

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: P1335625

Luminaire Tested: P3A02R409027DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335625
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: P3A02R409027DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

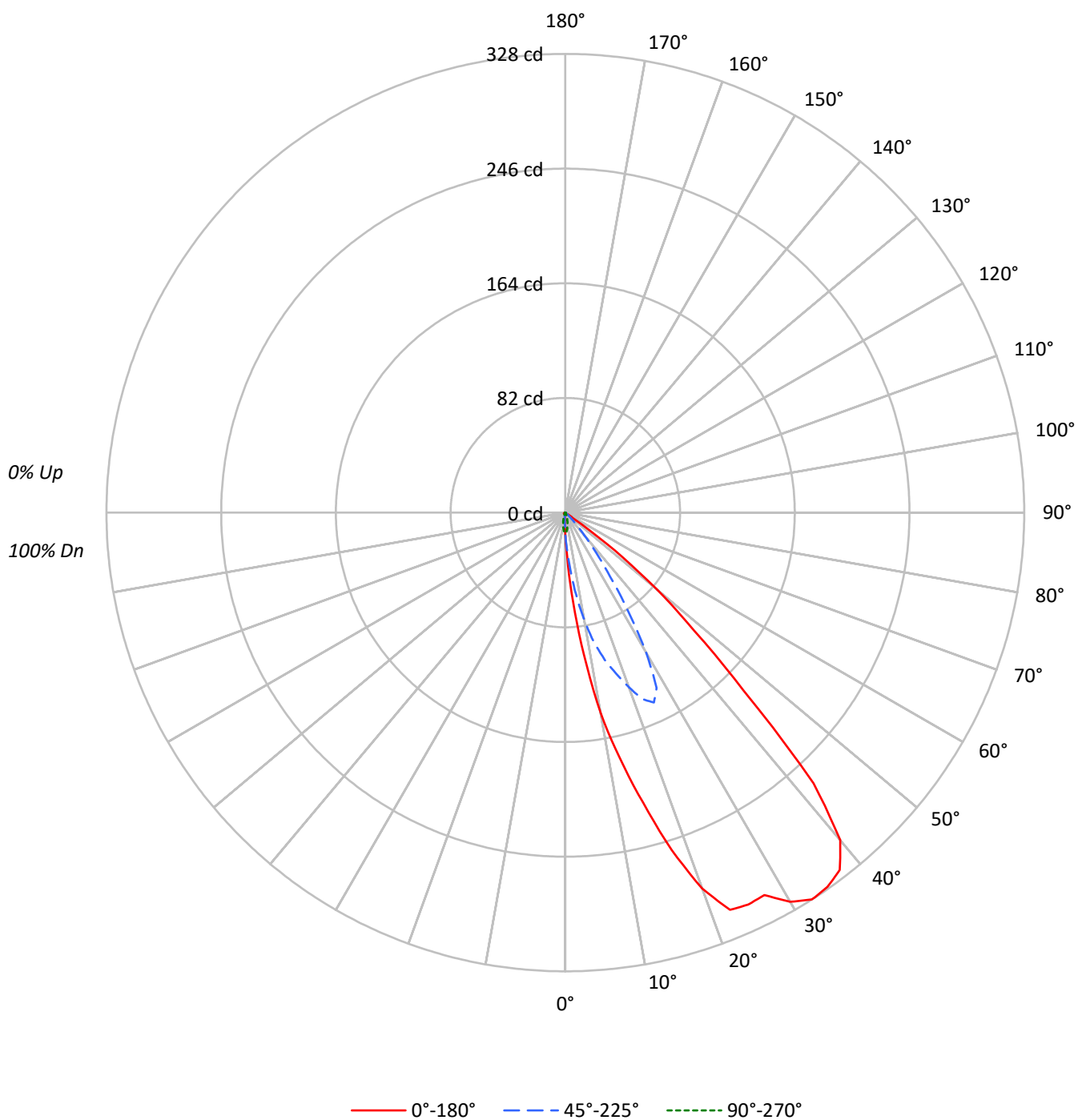
Lumens per Lamp: N/A
Luminaire Lumens: 121.0 lumens
Efficiency: N/A
Efficacy: 33.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1335625

CATALOG NUMBER: P3A02R409027DE010 E3A301GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1335625

CATALOG NUMBER: P3A02R409027DE010 E3A301GPH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3136	3136	3136	3136	3136
5°	14154	9025	2818	1079	792
10°	32464	17435	1982	379	289
15°	48740	24745	1226	204	182
20°	66716	31013	723	117	140
25°	74811	36244	363	97	121
30°	81354	29270	152	76	127
35°	87428	14964	54	107	161
40°	87478	5983	29	115	200
45°	55851	1985	62	186	279
50°	28997	239	102	239	341
55°	2485	38	115	306	421
60°	88	44	132	351	482
65°	104	52	208	363	519
70°	64	64	256	385	513
75°	85	85	254	424	593
80°	126	126	379	379	505
85°	0	252	755	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 55851 cd/sqm

TEST NUMBER: P1335625

CATALOG NUMBER: P3A02R409027DE010 E3A301GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	2.3
10°-20°	16.4	13.5
20°-30°	35.9	29.7
30°-40°	40.9	33.8
40°-50°	21.6	17.8
50°-60°	2.5	2.1
60°-70°	0.4	0.4
70°-80°	0.4	0.3
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°	55.0	45.5
0°-40°	95.9	79.3
0°-60°	120.0	99.2
0°-90°	121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	121.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	64	41	13	5	4	9
15°	215	109	5	1	1	63
25°	309	150	2	0	0	142
35°	327	56	0	0	1	202
45°	180	6	0	1	1	145
55°	6	0	0	1	1	20
65°	0	0	0	1	1	0
75°	0	0	0	0	1	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1335625

