

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: P1336787

Luminaire Tested: P3A05R209024DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336787
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: P3A05R209024DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

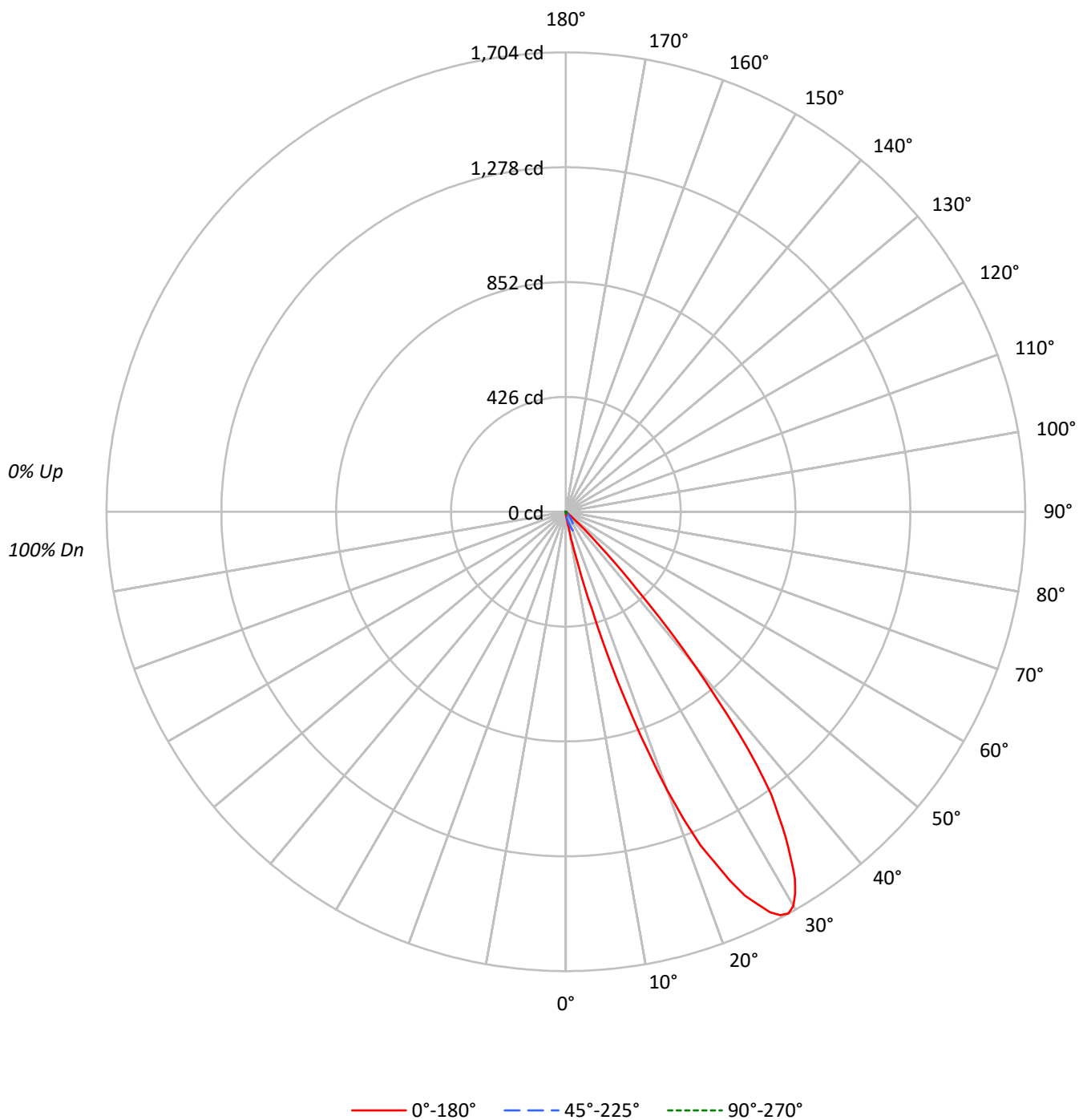
Lumens per Lamp: N/A
Luminaire Lumens: 239.0 lumens
Efficiency: N/A
Efficacy: 33.2 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	80	77	75
4	93	84	78	73	91	83	77	72	81	76	71		79	74	71		77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64		72	68	64		71	67	63	61
6	81	71	64	59	80	70	63	58	68	62	58		67	62	58		65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52		62	56	52		60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43		52	47	43		51	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39		48	43	39		48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1798	1798	1798	1798	1798
5°	4160	3104	1717	1057	902
10°	13093	5411	1403	579	445
15°	84768	9989	1044	204	45
20°	255826	17105	700	0	0
25°	379933	17251	411	0	0
30°	427256	13116	177	0	0
35°	368639	7843	107	0	0
40°	212283	2662	0	0	0
45°	51788	1085	62	0	62
50°	6209	307	68	68	239
55°	841	0	153	153	344
60°	88	0	307	307	482
65°	104	104	467	467	675
70°	128	128	577	577	705
75°	0	169	763	593	763
80°	0	253	884	505	884
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 52098 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	22.1	9.3
20°-30°	96.5	40.4
30°-40°	97.2	40.7
40°-50°	19.5	8.2
50°-60°	1.0	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°	119.8	50.1
0°-40°	217.0	90.8
0°-60°	237.5	99.4
0°-90°	239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	239.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	19	14	8	5	4	3
15°	373	44	5	1	0	146
25°	1570	71	2	0	0	708
35°	1377	29	0	0	0	819
45°	167	4	0	0	0	182
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°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	12.4	12.4	12.1	12.1	11.9	12.1	11.7	11.9	11.9	11.7	10.6
