

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: P1339832

Luminaire Tested: P3A09R159024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339832
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: P3A09R159024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

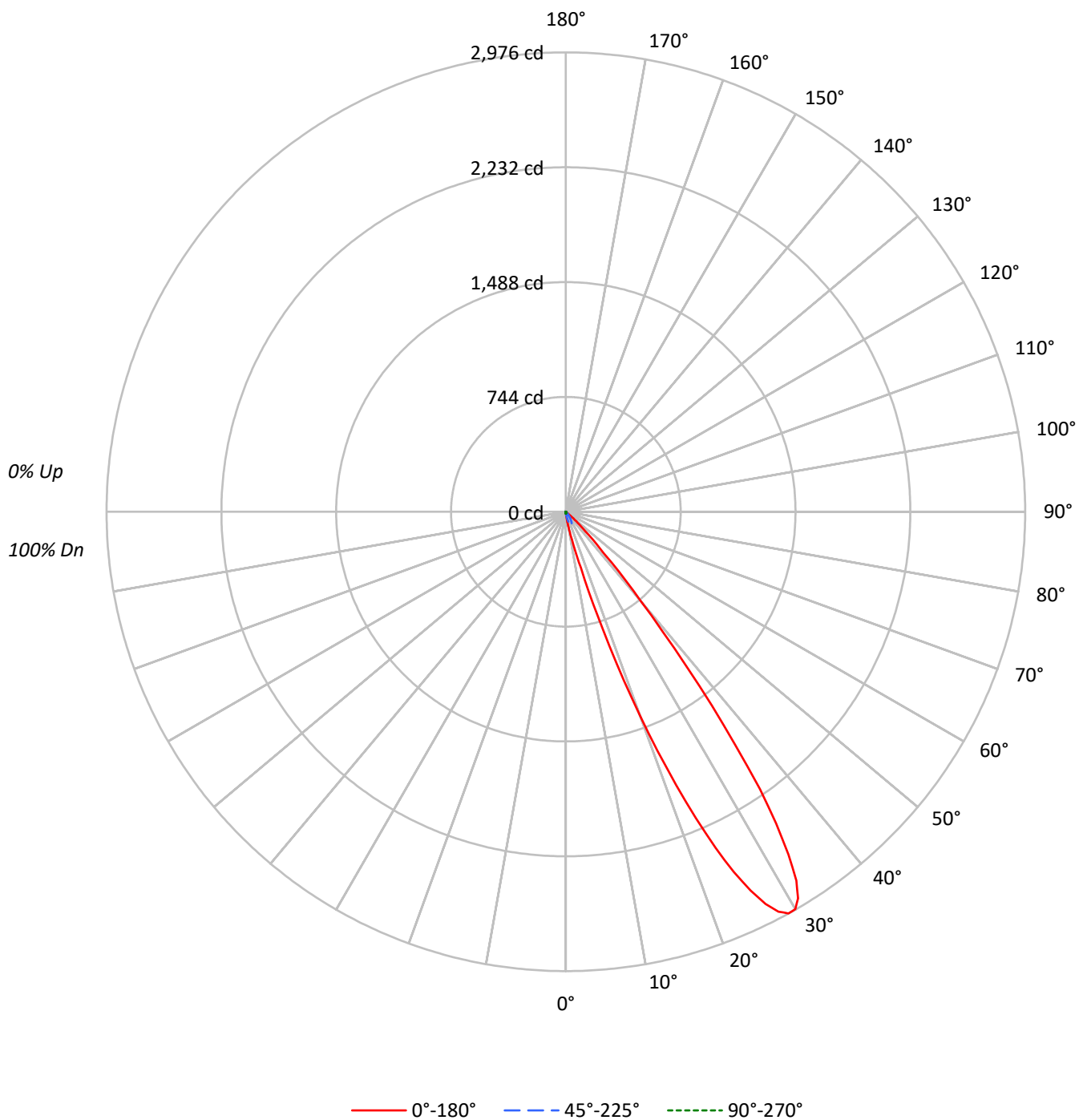
Lumens per Lamp: N/A
Luminaire Lumens: 324.9 lumens
Efficiency: N/A
Efficacy: 29.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1339832

CATALOG NUMBER: P3A09R159024DE010 E3A301WMH

Luminous Intensity Polar Plot



TEST NUMBER: P1339832

CATALOG NUMBER: P3A09R159024DE010 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	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°	2346	2346	2346	2346	2346
5°	5085	3764	2223	1189	969
10°	22534	7103	1759	490	356
15°	85199	16436	1226	204	136
20°	327628	23172	747	70	70
25°	623020	21727	387	0	0
30°	752622	17522	152	0	0
35°	586996	11939	80	0	0
40°	214201	5868	86	0	86
45°	55013	1768	93	0	186
50°	9279	205	102	102	307
55°	1223	0	229	344	612
60°	132	132	395	570	833
65°	156	156	675	830	986
70°	192	192	833	833	1026
75°	254	254	1101	763	1101
80°	0	379	1137	758	1137
85°	0	755	2264	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 55013 cd/sqm

