

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: P1334405

Luminaire Tested: P3A02R209727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334405
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: P3A02R209727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

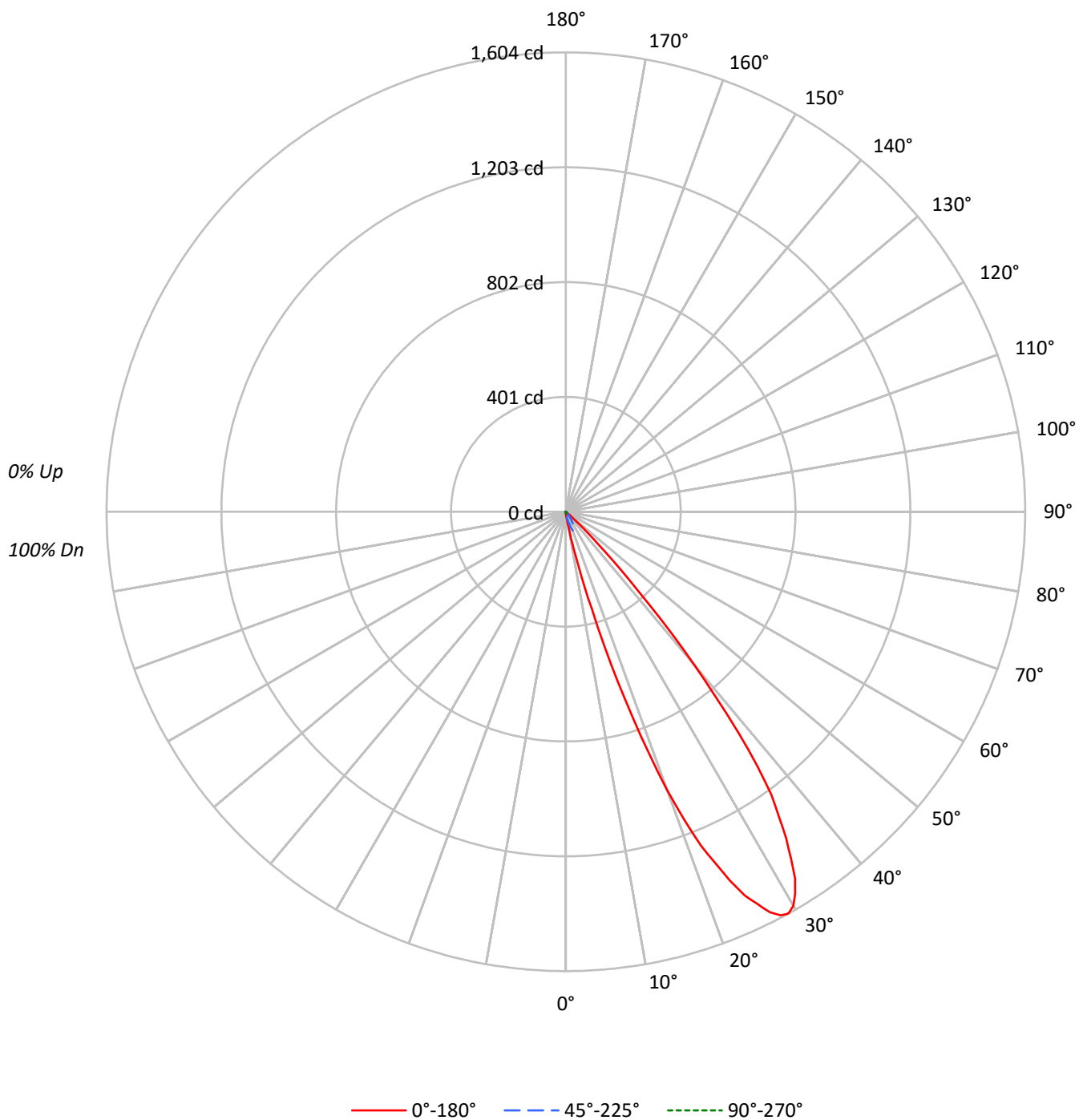
Lumens per Lamp: N/A
Luminaire Lumens: 225.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1334405

CATALOG NUMBER: P3A02R209727DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1334405

