

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: P1338915

Luminaire Tested: P3A05R409727DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338915
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: P3A05R409727DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 97CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

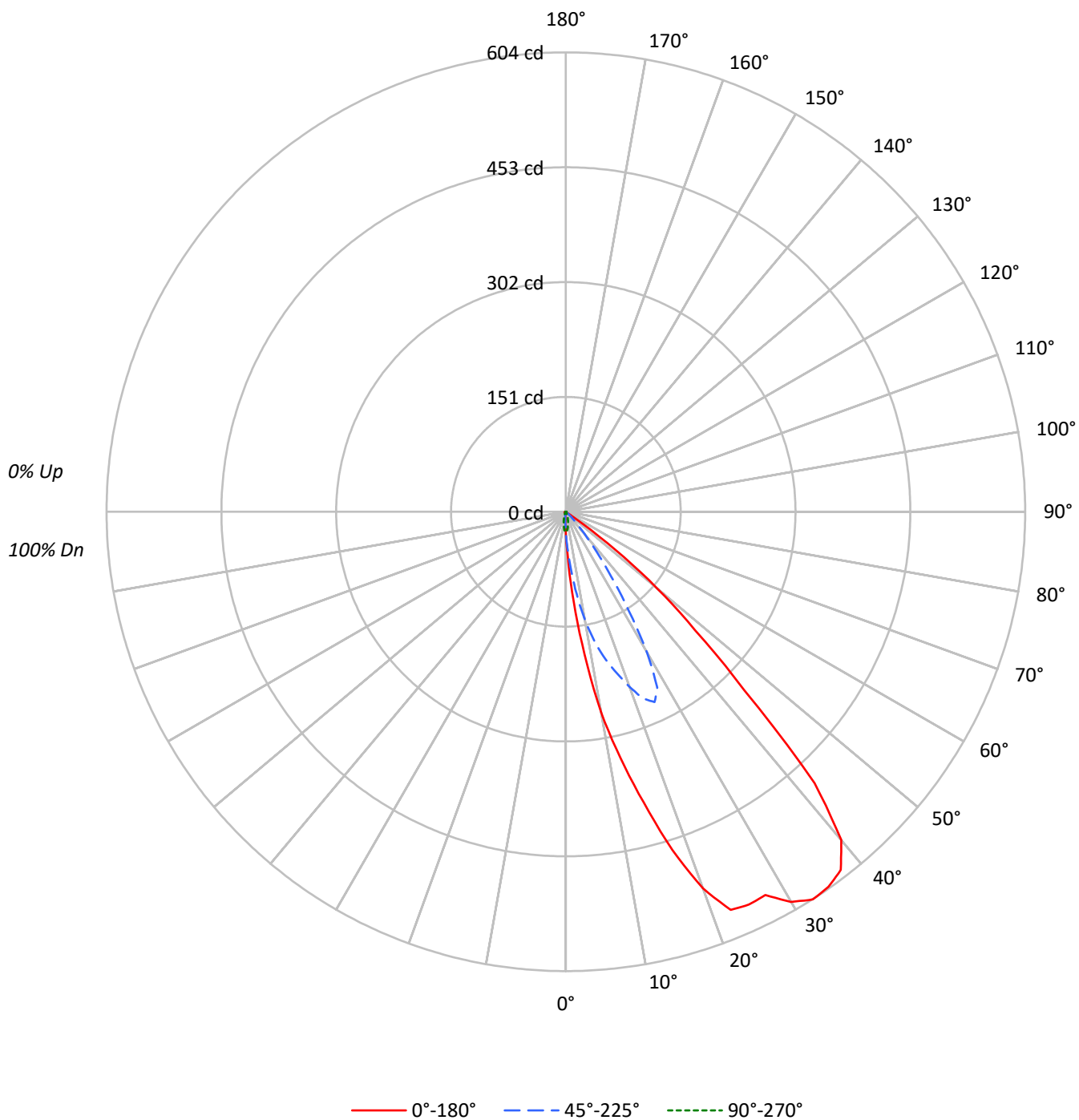
Lumens per Lamp: N/A
Luminaire Lumens: 223.1 lumens
Efficiency: N/A
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	62	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	51	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°	5789	5789	5789	5789	5789
5°	26106	16641	5195	1981	1453
10°	59852	32153	3652	713	557
15°	89808	45608	2270	386	341
20°	122977	57172	1330	210	257
25°	137863	66802	677	194	218
30°	149947	53932	279	152	228
35°	161151	27599	107	214	294
40°	161216	10992	57	229	372
45°	102925	3690	124	341	527
50°	53423	443	205	443	648
55°	4626	76	229	573	803
60°	175	88	263	658	921
65°	208	104	415	675	986
70°	128	128	513	705	962
75°	169	169	508	763	1101
80°	253	253	758	758	1010
85°	0	503	1510	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 102925 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	2.3
10°-20°	30.2	13.5
20°-30°	66.1	29.6
30°-40°	75.3	33.8
40°-50°	39.7	17.8
50°-60°	4.7	2.1
60°-70°	0.9	0.4
70°-80°	0.7	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°	101.4	45.5
0°-40°	176.7	79.2
0°-60°	221.2	99.2
0°-90°	223.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	223.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	26	26	26	26	26	
5°	119	76	24	9	7	16
15°	396	201	10	2	2	117
25°	570	276	3	1	1	263
35°	602	103	0	1	1	373
45°	332	12	0	1	2	268
55°	12	0	1	2	2	37
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4
2.5°	58.8	58.8	58.6	56.9	56.7	56.5	53.5	52.8	49.2	46.7	35.6
5°	118.6	115.9	115.7	112.7	107.6	100.8	96.5	89.5	82.7	75.6	43.9
