

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: P1334469

Luminaire Tested: P3A02R209827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334469
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: P3A02R209827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

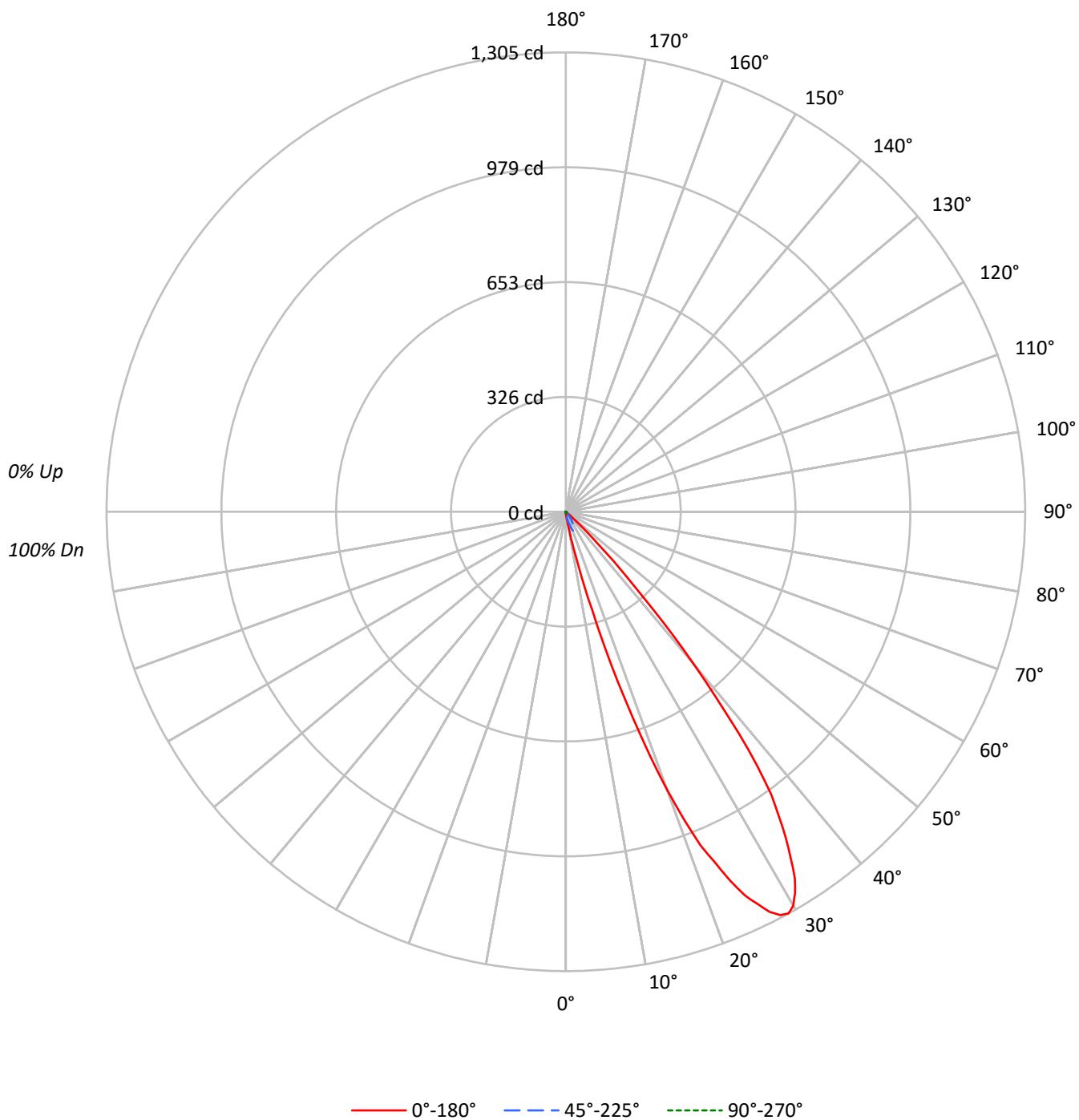
Lumens per Lamp: N/A
Luminaire Lumens: 183.0 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.54 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1334469

CATALOG NUMBER: P3A02R209827DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1334469