TEST NUMBER: P1339832

CATALOG NUMBER: P3A09R159024DE010 E3A301WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.5
10°-20°	24.9	7.7
20°-30°	138.1	42.5
30°-40°	133.4	41.1
40°-50°	23.2	7.1
50°-60°	1.7	0.5
60°-70°	1.0	0.3
70°-80°	0.8	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°	164.5	50.6
0°-40°	297.9	91.7
0°-60°	322.8	99.3
0°-90°	324.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	324.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	23	17	10	5	4	5
15°	375	72	5	1	1	167
25°	2575	90	2	0	0	1151
35°	2193	45	0	0	0	1261
45°	177	6	0	0	1	191
55°	3	0	1	1	2	6
65°	0	0	1	2	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1339832

CATALOG NUMBER: P3A09R159024DE010 E3A301WMH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	15.8	15.2	15.5	15.5	15.5	15.5	15.5	14.9	14.9	15.2	13.6
5°	23.1	23.1	22.8	23.1	23.1	22.8	22.1	21.8	21.8	21.2	17.1
7.5°	46.2	45.5	45.5	44.9	41.7	40.8	40.2	38.6	35.7	35.1	22.1
10°	101.2	101.5	99.3	96.4	96.1	91.4	89.8	86.9	81.6	76.2	31.9
12.5°	183.7	179.6	174.2	174.5	165.3	162.2	154.9	147.0	138.8	130.3	52.5
15°	375.3	363.6	370.5	353.4	334.2	312.3	290.2	262.4	238.7	213.4	72.4
17.5°	790.4	801.7	782.5	709.4	664.5	611.7	537.4	465.7	404.3	355.0	88.5
20°	1404.0	1420.7	1355.3	1291.8	1182.7	1063.8	939.9	799.5	665.2	548.8	99.3
21°	1660.4	1650.3	1623.4	1521.6	1395.8	1257.9	1106.2	951.3	788.5	637.3	100.2
22°	1908.2	1913.0	1850.4	1743.8	1613.0	1460.3	1275.0	1083.7	908.3	709.4	98.6
23°	2155.1	2170.3	2087.5	1987.6	1822.9	1650.6	1436.2	1229.8	1012.9	791.9	95.5
24°	2383.7	2373.3	2317.3	2191.5	2015.4	1813.7	1591.1	1340.8	1098.9	862.4	92.9
25°	2575.0	2573.7	2485.8	2363.5	2162.1	1938.6	1693.3	1431.5	1172.6	910.2	89.8
26°	2731.5	2705.9	2636.6	2487.4	2288.6	2052.7	1777.0	1497.6	1214.0	934.2	86.6
27°	2852.2	2833.9	2741.0	2585.7	2378.0	2117.2	1830.8	1530.4	1233.0	942.1	82.5
28°	2933.5	2913.6	2814.6	2654.7	2427.3	2157.7	1859.2	1544.4	1233.0	934.5	78.7
29°	2975.5	2948.4	2849.7	2678.4	2438.7	2162.4	1852.3	1530.8	1213.7	911.1	74.3
30°	2972.4	2938.6	2835.2	2656.9	2404.9	2123.5	1813.4	1481.8	1170.0	876.3	69.2
31°	2921.2	2883.2	2767.8	2584.2	2335.0	2050.2	1740.1	1416.0	1110.3	831.1	64.2
32°	2817.2	2769.1	2656.6	2473.5	2227.5	1940.5	1633.5	1314.5	1020.8	765.1	58.8
33°	2647.7	2599.3	2478.6	2306.9	2082.1	1801.4	1492.2	1205.5	919.0	686.3	54.4
34°	2435.6	2391.3	2287.3	2114.4	1898.8	1625.3	1329.7	1054.7	813.4	608.3	49.6
35°	2192.8	2122.3	2028.1	1891.2	1680.9	1405.9	1154.2	914.3	704.7	526.4	44.6
36°	1864.3	1876.9	1777.0	1609.5	1435.3	1219.7	978.1	762.2	589.3	448.6	40.2
37°	1573.1	1553.2	1489.7	1360.0	1208.3	994.3	819.8	646.2	495.7	379.4	35.4
38°	1269.0	1273.4	1211.1	1111.6	961.1	817.5	659.8	530.8	414.8	322.8	31.0
39°	993.3	989.8	973.1	880.8	744.5	650.3	534.6	440.1	345.5	272.2	26.2
40°	748.3	754.0	714.8	659.2	579.8	502.4	425.8	350.9	285.8	229.5	20.5
42.5°	363.9	372.7	346.8	332.6	297.5	267.1	225.4	184.0	156.5	135.3	9.2
45°	177.4	172.3	170.1	163.1	154.9	138.5	122.7	105.3	92.0	79.4	5.7
47.5°	90.7	88.2	88.2	85.4	82.5	77.1	69.2	63.5	57.2	49.3	2.2
50°	27.2	26.9	26.6	26.9	25.9	26.9	27.5	27.8	25.3	25.0	0.6
52.5°	10.7	11.1	10.7	11.7	11.7	11.4	11.7	11.4	11.1	9.8	0.0
55°	3.2	3.2	3.2	3.2	3.2	3.2	3.5	3.8	3.5	3.8	0.0
57.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3
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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	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: P1339832