5°	18.9	19.3	19.1	19.1	18.9	19.1	18.6	18.2	17.8	17.8	14.1
7.5°	31.0	30.8	30.4	30.6	29.9	29.5	29.1	28.8	27.5	26.9	18.4
10°	58.8	60.1	59.0	58.8	54.9	54.6	52.0	48.4	45.1	43.4	24.3
12.5°	161.8	168.7	157.9	152.6	149.6	137.9	132.9	120.1	107.8	98.4	30.8
15°	373.4	390.5	368.6	370.1	351.9	318.5	289.3	264.1	234.4	204.5	44.0
17.5°	731.6	717.7	705.8	685.6	648.5	599.5	536.4	472.5	417.2	359.3	61.4
20°	1096.3	1083.9	1056.8	1012.8	965.5	892.9	817.9	721.8	628.8	541.6	73.3
21°	1221.8	1217.7	1173.3	1146.2	1073.3	1003.9	917.4	814.6	709.9	606.7	75.2
22°	1333.9	1309.2	1285.4	1245.3	1172.8	1097.4	1001.1	892.9	779.3	664.6	75.5
23°	1411.6	1400.3	1377.7	1332.4	1260.4	1171.7	1070.3	957.1	837.4	705.6	74.8
24°	1497.4	1483.1	1450.2	1397.3	1324.6	1237.0	1121.2	1008.9	878.8	740.0	73.1
25°	1570.3	1547.9	1508.9	1451.9	1372.5	1282.1	1165.7	1042.3	907.6	763.2	71.3
26°	1617.5	1605.4	1555.3	1493.3	1408.3	1315.1	1196.2	1067.9	926.3	773.9	68.5
27°	1666.8	1644.4	1595.2	1523.9	1431.7	1336.5	1213.6	1080.2	932.8	774.3	65.0
28°	1695.0	1670.7	1614.9	1539.9	1446.9	1348.5	1223.6	1084.1	931.5	767.6	60.9
29°	1703.8	1673.3	1618.9	1542.5	1450.6	1349.3	1222.1	1078.5	920.0	751.1	56.2
30°	1687.4	1656.1	1604.5	1530.2	1438.9	1338.5	1208.0	1059.9	899.6	727.5	51.8
31°	1651.4	1624.9	1575.1	1500.5	1412.9	1313.1	1176.1	1029.3	864.9	695.8	46.8
32°	1603.9	1577.9	1528.9	1461.4	1372.3	1271.7	1132.5	981.6	824.2	648.5	41.8
33°	1532.6	1517.6	1473.6	1409.2	1320.1	1212.5	1074.0	924.6	766.1	596.1	37.5
34°	1460.3	1441.5	1410.7	1340.2	1244.4	1137.1	997.6	845.9	695.2	537.3	33.4
35°	1377.1	1365.8	1317.5	1261.1	1164.8	1055.1	916.5	769.3	612.5	471.8	29.3
36°	1296.4	1279.1	1224.0	1164.4	1070.9	952.3	815.5	677.2	541.2	410.5	24.9
37°	1179.3	1152.9	1113.6	1050.8	941.5	840.4	715.5	587.2	453.4	344.1	20.2
38°	1041.6	1029.3	974.9	911.6	821.1	725.3	601.7	492.9	374.0	287.3	15.4
39°	879.2	879.0	827.0	781.2	692.8	606.5	495.0	400.1	308.8	231.4	11.9
