

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: P1334321

Luminaire Tested: P3A02R209030D2WDE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334321
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: P3A02R209030D2WDE010 E3A301GPH
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

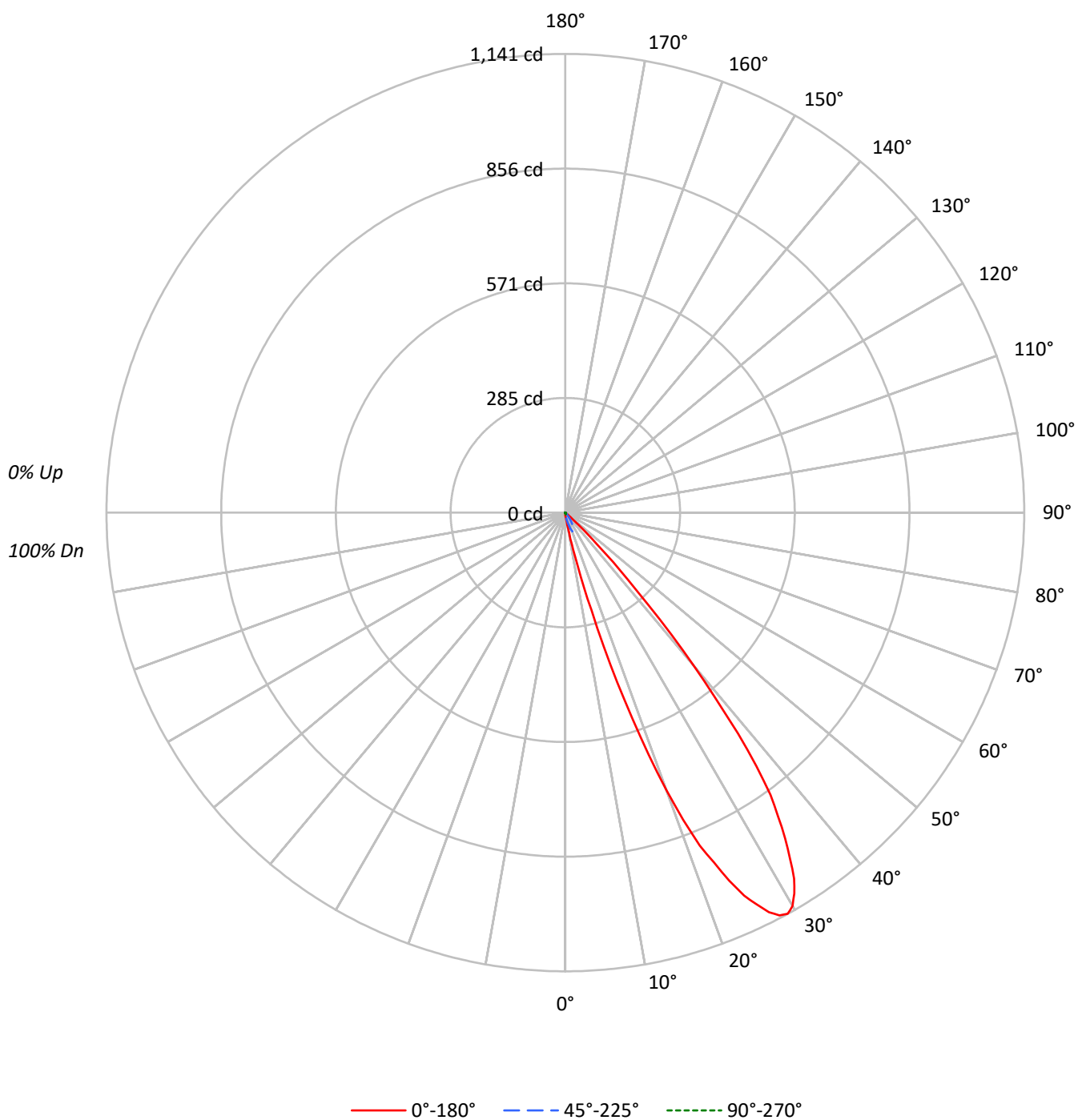
Lumens per Lamp: N/A
Luminaire Lumens: 159.9 lumens
Efficiency: N/A
Efficacy: 22.2 lumens/watt
Spacing Criteria (0/90/45): 2.3 / 0.53 / 1.19
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1334321

CATALOG NUMBER: P3A02R209030D2WDE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1334321

