

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: P1338947

Luminaire Tested: P3A05R409735DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R409735DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

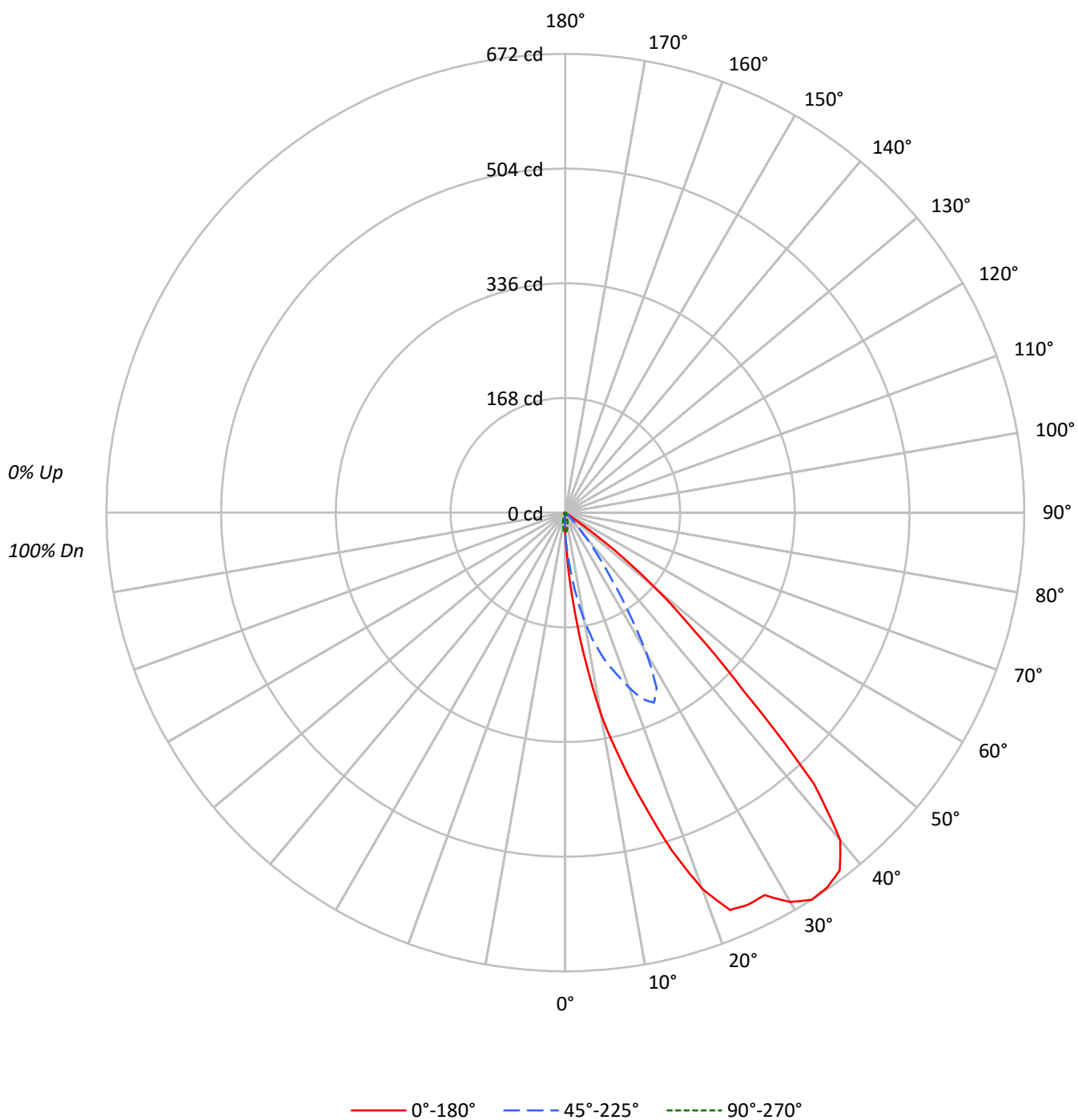
Lumens per Lamp: N/A
Luminaire Lumens: 247.9 lumens
Efficiency: N/A
Efficacy: 34.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1338947

CATALOG NUMBER: P3A05R409735DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1338947

CATALOG NUMBER: P3A05R409735DE010 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	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6425	6425	6425	6425	6425
5°	29012	18512	5767	2223	1607
10°	66554	35760	4052	802	601
15°	99887	50715	2520	431	386
20°	136769	63589	1470	233	303
25°	153299	74303	750	194	242
30°	166760	59984	329	152	253
35°	179220	30704	107	214	348
40°	179279	12252	57	229	429
45°	114461	4093	124	403	589
50°	59427	512	205	512	716
55°	5123	76	229	650	879
60°	175	88	263	746	1009
65°	208	104	415	778	1090
70°	128	128	513	833	1090
75°	169	169	508	847	1271
80°	253	253	758	758	1010
85°	0	503	1510	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 114461 cd/sqm