CATALOG NUMBER: P3A02R409027DE010 E3A301GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	31.9	31.9	31.8	30.9	30.8	30.7	29.0	28.6	26.7	25.4	19.3
5°	64.3	62.9	62.8	61.2	58.4	54.7	52.4	48.6	44.9	41.0	23.8
7.5°	102.5	103.7	100.3	98.6	92.4	88.1	81.3	75.4	67.1	59.3	27.5
10°	145.8	143.7	140.3	136.9	130.3	122.4	112.4	101.9	89.9	78.3	29.6
12.5°	179.7	176.9	174.9	170.3	163.7	153.6	141.6	127.5	111.7	95.0	29.5
15°	214.7	211.9	207.3	203.2	193.5	182.1	169.1	150.5	131.1	109.0	27.3
17.5°	253.1	249.5	244.4	238.2	228.8	216.2	199.7	177.0	149.5	120.5	23.4
20°	285.9	283.8	278.7	271.3	262.1	249.8	230.8	205.7	172.1	132.9	18.6
22.5°	307.4	305.5	302.0	295.6	288.6	275.5	258.1	230.5	191.0	144.3	14.1
25°	309.2	308.3	307.4	305.3	301.1	291.8	274.8	245.0	202.8	149.8	10.4
27.5°	308.2	307.9	307.7	306.6	303.8	294.6	277.2	247.2	201.3	141.2	7.7
30°	321.3	320.4	319.9	316.2	308.9	294.7	272.0	235.6	178.9	115.6	5.5
32.5°	328.0	327.8	327.3	323.7	313.4	294.9	263.2	207.7	141.8	83.4	3.8
35°	326.6	325.6	323.8	317.1	302.9	279.7	234.8	165.9	102.4	55.9	2.5
37.5°	322.1	319.8	316.2	304.2	285.3	253.6	190.4	122.1	69.6	36.2	1.4
40°	305.6	302.4	296.8	282.2	257.3	209.0	140.8	82.5	45.7	20.9	0.4
42.5°	262.7	258.6	254.5	238.2	209.7	155.9	92.7	51.0	26.1	11.5	0.1
45°	180.1	175.0	169.4	157.5	134.7	94.4	55.1	28.7	13.5	6.4	0.1
47.5°	125.1	122.7	112.9	97.8	75.0	50.0	28.5	14.1	7.2	3.0	0.1
50°	85.0	82.3	70.9	56.2	39.9	23.9	13.1	7.1	3.2	0.7	0.1
52.5°	44.6	41.3	34.1	26.0	16.2	10.0	5.7	3.1	0.9	0.1	0.1
55°	6.5	6.0	4.9	4.0	3.6	2.8	1.6	0.7	0.1	0.1	0.2
57.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.1	0.1	0.1	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
62.5°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2
67.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3
77.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
80°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	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: P1335625

CATALOG NUMBER: P3A02R409027DE010 E3A301GPH

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	14.3	14.3	14.3	14.3	14.3
2.5°	14.1	10.4	8.1	7.0	6.9
5°	12.8	7.5	4.9	3.8	3.6
7.5°	10.8	5.2	2.9	2.0	1.9
10°	8.9	3.6	1.7	1.4	1.3
12.5°	7.1	2.4	1.2	1.1	1.0
15°	5.4	1.5	0.9	0.8	0.8
17.5°	4.1	1.0	0.7	0.7	0.7
20°	3.1	0.7	0.5	0.6	0.6
22.5°	2.1	0.5	0.4	0.5	0.5
25°	1.5	0.4	0.4	0.5	0.5
27.5°	1.0	0.3	0.3	0.4	0.5
30°	0.6	0.2	0.3	0.4	0.5
32.5°	0.3	0.2	0.3	0.5	0.5
35°	0.2	0.3	0.4	0.5	0.6
37.5°	0.1	0.3	0.4	0.6	0.6
40°	0.1	0.3	0.4	0.6	0.7
42.5°	0.2	0.4	0.5	0.7	0.8
45°	0.2	0.4	0.6	0.8	0.9
47.5°	0.2	0.4	0.7	0.9	0.9
50°	0.3	0.5	0.7	0.9	1.0
52.5°	0.3	0.5	0.7	1.0	1.1
55°	0.3	0.5	0.8	1.0	1.1
57.5°	0.3	0.6	0.8	1.0	1.1
60°	0.3	0.5	0.8	1.0	1.1
62.5°	0.4	0.5	0.7	1.0	1.0
65°	0.4	0.5	0.7	1.0	1.0
67.5°	0.4	0.5	0.7	0.9	0.9
70°	0.4	0.5	0.6	0.8	0.8
72.5°	0.4	0.5	0.6	0.7	0.8
75°	0.3	0.4	0.5	0.6	0.7
77.5°	0.3	0.4	0.4	0.6	0.6
80°	0.3	0.3	0.3	0.4	0.4
82.5°	0.3	0.3	0.2	0.3	0.3
85°	0.3	0.2	0.2	0.2	0.2
87.5°	0.2	0.2	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)