CATALOG NUMBER: P3A02R209030D2WDE010 E3A301GPH

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
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	58	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°	1206	1206	1206	1206	1206
5°	2773	2069	1145	704	616
10°	8751	3629	935	379	289
15°	56754	6697	681	136	23
20°	171258	11458	467	0	0
25°	254337	11565	290	0	0
30°	286019	8786	101	0	0
35°	246786	5247	80	0	0
40°	142095	1775	0	0	0
45°	34670	713	31	0	31
50°	4162	205	34	34	136
55°	573	0	115	115	229
60°	44	0	175	175	307
65°	52	52	311	311	467
70°	64	64	385	385	449
75°	0	85	508	339	508
80°	0	126	505	379	505
85°	0	252	1006	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 45°

Luminance: 34887 cd/sqm

TEST NUMBER: P1334321

CATALOG NUMBER: P3A02R209030D2WDE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.5
10°-20°	14.8	9.3
20°-30°	64.6	40.4
30°-40°	65.1	40.7
40°-50°	13.0	8.2
50°-60°	0.6	0.4
60°-70°	0.4	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°	80.2	50.1
0°-40°	145.3	90.8
0°-60°	159.0	99.4
0°-90°	159.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	159.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	13	9	5	3	3	2
15°	250	30	3	1	0	98
25°	1051	48	1	0	0	474
35°	922	20	0	0	0	549
45°	112	2	0	0	0	122
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: P1334321

CATALOG NUMBER: P3A02R209030D2WDE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
2.5°	8.3	8.3	8.1	8.1	8.0	8.1	7.8	8.0	8.0	7.8	7.1
5°	12.6	12.9	12.8	12.8	12.6	12.8	12.5	12.2	11.9	11.9	9.4
7.5°	20.8	20.6	20.3	20.5	20.0	19.7	19.5	19.3	18.4	18.0	12.3
10°	39.3	40.2	39.5	39.3	36.7	36.6	34.8	32.4	30.2	29.0	16.3
12.5°	108.3	112.9	105.7	102.2	100.2	92.3	89.0	80.4	72.1	65.9	20.6
15°	250.0	261.4	246.8	247.8	235.6	213.2	193.6	176.8	156.9	136.9	29.5
17.5°	489.8	480.5	472.5	459.0	434.2	401.4	359.1	316.3	279.3	240.5	41.1
20°	733.9	725.6	707.5	678.0	646.4	597.8	547.5	483.2	421.0	362.6	49.1
21°	818.0	815.2	785.4	767.3	718.5	672.1	614.2	545.4	475.2	406.2	50.4
22°	893.0	876.5	860.5	833.6	785.2	734.6	670.2	597.8	521.7	444.9	50.5
23°	945.0	937.4	922.3	892.0	843.8	784.4	716.5	640.7	560.6	472.3	50.1
24°	1002.5	992.9	970.8	935.4	886.8	828.1	750.6	675.4	588.3	495.4	48.9
25°	1051.2	1036.3	1010.2	972.0	918.8	858.3	780.4	697.8	607.6	511.0	47.8
26°	1082.9	1074.7	1041.2	999.7	942.8	880.4	800.8	714.9	620.1	518.1	45.9
27°	1115.8	1100.9	1067.9	1020.2	958.5	894.8	812.4	723.2	624.5	518.4	43.5
28°	1134.7	1118.4	1081.1	1030.9	968.6	902.7	819.1	725.8	623.6	513.9	40.8
29°	1140.7	1120.2	1083.7	1032.7	971.1	903.3	818.1	722.0	615.9	502.8	37.6
30°	1129.6	1108.7	1074.2	1024.4	963.3	896.1	808.7	709.5	602.3	487.0	34.7
31°	1105.5	1087.8	1054.4	1004.5	945.8	879.1	787.3	689.1	579.0	465.8	31.4
32°	1073.7	1056.3	1023.5	978.4	918.7	851.4	758.2	657.1	551.7	434.2	28.0
33°	1026.0	1016.0	986.5	943.4	883.7	811.7	719.0	619.0	512.8	399.0	25.1
34°	977.6	965.0	944.4	897.2	833.1	761.2	667.9	566.3	465.4	359.7	22.4
35°	921.9	914.3	882.0	844.2	779.8	706.3	613.6	515.0	410.1	315.9	19.6
36°	867.9	856.3	819.4	779.5	716.9	637.5	545.9	453.3	362.3	274.8	16.7
37°	789.5	771.8	745.5	703.4	630.3	562.6	479.0	393.1	303.5	230.4	13.5
38°	697.3	689.1	652.6	610.2	549.7	485.6	402.8	329.9	250.4	192.3	10.3
39°	588.6	588.5	553.6	523.0	463.8	406.0	331.4	267.8	206.7	154.9	8.0
40°	496.4	479.3	457.8	419.4	373.9	324.9	259.5	209.6	160.4	124.8	6.2
42.5°	260.3	258.8	246.2	217.3	191.9	163.0	129.6	108.0	84.5	68.8	3.9
45°	111.8	112.5	103.8	99.4	89.6	77.5	65.5	54.6	46.7	37.9	2.3
47.5°	28.3	27.1	26.9	27.9	27.9	27.0	24.2	22.8	21.0	19.3	1.3
50°	12.2	11.9	11.6	11.6	10.9	10.5	9.7	8.9	8.1	7.3	0.6
52.5°	4.5	4.6	4.8	4.6	4.6	4.5	4.5	4.4	3.9	3.5	0.3
55°	1.5	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.6	0.0
57.5°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
62.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
65°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
67.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1