40°	741.6	716.0	683.9	626.4	558.6	485.3	387.7	313.1	239.6	186.5	9.3
42.5°	388.8	386.6	367.7	324.6	286.6	243.5	193.6	161.3	126.2	102.8	5.9
45°	167.0	168.0	155.0	148.5	133.8	115.8	97.8	81.5	69.8	56.6	3.5
47.5°	42.3	40.5	40.1	41.6	41.6	40.3	36.2	34.0	31.4	28.8	2.0
50°	18.2	17.8	17.3	17.3	16.3	15.6	14.5	13.2	12.1	10.8	0.9
52.5°	6.7	6.9	7.2	6.9	6.9	6.7	6.7	6.5	5.9	5.2	0.4
55°	2.2	2.2	2.2	2.4	2.4	2.6	2.6	2.6	2.6	2.4	0.0
57.5°	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.9	0.9	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°	8.2	8.2	8.2	8.2	8.2	8.2
2.5°	9.5	8.5	7.2	6.1	5.9	5.6
5°	10.6	7.8	5.9	4.8	4.3	4.1
7.5°	11.5	7.2	4.8	3.5	3.0	2.8
10°	11.9	6.3	3.9	2.6	2.0	2.0
12.5°	12.1	5.4	2.8	1.7	1.1	1.1
15°	11.9	4.6	2.2	0.9	0.2	0.2
17.5°	10.8	3.7	1.3	0.2	0.0	0.0
20°	9.3	3.0	0.9	0.0	0.0	0.0
21°	8.9	2.6	0.7	0.0	0.0	0.0
22°	8.2	2.4	0.4	0.0	0.0	0.0
23°	7.6	2.2	0.4	0.0	0.0	0.0
24°	6.9	2.0	0.2	0.0	0.0	0.0
25°	6.5	1.7	0.2	0.0	0.0	0.0
26°	6.1	1.5	0.2	0.0	0.0	0.0
27°	5.4	1.3	0.0	0.0	0.0	0.0
28°	5.0	1.1	0.0	0.0	0.0	0.0
29°	4.3	0.9	0.0	0.0	0.0	0.0
30°	3.7	0.7	0.0	0.0	0.0	0.0
31°	3.0	0.7	0.0	0.0	0.0	0.0
32°	2.6	0.4	0.0	0.0	0.0	0.0
33°	2.2	0.4	0.0	0.0	0.0	0.0
34°	2.0	0.4	0.0	0.0	0.0	0.0
35°	1.7	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.2	0.0	0.0	0.0	0.0
37°	1.1	0.2	0.0	0.0	0.0	0.0
38°	0.9	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	0.4
50°	0.0	0.2	0.2	0.2	0.4	0.7
52.5°	0.0	0.4	0.2	0.2	0.7	0.7
55°	0.2	0.4	0.2	0.4	0.9	0.9
57.5°	0.2	0.4	0.4	0.7	0.9	1.1
60°	0.4	0.7	0.7	0.7	1.1	1.1
62.5°	0.4	0.7	0.9	0.9	1.1	1.3
65°	0.4	0.9	0.9	0.9	1.1	1.3
67.5°	0.7	0.9	0.9	0.9	1.1	1.3
70°	0.7	0.9	0.9	0.9	1.1	1.1
72.5°	0.7	0.9	0.7	0.9	0.9	1.1
75°	0.7	0.9	0.7	0.7	0.9	0.9
77.5°	0.4	0.7	0.7	0.4	0.7	0.7
80°	0.4	0.7	0.4	0.4	0.7	0.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.7	0.4	0.2	0.4	0.4
85°	0.4	0.7	0.4	0.2	0.2	0.2
87.5°	0.4	0.7	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)