CATALOG NUMBER: P3A02R209727DE010 E3CA301MW

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	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°	1710	1710	1710	1710	1710
5°	3918	2928	1607	991	858
10°	12313	5099	1314	534	401
15°	79796	9398	976	182	45
20°	240844	16101	677	0	0
25°	357674	16259	387	0	0
30°	402214	12356	152	0	0
35°	347036	7388	107	0	0
40°	199832	2519	0	0	0
45°	48749	1023	62	0	62
50°	5833	273	68	68	205
55°	765	0	153	153	306
60°	88	0	263	263	439
65°	104	104	415	415	623
70°	128	128	513	513	641
75°	0	169	678	508	678
80°	0	253	758	505	758
85°	0	503	1510	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 49059 cd/sqm

TEST NUMBER: P1334405

CATALOG NUMBER: P3A02R209727DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	20.8	9.3
20°-30°	90.9	40.4
30°-40°	91.5	40.7
40°-50°	18.4	8.2
50°-60°	0.9	0.4
60°-70°	0.6	0.3
70°-80°	0.5	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°	112.8	50.1
0°-40°	204.3	90.8
0°-60°	223.6	99.4
0°-90°	225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	225.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	18	13	7	4	4	3
15°	352	41	4	1	0	138
25°	1478	67	2	0	0	667
35°	1296	28	0	0	0	771
45°	157	3	0	0	0	171
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	

TEST NUMBER: P1334405

CATALOG NUMBER: P3A02R209727DE010 E3CA301MW

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°	11.6	11.6	11.4	11.4	11.2	11.4	11.0	11.2	11.2	11.0	10.0
5°	17.8	18.2	18.0	18.0	17.8	18.0	17.6	17.1	16.7	16.7	13.3
7.5°	29.2	29.0	28.6	28.8	28.2	27.8	27.4	27.1	25.9	25.3	17.4
10°	55.3	56.5	55.5	55.3	51.6	51.4	49.0	45.5	42.5	40.8	22.9
12.5°	152.3	158.8	148.6	143.7	140.8	129.8	125.1	113.1	101.5	92.7	29.0
15°	351.5	367.6	347.0	348.4	331.3	299.9	272.3	248.6	220.7	192.5	41.4
17.5°	688.7	675.7	664.4	645.5	610.5	564.4	505.0	444.8	392.7	338.2	57.8
20°	1032.1	1020.4	994.9	953.5	909.0	840.6	770.0	679.5	592.0	509.9	69.0
21°	1150.3	1146.4	1104.5	1079.0	1010.4	945.1	863.7	766.9	668.3	571.2	70.8
22°	1255.8	1232.5	1210.1	1172.3	1104.1	1033.1	942.5	840.6	733.6	625.7	71.0
23°	1328.9	1318.3	1297.0	1254.4	1186.6	1103.1	1007.6	901.0	788.3	664.2	70.4
24°	1409.7	1396.2	1365.2	1315.4	1247.0	1164.6	1055.5	949.8	827.3	696.7	68.8
25°	1478.3	1457.3	1420.5	1366.8	1292.1	1207.0	1097.4	981.2	854.5	718.5	67.2
26°	1522.8	1511.4	1464.2	1405.8	1325.8	1238.0	1126.2	1005.3	872.0	728.5	64.5
27°	1569.1	1548.1	1501.8	1434.6	1347.9	1258.2	1142.5	1017.0	878.2	728.9	61.2
28°	1595.7	1572.8	1520.3	1449.7	1362.1	1269.5	1151.9	1020.6	876.9	722.6	57.4
29°	1604.0	1575.3	1524.0	1452.2	1365.6	1270.3	1150.5	1015.3	866.1	707.1	52.9
30°	1588.5	1559.1	1510.5	1440.5	1354.6	1260.1	1137.2	997.8	846.9	684.9	48.8
31°	1554.6	1529.7	1482.8	1412.6	1330.1	1236.2	1107.2	969.0	814.3	655.0	44.1
32°	1509.9	1485.4	1439.3	1375.8	1291.9	1197.2	1066.2	924.1	775.9	610.5	39.4
33°	1442.8	1428.7	1387.3	1326.6	1242.7	1141.5	1011.0	870.4	721.2	561.1	35.3
34°	1374.8	1357.0	1328.1	1261.7	1171.5	1070.4	939.2	796.3	654.4	505.8	31.4
35°	1296.4	1285.8	1240.3	1187.2	1096.6	993.3	862.9	724.2	576.7	444.2	27.6
36°	1220.5	1204.2	1152.3	1096.2	1008.2	896.5	767.7	637.5	509.5	386.4	23.5
37°	1110.3	1085.4	1048.4	989.2	886.3	791.2	673.6	552.8	426.8	324.0	19.0
38°	980.6	969.0	917.8	858.2	773.0	682.8	566.5	464.0	352.1	270.5	14.5
39°	827.7	827.5	778.5	735.5	652.2	570.9	466.0	376.6	290.7	217.8	11.2
40°	698.1	674.0	643.8	589.7	525.8	456.8	365.0	294.8	225.6	175.6	8.8
42.5°	366.0	364.0	346.2	305.6	269.9	229.2	182.3	151.9	118.8	96.8	5.5
45°	157.2	158.2	146.0	139.8	125.9	109.0	92.1	76.8	65.7	53.3	3.3
47.5°	39.8	38.2	37.8	39.2	39.2	38.0	34.1	32.0	29.6	27.1	1.8
50°	17.1	16.7	16.3	16.3	15.3	14.7	13.7	12.5	11.4	10.2	0.8
52.5°	6.3	6.5	6.7	6.5	6.5	6.3	6.3	6.1	5.5	4.9	0.4
55°	2.0	2.0	2.0	2.2	2.2	2.4	2.4	2.4	2.4	2.2	0.0
57.5°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	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