CATALOG NUMBER: P3A02R209827DE010 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	75	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°	1381	1381	1381	1381	1381
5°	3170	2377	1321	814	704
10°	10020	4142	1069	445	334
15°	64904	7650	795	159	45
20°	195877	13091	537	0	0
25°	290896	13210	315	0	0
30°	327139	10052	127	0	0
35°	282255	5996	80	0	0
40°	162533	2032	0	0	0
45°	39632	837	62	0	62
50°	4742	239	68	68	171
55°	650	0	115	115	268
60°	88	0	219	219	351
65°	104	104	363	363	519
70°	128	128	449	449	513
75°	0	169	593	424	593
80°	0	253	631	379	631
85°	0	503	1258	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 39911 cd/sqm

TEST NUMBER: P1334469

CATALOG NUMBER: P3A02R209827DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.5
10°-20°	17.0	9.3
20°-30°	73.9	40.4
30°-40°	74.4	40.7
40°-50°	14.9	8.2
50°-60°	0.8	0.4
60°-70°	0.5	0.3
70°-80°	0.4	0.2
80°-90°	0.2	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°	91.7	50.1
0°-40°	166.2	90.8
0°-60°	181.9	99.4
0°-90°	183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	183.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	14	11	6	4	3	2
15°	286	34	4	1	0	112
25°	1202	55	1	0	0	542
35°	1054	22	0	0	0	627
45°	128	3	0	0	0	139
55°	2	0	0	0	1	3
65°	0	0	1	1	1	0
75°	0	0	1	0	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1334469

