

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: P1336301

Luminaire Tested: P3A05R159027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R159027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

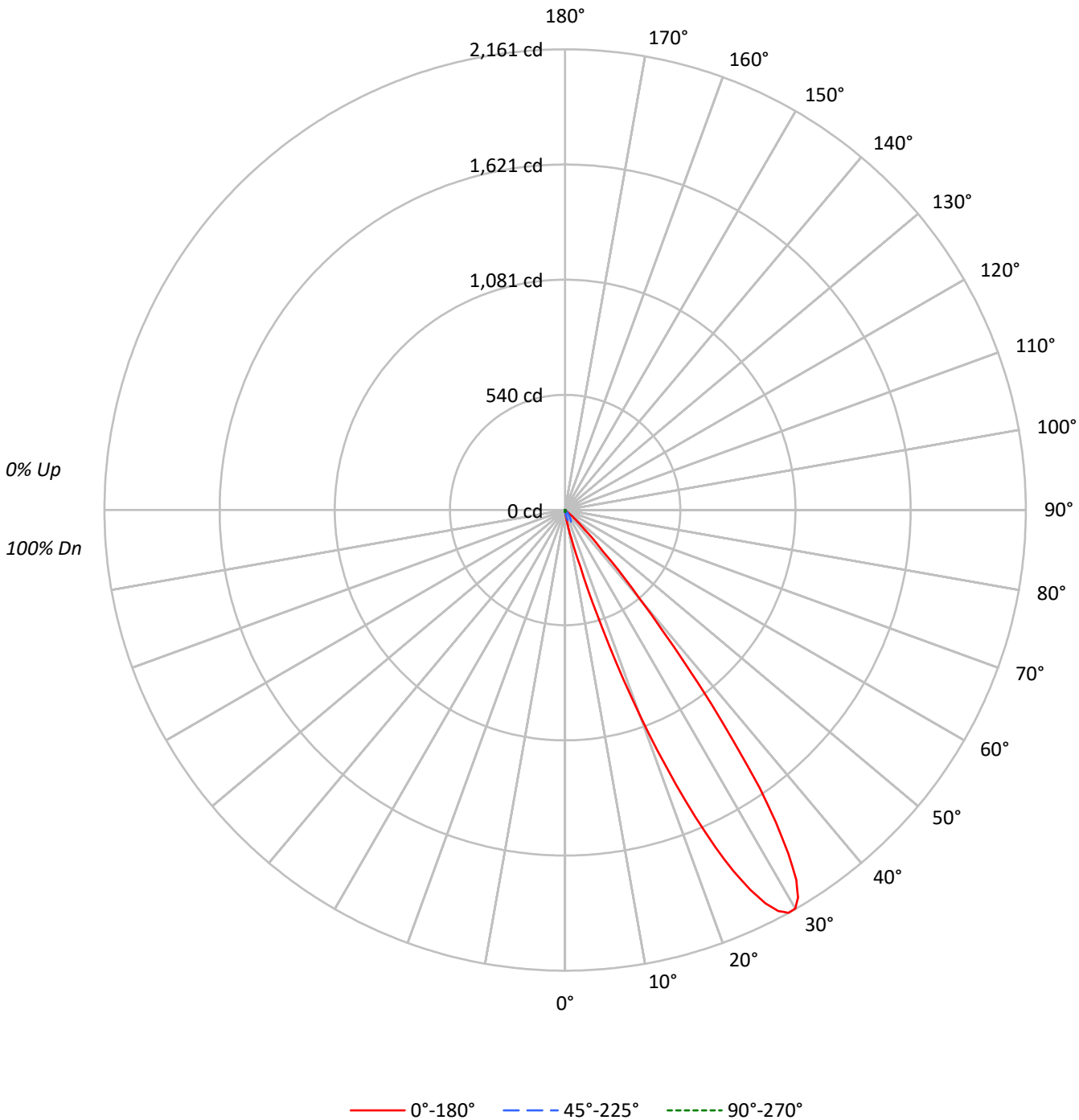
Lumens per Lamp: N/A
Luminaire Lumens: 236.0 lumens
Efficiency: N/A
Efficacy: 32.8 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	63	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	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	42	42	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1710	1710	1710	1710	1710
5°	3698	2729	1607	858	704
10°	16366	5166	1269	356	245
15°	61862	11941	885	159	114
20°	237904	16825	537	47	47
25°	452397	15775	266	0	0
30°	546514	12736	127	0	0
35°	426246	8673	54	0	0
40°	155549	4265	57	0	57
45°	39942	1271	62	0	155
50°	6720	171	68	68	239
55°	879	0	191	268	421
60°	88	88	307	395	614
65°	104	104	467	571	726
70°	128	128	577	577	705
75°	169	169	763	593	763
80°	0	253	884	631	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 39942 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	18.1	7.7
20°-30°	100.3	42.5
30°-40°	96.9	41.1
40°-50°	16.9	7.1
50°-60°	1.2	0.5
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°	119.5	50.6
0°-40°	216.4	91.7
0°-60°	234.4	99.3
0°-90°	236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	236.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	17	12	7	4	3	3
15°	272	53	4	1	0	121
25°	1870	65	1	0	0	836
35°	1592	32	0	0	0	916
45°	129	4	0	0	0	138
55°	2	0	0	1	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°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	11.5	11.0	11.2	11.2	11.2	11.2	11.2	10.8	10.8	11.0	9.9
5°	16.8	16.8	16.5	16.8	16.8	16.5	16.1	15.8	15.8	15.4	12.4
7.5°	33.5	33.1	33.1	32.6	30.3	29.6	29.2	28.0	25.9	25.5	16.1
10°	73.5	73.7	72.1	70.0	69.8	66.3	65.2	63.1	59.2	55.3	23.2