TEST NUMBER: P1334405

CATALOG NUMBER: P3A02R209727DE010 E3CA301MW

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

TEST NUMBER: P1334405

CATALOG NUMBER: P3A02R209727DE010 E3CA301MW

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°	9.0	8.0	6.7	5.7	5.5	5.3
5°	10.0	7.3	5.5	4.5	4.1	3.9
7.5°	10.8	6.7	4.5	3.3	2.9	2.7
10°	11.2	5.9	3.7	2.4	1.8	1.8
12.5°	11.4	5.1	2.7	1.6	1.0	1.0
15°	11.2	4.3	2.0	0.8	0.2	0.2
17.5°	10.2	3.5	1.2	0.2	0.0	0.0
20°	8.8	2.9	0.8	0.0	0.0	0.0
21°	8.4	2.4	0.6	0.0	0.0	0.0
22°	7.8	2.2	0.4	0.0	0.0	0.0
23°	7.1	2.0	0.4	0.0	0.0	0.0
24°	6.5	1.8	0.2	0.0	0.0	0.0
25°	6.1	1.6	0.2	0.0	0.0	0.0
26°	5.7	1.4	0.2	0.0	0.0	0.0
27°	5.1	1.2	0.0	0.0	0.0	0.0
28°	4.7	1.0	0.0	0.0	0.0	0.0
29°	4.1	0.8	0.0	0.0	0.0	0.0
30°	3.5	0.6	0.0	0.0	0.0	0.0
31°	2.9	0.6	0.0	0.0	0.0	0.0
32°	2.4	0.4	0.0	0.0	0.0	0.0
33°	2.0	0.4	0.0	0.0	0.0	0.0
34°	1.8	0.4	0.0	0.0	0.0	0.0
35°	1.6	0.4	0.0	0.0	0.0	0.0
36°	1.2	0.2	0.0	0.0	0.0	0.0
37°	1.0	0.2	0.0	0.0	0.0	0.0
38°	0.8	0.2	0.0	0.0	0.0	0.0
39°	0.6	0.0	0.0	0.0	0.0	0.0
40°	0.6	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	0.6
52.5°	0.0	0.4	0.2	0.2	0.6	0.6
55°	0.2	0.4	0.2	0.4	0.8	0.8
57.5°	0.2	0.4	0.4	0.6	0.8	1.0
60°	0.4	0.6	0.6	0.6	1.0	1.0
62.5°	0.4	0.6	0.8	0.8	1.0	1.2
65°	0.4	0.8	0.8	0.8	1.0	1.2
67.5°	0.6	0.8	0.8	0.8	1.0	1.2
70°	0.6	0.8	0.8	0.8	1.0	1.0
72.5°	0.6	0.8	0.6	0.8	0.8	1.0
75°	0.6	0.8	0.6	0.6	0.8	0.8
77.5°	0.4	0.6	0.6	0.4	0.6	0.6
80°	0.4	0.6	0.4	0.4	0.6	0.6



TEST NUMBER: P1334405

CATALOG NUMBER: P3A02R209727DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.4	0.6	0.4	0.2	0.4	0.4
85°	0.4	0.6	0.4	0.2	0.2	0.2
87.5°	0.4	0.6	0.4	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)