TEST NUMBER: P1334321

CATALOG NUMBER: P3A02R209030D2WDE010 E3A301GPH

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	0.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
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: P1334321

CATALOG NUMBER: P3A02R209030D2WDE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	5.5	5.5	5.5	5.5	5.5	5.5
2.5°	6.4	5.7	4.8	4.1	3.9	3.8
5°	7.1	5.2	3.9	3.2	2.9	2.8
7.5°	7.7	4.8	3.2	2.3	2.0	1.9
10°	8.0	4.2	2.6	1.7	1.3	1.3
12.5°	8.1	3.6	1.9	1.2	0.7	0.7
15°	8.0	3.0	1.5	0.6	0.1	0.1
17.5°	7.3	2.5	0.9	0.1	0.0	0.0
20°	6.2	2.0	0.6	0.0	0.0	0.0
21°	6.0	1.7	0.4	0.0	0.0	0.0
22°	5.5	1.6	0.3	0.0	0.0	0.0
23°	5.1	1.5	0.3	0.0	0.0	0.0
24°	4.6	1.3	0.1	0.0	0.0	0.0
25°	4.4	1.2	0.1	0.0	0.0	0.0
26°	4.1	1.0	0.1	0.0	0.0	0.0
27°	3.6	0.9	0.0	0.0	0.0	0.0
28°	3.3	0.7	0.0	0.0	0.0	0.0
29°	2.9	0.6	0.0	0.0	0.0	0.0
30°	2.5	0.4	0.0	0.0	0.0	0.0
31°	2.0	0.4	0.0	0.0	0.0	0.0
32°	1.7	0.3	0.0	0.0	0.0	0.0
33°	1.5	0.3	0.0	0.0	0.0	0.0
34°	1.3	0.3	0.0	0.0	0.0	0.0
35°	1.2	0.3	0.0	0.0	0.0	0.0
36°	0.9	0.1	0.0	0.0	0.0	0.0
37°	0.7	0.1	0.0	0.0	0.0	0.0
38°	0.6	0.1	0.0	0.0	0.0	0.0
39°	0.4	0.0	0.0	0.0	0.0	0.0
40°	0.4	0.0	0.0	0.0	0.0	0.0
42.5°	0.1	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.1	0.0	0.0	0.1	0.1
47.5°	0.0	0.1	0.0	0.0	0.1	0.3
50°	0.0	0.1	0.1	0.1	0.3	0.4
52.5°	0.0	0.3	0.1	0.1	0.4	0.4
55°	0.1	0.3	0.1	0.3	0.6	0.6
57.5°	0.1	0.3	0.3	0.4	0.6	0.7
60°	0.3	0.4	0.4	0.4	0.7	0.7
62.5°	0.3	0.4	0.6	0.6	0.7	0.9
65°	0.3	0.6	0.6	0.6	0.7	0.9
67.5°	0.4	0.6	0.6	0.6	0.7	0.9
70°	0.4	0.6	0.6	0.6	0.7	0.7
72.5°	0.4	0.6	0.4	0.6	0.6	0.7
75°	0.4	0.6	0.4	0.4	0.6	0.6
77.5°	0.3	0.4	0.4	0.3	0.4	0.4
80°	0.3	0.4	0.3	0.3	0.4	0.4



TEST NUMBER: P1334321

CATALOG NUMBER: P3A02R209030D2WDE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.3	0.4	0.3	0.1	0.3	0.3
85°	0.3	0.4	0.3	0.1	0.1	0.1
87.5°	0.3	0.4	0.3	0.1	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)