12.5°	133.4	130.4	126.5	126.7	120.1	117.8	112.5	106.7	100.8	94.6	38.1
15°	272.5	264.0	269.1	256.7	242.7	226.8	210.7	190.5	173.3	155.0	52.6
17.5°	573.9	582.2	568.2	515.2	482.6	444.2	390.3	338.2	293.6	257.8	64.3
20°	1019.5	1031.7	984.2	938.0	858.8	772.5	682.5	580.6	483.0	398.5	72.1
21°	1205.7	1198.3	1178.8	1104.9	1013.5	913.5	803.3	690.8	572.5	462.8	72.8
22°	1385.7	1389.1	1343.7	1266.3	1171.3	1060.4	925.9	787.0	659.6	515.2	71.6
23°	1565.0	1576.0	1515.8	1443.3	1323.7	1198.6	1042.9	893.0	735.5	575.1	69.3
24°	1730.9	1723.4	1682.7	1591.4	1463.5	1317.0	1155.4	973.6	798.0	626.3	67.5
25°	1869.8	1868.9	1805.1	1716.3	1570.0	1407.7	1229.6	1039.5	851.5	660.9	65.2
26°	1983.5	1964.9	1914.6	1806.2	1661.8	1490.6	1290.4	1087.5	881.5	678.4	62.9
27°	2071.2	2057.9	1990.4	1877.6	1726.8	1537.4	1329.4	1111.3	895.3	684.1	59.9
28°	2130.2	2115.7	2043.8	1927.7	1762.6	1566.8	1350.1	1121.4	895.3	678.6	57.2
29°	2160.7	2141.0	2069.3	1944.9	1770.9	1570.2	1345.0	1111.6	881.3	661.6	53.9
30°	2158.4	2133.8	2058.8	1929.3	1746.3	1542.0	1316.8	1076.0	849.6	636.4	50.3
31°	2121.2	2093.7	2009.9	1876.5	1695.6	1488.8	1263.5	1028.2	806.2	603.5	46.6
32°	2045.7	2010.8	1929.1	1796.1	1617.5	1409.1	1186.2	954.5	741.3	555.6	42.7
33°	1922.6	1887.5	1799.8	1675.2	1511.9	1308.1	1083.6	875.3	667.4	498.4	39.5
34°	1768.6	1736.5	1660.9	1535.4	1378.8	1180.2	965.6	765.8	590.7	441.7	36.0
35°	1592.3	1541.1	1472.7	1373.3	1220.6	1020.9	838.2	663.9	511.7	382.2	32.4
36°	1353.8	1362.9	1290.4	1168.7	1042.2	885.7	710.3	553.5	427.9	325.8	29.2
37°	1142.3	1127.9	1081.7	987.6	877.4	722.0	595.3	469.2	360.0	275.5	25.7
38°	921.5	924.7	879.5	807.2	697.9	593.7	479.1	385.4	301.2	234.4	22.5
39°	721.3	718.8	706.6	639.6	540.6	472.2	388.2	319.6	250.9	197.7	19.1
40°	543.4	547.5	519.1	478.7	421.0	364.8	309.2	254.8	207.5	166.7	14.9
42.5°	264.2	270.7	251.8	241.5	216.0	194.0	163.7	133.6	113.6	98.3	6.7