CATALOG NUMBER: P3A02R209827DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
2.5°	9.5	9.5	9.3	9.3	9.1	9.3	9.0	9.1	9.1	9.0	8.1
5°	14.4	14.8	14.6	14.6	14.4	14.6	14.3	13.9	13.6	13.6	10.8
7.5°	23.7	23.6	23.2	23.4	22.9	22.6	22.2	22.1	21.1	20.6	14.1
10°	45.0	46.0	45.2	45.0	42.0	41.8	39.8	37.0	34.5	33.2	18.6
12.5°	123.9	129.2	120.9	116.9	114.6	105.6	101.8	92.0	82.5	75.4	23.6
15°	285.9	299.0	282.2	283.4	269.5	243.9	221.5	202.2	179.5	156.6	33.7
17.5°	560.2	549.5	540.4	525.0	496.6	459.1	410.7	361.8	319.4	275.1	47.0
20°	839.4	830.0	809.2	775.5	739.3	683.7	626.2	552.7	481.5	414.7	56.1
21°	935.5	932.4	898.4	877.6	821.8	768.7	702.4	623.8	543.6	464.5	57.6
22°	1021.4	1002.5	984.2	953.5	898.0	840.2	766.5	683.7	596.7	508.9	57.8
23°	1080.8	1072.2	1054.9	1020.2	965.1	897.2	819.5	732.8	641.2	540.2	57.3
24°	1146.6	1135.6	1110.4	1069.9	1014.2	947.2	858.5	772.5	672.9	566.6	56.0
25°	1202.3	1185.2	1155.4	1111.7	1050.9	981.7	892.5	798.1	695.0	584.4	54.6
26°	1238.5	1229.2	1190.9	1143.4	1078.3	1006.9	916.0	817.7	709.3	592.5	52.5
27°	1276.2	1259.1	1221.4	1166.8	1096.3	1023.4	929.2	827.1	714.2	592.9	49.8
28°	1297.8	1279.2	1236.5	1179.1	1107.9	1032.5	936.9	830.1	713.2	587.7	46.7
29°	1304.6	1281.2	1239.5	1181.1	1110.7	1033.2	935.7	825.8	704.4	575.1	43.0
30°	1292.0	1268.1	1228.6	1171.6	1101.7	1024.9	924.9	811.5	688.8	557.0	39.7
31°	1264.4	1244.2	1206.0	1148.9	1081.8	1005.4	900.5	788.1	662.3	532.8	35.9
32°	1228.1	1208.2	1170.6	1119.0	1050.8	973.7	867.1	751.6	631.1	496.6	32.0
33°	1173.5	1162.0	1128.3	1079.0	1010.8	928.4	822.3	707.9	586.6	456.4	28.7
34°	1118.2	1103.7	1080.2	1026.2	952.8	870.6	763.9	647.7	532.3	411.4	25.6
35°	1054.4	1045.8	1008.8	965.6	891.9	807.9	701.8	589.1	469.0	361.3	22.4
36°	992.7	979.4	937.2	891.6	820.0	729.2	624.4	518.5	414.4	314.3	19.1
37°	903.0	882.8	852.7	804.6	720.9	643.5	547.9	449.6	347.2	263.5	15.4
38°	797.6	788.1	746.4	698.0	628.7	555.4	460.7	377.4	286.4	220.0	11.8
39°	673.2	673.1	633.2	598.2	530.4	464.4	379.0	306.3	236.4	177.1	9.1
40°	567.8	548.2	523.6	479.6	427.7	371.6	296.9	239.7	183.5	142.8	7.1
42.5°	297.7	296.0	281.6	248.5	219.5	186.4	148.3	123.5	96.6	78.7	4.5
45°	127.8	128.7	118.7	113.7	102.4	88.7	74.9	62.4	53.5	43.3	2.7
47.5°	32.4	31.0	30.7	31.9	31.9	30.9	27.7	26.1	24.1	22.1	1.5
50°	13.9	13.6	13.3	13.3	12.5	12.0	11.1	10.1	9.3	8.3	0.7
52.5°	5.1	5.3	5.5	5.3	5.3	5.1	5.1	5.0	4.5	4.0	0.3
55°	1.7	1.7	1.7	1.8	1.8	2.0	2.0	2.0	2.0	1.8	0.0
57.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	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°	6.3	6.3	6.3	6.3	6.3	6.3
2.5°	7.3	6.5	5.5	4.6	4.5	4.3
5°	8.1	6.0	4.5	3.7	3.3	3.2
7.5°	8.8	5.5	3.7	2.7	2.3	2.2
10°	9.1	4.8	3.0	2.0	1.5	1.5
12.5°	9.3	4.2	2.2	1.3	0.8	0.8
15°	9.1	3.5	1.7	0.7	0.2	0.2
17.5°	8.3	2.8	1.0	0.2	0.0	0.0
20°	7.1	2.3	0.7	0.0	0.0	0.0
21°	6.8	2.0	0.5	0.0	0.0	0.0
22°	6.3	1.8	0.3	0.0	0.0	0.0
23°	5.8	1.7	0.3	0.0	0.0	0.0
24°	5.3	1.5	0.2	0.0	0.0	0.0
25°	5.0	1.3	0.2	0.0	0.0	0.0
26°	4.6	1.2	0.2	0.0	0.0	0.0
27°	4.2	1.0	0.0	0.0	0.0	0.0
28°	3.8	0.8	0.0	0.0	0.0	0.0
29°	3.3	0.7	0.0	0.0	0.0	0.0
30°	2.8	0.5	0.0	0.0	0.0	0.0
31°	2.3	0.5	0.0	0.0	0.0	0.0
32°	2.0	0.3	0.0	0.0	0.0	0.0
33°	1.7	0.3	0.0	0.0	0.0	0.0
34°	1.5	0.3	0.0	0.0	0.0	0.0
35°	1.3	0.3	0.0	0.0	0.0	0.0
36°	1.0	0.2	0.0	0.0	0.0	0.0
37°	0.8	0.2	0.0	0.0	0.0	0.0
38°	0.7	0.2	0.0	0.0	0.0	0.0
39°	0.5	0.0	0.0	0.0	0.0	0.0
40°	0.5	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	0.3
50°	0.0	0.2	0.2	0.2	0.3	0.5
52.5°	0.0	0.3	0.2	0.2	0.5	0.5
55°	0.2	0.3	0.2	0.3	0.7	0.7
57.5°	0.2	0.3	0.3	0.5	0.7	0.8
60°	0.3	0.5	0.5	0.5	0.8	0.8
62.5°	0.3	0.5	0.7	0.7	0.8	1.0
65°	0.3	0.7	0.7	0.7	0.8	1.0
67.5°	0.5	0.7	0.7	0.7	0.8	1.0
70°	0.5	0.7	0.7	0.7	0.8	0.8
72.5°	0.5	0.7	0.5	0.7	0.7	0.8
75°	0.5	0.7	0.5	0.5	0.7	0.7
77.5°	0.3	0.5	0.5	0.3	0.5	0.5
80°	0.3	0.5	0.3	0.3	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.5	0.3	0.2	0.3	0.3
85°	0.3	0.5	0.3	0.2	0.2	0.2
87.5°	0.3	0.5	0.3	0.2	0.0	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)