°	196.9	205.4	192.2	185.9	182.2	167.9	161.8	146.3	131.2	119.9	37.5
15°	454.6	475.5	448.8	450.7	428.5	387.8	352.2	321.6	285.4	249.0	53.6
17.5°	890.8	873.9	859.3	834.8	789.6	730.0	653.2	575.3	507.9	437.5	74.7
20°	1334.8	1319.8	1286.8	1233.2	1175.6	1087.2	995.8	878.9	765.6	659.5	89.2
21°	1487.7	1482.7	1428.5	1395.5	1306.8	1222.3	1117.0	991.9	864.4	738.7	91.6
22°	1624.2	1594.1	1565.0	1516.2	1428.0	1336.1	1218.9	1087.2	948.8	809.2	91.9
23°	1718.7	1705.0	1677.5	1622.3	1534.7	1426.7	1303.1	1165.3	1019.6	859.1	91.1
24°	1823.2	1805.8	1765.7	1701.3	1612.8	1506.2	1365.2	1228.4	1070.0	901.1	89.0
25°	1911.9	1884.7	1837.2	1767.8	1671.2	1561.1	1419.3	1269.1	1105.1	929.3	86.9
26°	1969.5	1954.7	1893.7	1818.2	1714.7	1601.2	1456.5	1300.2	1127.8	942.2	83.4
27°	2029.4	2002.2	1942.3	1855.4	1743.2	1627.3	1477.6	1315.3	1135.8	942.8	79.2
28°	2063.7	2034.2	1966.3	1875.0	1761.7	1641.9	1489.8	1320.0	1134.2	934.6	74.2
29°	2074.6	2037.3	1971.1	1878.1	1766.2	1642.9	1487.9	1313.2	1120.2	914.5	68.4
30°	2054.5	2016.5	1953.6	1863.1	1751.9	1629.7	1470.8	1290.5	1095.4	885.7	63.1
31°	2010.7	1978.5	1917.7	1826.9	1720.3	1598.8	1432.0	1253.2	1053.1	847.2	57.0
32°	1952.9	1921.2	1861.5	1779.4	1670.9	1548.4	1378.9	1195.2	1003.5	789.6	51.0
33°	1866.0	1847.8	1794.2	1715.8	1607.3	1476.3	1307.6	1125.7	932.7	725.8	45.7
34°	1778.1	1755.1	1717.6	1631.8	1515.1	1384.4	1214.7	1029.9	846.4	654.2	40.7
35°	1676.7	1663.0	1604.1	1535.5	1418.2	1284.7	1116.0	936.7	745.8	574.5	35.6
36°	1578.5	1557.4	1490.3	1417.7	1303.9	1159.5	992.9	824.5	659.0	499.8	30.4
37°	1435.9	1403.7	1355.9	1279.4	1146.3	1023.3	871.2	714.9	552.0	419.0	24.6
38°	1268.3	1253.2	1187.0	1109.9	999.8	883.1	732.6	600.1	455.4	349.8	18.7
39°	1070.5	1070.3	1006.9	951.2	843.5	738.4	602.7	487.1	375.9	281.7	14.5
40°	902.9	871.7	832.7	762.7	680.1	590.8	472.0	381.2	291.7	227.0	11.4
42.5°	473.4	470.7	447.8	395.2	349.0	296.5	235.8	196.4	153.7	125.1	7.1
45°	203.3	204.6	188.8	180.8	162.9	141.0	119.1	99.3	85.0	68.9	4.2
47.5°	51.5	49.4	48.8	50.7	50.7	49.1	44.1	41.4	38.3	35.1	2.4
50°	22.2	21.6	21.1	21.1	19.8	19.0	17.7	16.1	14.8	13.2	1.1
52.5°	8.2	8.4	8.7	8.4	8.4	8.2	8.2	7.9	7.1	6.3	0.5
55°	2.6	2.6	2.6	2.9	2.9	3.2	3.2	3.2	3.2	2.9	0.0
57.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	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



TEST NUMBER: P1336859

CATALOG NUMBER: P3A05R209040DE010 E3A301WMH

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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CATALOG NUMBER: P3A05R209040DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	10.0	10.0	10.0	10.0	10.0	10.0
2.5°	11.6	10.3	8.7	7.4	7.1	6.9
5°	12.9	9.5	7.1	5.8	5.3	5.0
7.5°	14.0	8.7	5.8	4.2	3.7	3.4
10°	14.5	7.7	4.8	3.2	2.4	2.4
12.5°	14.8	6.6	3.4	2.1	1.3	1.3
15°	14.5	5.5	2.6	1.1	0.3	0.3
17.5°	13.2	4.5	1.6	0.3	0.0	0.0
20°	11.4	3.7	1.1	0.0	0.0	0.0
21°	10.8	3.2	0.8	0.0	0.0	0.0
22°	10.0	2.9	0.5	0.0	0.0	0.0
23°	9.2	2.6	0.5	0.0	0.0	0.0
24°	8.4	2.4	0.3	0.0	0.0	0.0
25°	7.9	2.1	0.3	0.0	0.0	0.0
26°	7.4	1.8	0.3	0.0	0.0	0.0
27°	6.6	1.6	0.0	0.0	0.0	0.0
28°	6.1	1.3	0.0	0.0	0.0	0.0
29°	5.3	1.1	0.0	0.0	0.0	0.0
30°	4.5	0.8	0.0	0.0	0.0	0.0
31°	3.7	0.8	0.0	0.0	0.0	0.0
32°	3.2	0.5	0.0	0.0	0.0	0.0
33°	2.6	0.5	0.0	0.0	0.0	0.0
34°	2.4	0.5	0.0	0.0	0.0	0.0
35°	2.1	0.5	0.0	0.0	0.0	0.0
36°	1.6	0.3	0.0	0.0	0.0	0.0
37°	1.3	0.3	0.0	0.0	0.0	0.0
38°	1.1	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	1.1	1.1
57.5°	0.3	0.5	0.5	0.8	1.1	1.3
60°	0.5	0.8	0.8	0.8	1.3	1.3
62.5°	0.5	0.8	1.1	1.1	1.3	1.6
65°	0.5	1.1	1.1	1.1	1.3	1.6
67.5°	0.8	1.1	1.1	1.1	1.3	1.6
70°	0.8	1.1	1.1	1.1	1.3	1.3
72.5°	0.8	1.1	0.8	1.1	1.1	1.3
75°	0.8	1.1	0.8	0.8	1.1	1.1
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)