45°	128.8	125.1	123.5	118.5	112.5	100.6	89.1	76.4	66.8	57.6	4.1
47.5°	65.9	64.0	64.0	62.0	59.9	56.0	50.3	46.1	41.6	35.8	1.6
50°	19.7	19.5	19.3	19.5	18.8	19.5	20.0	20.2	18.4	18.1	0.5
52.5°	7.8	8.0	7.8	8.5	8.5	8.3	8.5	8.3	8.0	7.1	0.0
55°	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.8	2.5	2.8	0.0
57.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.2
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	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°	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	9.2	8.0	6.7	5.5	5.1	4.8
5°	9.9	7.3	5.1	3.9	3.4	3.2
7.5°	10.6	6.7	3.9	2.8	2.1	1.8
10°	11.0	5.7	3.0	1.6	1.1	1.1
12.5°	11.0	4.6	2.1	0.9	0.7	0.7
15°	10.8	3.9	1.4	0.7	0.5	0.5
17.5°	10.6	3.0	0.9	0.5	0.2	0.5
20°	9.9	2.3	0.5	0.2	0.2	0.2
21°	9.6	2.1	0.5	0.2	0.2	0.2
22°	9.2	1.8	0.2	0.0	0.2	0.2
23°	8.7	1.4	0.2	0.0	0.0	0.0
24°	8.0	1.1	0.2	0.0	0.0	0.0
25°	7.6	1.1	0.2	0.0	0.0	0.0
26°	7.1	0.7	0.0	0.0	0.0	0.0
27°	6.4	0.5	0.0	0.0	0.0	0.0
28°	6.0	0.5	0.0	0.0	0.0	0.0
29°	5.3	0.5	0.0	0.0	0.0	0.0
30°	4.6	0.5	0.0	0.0	0.0	0.0
31°	3.7	0.2	0.0	0.0	0.0	0.0
32°	3.0	0.2	0.0	0.0	0.0	0.0
33°	2.1	0.2	0.0	0.0	0.0	0.0
34°	1.4	0.2	0.0	0.0	0.0	0.0
35°	1.1	0.2	0.0	0.0	0.0	0.0
36°	0.7	0.2	0.0	0.0	0.0	0.2
37°	0.7	0.2	0.0	0.0	0.0	0.2
38°	0.5	0.2	0.0	0.0	0.0	0.2
39°	0.2	0.2	0.0	0.0	0.0	0.2
40°	0.2	0.2	0.0	0.0	0.0	0.2
42.5°	0.0	0.2	0.0	0.0	0.2	0.5
45°	0.0	0.2	0.0	0.0	0.2	0.5
47.5°	0.0	0.2	0.0	0.0	0.5	0.5
50°	0.0	0.2	0.2	0.2	0.5	0.7
52.5°	0.0	0.5	0.2	0.5	0.7	0.9
55°	0.2	0.5	0.5	0.7	0.9	1.1
57.5°	0.2	0.7	0.7	0.9	1.1	1.1
60°	0.5	0.7	0.9	0.9	1.4	1.4
62.5°	0.5	0.9	0.9	0.9	1.4	1.4
65°	0.5	0.9	0.9	1.1	1.4	1.4
67.5°	0.5	0.9	0.9	0.9	1.1	1.4
70°	0.5	0.9	0.7	0.9	1.1	1.1
72.5°	0.5	0.9	0.7	0.7	0.9	1.1
75°	0.5	0.9	0.7	0.7	0.9	0.9
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	0.2	0.0	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)