TEST NUMBER: P1338947

CATALOG NUMBER: P3A05R409735DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	2.3
10°-20°	33.6	13.5
20°-30°	73.5	29.6
30°-40°	83.7	33.8
40°-50°	44.2	17.8
50°-60°	5.2	2.1
60°-70°	0.9	0.4
70°-80°	0.8	0.3
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	45.5
0°-40°	196.5	79.3
0°-60°	245.9	99.2
0°-90°	247.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	247.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	132	84	26	10	7	18
15°	440	223	11	2	2	130
25°	634	307	3	1	1	292
35°	670	115	0	1	1	415
45°	369	13	0	1	2	298
55°	13	0	1	2	2	42
65°	0	0	1	2	2	0
75°	0	0	1	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1338947

CATALOG NUMBER: P3A05R409735DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
2.5°	65.4	65.4	65.2	63.3	63.1	62.9	59.5	58.7	54.7	52.0	39.6
5°	131.8	128.9	128.7	125.3	119.7	112.1	107.3	99.6	92.0	84.1	48.8
7.5°	210.0	212.5	205.6	202.1	189.5	180.5	166.6	154.5	137.5	121.6	56.4
10°	298.9	294.5	287.6	280.7	267.0	250.9	230.4	208.8	184.2	160.6	60.6
12.5°	368.3	362.6	358.4	349.0	335.6	314.8	290.3	261.4	228.9	194.7	60.4
15°	440.0	434.3	424.9	416.5	396.6	373.3	346.7	308.5	268.7	223.4	56.0
17.5°	518.8	511.4	501.0	488.2	468.9	443.1	409.4	362.8	306.4	246.9	48.0
20°	586.1	581.7	571.2	556.1	537.2	512.1	473.1	421.5	352.8	272.5	38.1
22.5°	630.1	626.1	619.0	605.8	591.5	564.7	529.0	472.5	391.5	295.8	28.9
25°	633.6	632.0	630.1	625.7	617.1	598.0	563.2	502.2	415.6	307.1	21.4
27.5°	631.8	631.1	630.7	628.4	622.7	603.9	568.2	506.6	412.5	289.5	15.7
30°	658.6	656.7	655.6	648.1	633.2	604.1	557.5	482.9	366.6	236.9	11.3
32.5°	672.2	671.8	670.7	663.4	642.4	604.5	539.5	425.7	290.7	171.0	7.8
35°	669.5	667.4	663.6	650.0	620.9	573.3	481.3	340.0	209.8	114.7	5.0
37.5°	660.3	655.4	648.1	623.6	584.8	519.8	390.3	250.3	142.7	74.2	2.9
40°	626.3	619.8	608.3	578.3	527.4	428.4	288.6	169.2	93.7	42.8	0.8
42.5°	538.5	530.1	521.7	488.2	429.9	319.4	189.9	104.6	53.4	23.5	0.2
45°	369.1	358.6	347.1	322.8	276.1	193.5	113.0	58.9	27.7	13.2	0.2
47.5°	256.3	251.5	231.4	200.4	153.6	102.5	58.5	28.9	14.7	6.1	0.2
50°	174.2	168.7	145.3	115.3	81.7	49.0	26.8	14.5	6.5	1.5	0.2
52.5°	91.4	84.7	69.8	53.2	33.1	20.5	11.7	6.3	1.9	0.2	0.2
55°	13.4	12.4	10.1	8.2	7.3	5.7	3.4	1.5	0.2	0.2	0.4
57.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.4	0.2	0.2	0.2	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.6
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
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: P1338947

CATALOG NUMBER: P3A05R409735DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	29.3	29.3	29.3	29.3	29.3
2.5°	28.9	21.4	16.6	14.3	14.0
5°	26.2	15.3	10.1	7.8	7.3
7.5°	22.2	10.7	5.9	4.2	4.0
10°	18.2	7.3	3.6	2.9	2.7
12.5°	14.5	4.8	2.5	2.3	2.1
15°	11.1	3.1	1.9	1.7	1.7
17.5°	8.4	2.1	1.5	1.5	1.5
20°	6.3	1.5	1.0	1.3	1.3
22.5°	4.4	1.0	0.8	1.0	1.0
25°	3.1	0.8	0.8	1.0	1.0
27.5°	2.1	0.6	0.6	0.8	1.0
30°	1.3	0.4	0.6	0.8	1.0
32.5°	0.6	0.4	0.6	1.0	1.0
35°	0.4	0.6	0.8	1.0	1.3
37.5°	0.2	0.6	0.8	1.3	1.3
40°	0.2	0.6	0.8	1.3	1.5
42.5°	0.4	0.8	1.0	1.5	1.7
45°	0.4	0.8	1.3	1.7	1.9
47.5°	0.4	0.8	1.5	1.9	1.9
50°	0.6	1.0	1.5	1.9	2.1
52.5°	0.6	1.0	1.5	2.1	2.3
55°	0.6	1.0	1.7	2.1	2.3
57.5°	0.6	1.3	1.7	2.1	2.3
60°	0.6	1.0	1.7	2.1	2.3
62.5°	0.8	1.0	1.5	2.1	2.1
65°	0.8	1.0	1.5	2.1	2.1
67.5°	0.8	1.0	1.5	1.9	1.9
70°	0.8	1.0	1.3	1.7	1.7
72.5°	0.8	1.0	1.3	1.5	1.7
75°	0.6	0.8	1.0	1.3	1.5
77.5°	0.6	0.8	0.8	1.3	1.3
80°	0.6	0.6	0.6	0.8	0.8
82.5°	0.6	0.6	0.4	0.6	0.6
85°	0.6	0.4	0.4	0.4	0.4
87.5°	0.4	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)