CATALOG NUMBER: P3A09R159024DE010 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

TEST NUMBER: P1339832

CATALOG NUMBER: P3A09R159024DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	10.7	10.7	10.7	10.7	10.7	10.7
2.5°	12.6	11.1	9.2	7.6	7.0	6.6
5°	13.6	10.1	7.0	5.4	4.7	4.4
7.5°	14.5	9.2	5.4	3.8	2.8	2.5
10°	15.2	7.9	4.1	2.2	1.6	1.6
12.5°	15.2	6.3	2.8	1.3	0.9	0.9
15°	14.9	5.4	1.9	0.9	0.6	0.6
17.5°	14.5	4.1	1.3	0.6	0.3	0.6
20°	13.6	3.2	0.6	0.3	0.3	0.3
21°	13.3	2.8	0.6	0.3	0.3	0.3
22°	12.6	2.5	0.3	0.0	0.3	0.3
23°	12.0	1.9	0.3	0.0	0.0	0.0
24°	11.1	1.6	0.3	0.0	0.0	0.0
25°	10.4	1.6	0.3	0.0	0.0	0.0
26°	9.8	0.9	0.0	0.0	0.0	0.0
27°	8.9	0.6	0.0	0.0	0.0	0.0
28°	8.2	0.6	0.0	0.0	0.0	0.0
29°	7.3	0.6	0.0	0.0	0.0	0.0
30°	6.3	0.6	0.0	0.0	0.0	0.0
31°	5.1	0.3	0.0	0.0	0.0	0.0
32°	4.1	0.3	0.0	0.0	0.0	0.0
33°	2.8	0.3	0.0	0.0	0.0	0.0
34°	1.9	0.3	0.0	0.0	0.0	0.0
35°	1.6	0.3	0.0	0.0	0.0	0.0
36°	0.9	0.3	0.0	0.0	0.0	0.3
37°	0.9	0.3	0.0	0.0	0.0	0.3
38°	0.6	0.3	0.0	0.0	0.0	0.3
39°	0.3	0.3	0.0	0.0	0.0	0.3
40°	0.3	0.3	0.0	0.0	0.0	0.3
42.5°	0.0	0.3	0.0	0.0	0.3	0.6
45°	0.0	0.3	0.0	0.0	0.3	0.6
47.5°	0.0	0.3	0.0	0.0	0.6	0.6
50°	0.0	0.3	0.3	0.3	0.6	0.9
52.5°	0.0	0.6	0.3	0.6	0.9	1.3
55°	0.3	0.6	0.6	0.9	1.3	1.6
57.5°	0.3	0.9	0.9	1.3	1.6	1.6
60°	0.6	0.9	1.3	1.3	1.9	1.9
62.5°	0.6	1.3	1.3	1.3	1.9	1.9
65°	0.6	1.3	1.3	1.6	1.9	1.9
67.5°	0.6	1.3	1.3	1.3	1.6	1.9
70°	0.6	1.3	0.9	1.3	1.6	1.6
72.5°	0.6	1.3	0.9	0.9	1.3	1.6
75°	0.6	1.3	0.9	0.9	1.3	1.3
77.5°	0.6	0.9	0.9	0.6	0.9	0.9
80°	0.6	0.9	0.6	0.6	0.9	0.9



TEST NUMBER: P1339832

CATALOG NUMBER: P3A09R159024DE010 E3A301WMH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.6	0.9	0.6	0.3	0.6	0.6
85°	0.6	0.9	0.6	0.3	0.3	0.3
87.5°	0.6	0.9	0.3	0.0	0.0	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)