7.5°	188.9	191.1	184.9	181.7	170.4	162.3	149.8	138.9	123.6	109.3	50.7
10°	268.8	264.8	258.6	252.4	240.1	225.6	207.1	187.7	165.7	144.4	54.5
12.5°	331.2	326.1	322.3	313.8	301.7	283.1	261.0	235.0	205.8	175.1	54.3
15°	395.6	390.5	382.0	374.5	356.6	335.7	311.7	277.4	241.6	200.9	50.3
17.5°	466.5	459.9	450.5	439.0	421.6	398.4	368.1	326.3	275.6	222.0	43.2
20°	527.0	523.0	513.6	500.0	483.1	460.4	425.4	379.0	317.2	245.0	34.3
22.5°	566.6	563.0	556.6	544.7	531.9	507.8	475.7	424.8	352.1	265.9	26.0
25°	569.8	568.3	566.6	562.6	554.9	537.7	506.4	451.6	373.7	276.1	19.2
27.5°	568.1	567.5	567.1	565.0	560.0	543.0	511.0	455.5	370.9	260.3	14.1
30°	592.2	590.5	589.6	582.8	569.4	543.2	501.3	434.2	329.6	213.0	10.2
32.5°	604.4	604.1	603.1	596.5	577.7	543.6	485.1	382.8	261.4	153.8	7.0
35°	602.0	600.1	596.7	584.5	558.3	515.5	432.7	305.7	188.7	103.1	4.5
37.5°	593.7	589.4	582.8	560.7	525.8	467.4	350.9	225.0	128.4	66.7	2.6
40°	563.2	557.3	547.0	520.0	474.2	385.2	259.5	152.1	84.2	38.4	0.8
42.5°	484.2	476.7	469.1	439.0	386.6	287.2	170.8	94.0	48.1	21.1	0.2
45°	331.9	322.5	312.1	290.3	248.2	174.0	101.6	53.0	24.9	11.9	0.2
47.5°	230.5	226.2	208.1	180.2	138.2	92.2	52.6	26.0	13.2	5.5	0.2
50°	156.6	151.7	130.6	103.7	73.5	44.1	24.1	13.0	5.8	1.3	0.2
52.5°	82.2	76.1	62.8	47.9	29.8	18.5	10.6	5.7	1.7	0.2	0.2
55°	12.1	11.1	9.0	7.4	6.6	5.1	3.0	1.3	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

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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	26.4	26.4	26.4	26.4	26.4
2.5°	26.0	19.2	14.9	12.8	12.6
5°	23.6	13.8	9.0	7.0	6.6
7.5°	20.0	9.6	5.3	3.8	3.6
10°	16.4	6.6	3.2	2.6	2.5
12.5°	13.0	4.3	2.3	2.1	1.9
15°	10.0	2.8	1.7	1.5	1.5
17.5°	7.5	1.9	1.3	1.3	1.3
20°	5.7	1.3	0.9	1.1	1.1
22.5°	4.0	0.9	0.8	0.9	0.9
25°	2.8	0.8	0.8	0.9	0.9
27.5°	1.9	0.6	0.6	0.8	0.9
30°	1.1	0.4	0.6	0.8	0.9
32.5°	0.6	0.4	0.6	0.9	0.9
35°	0.4	0.6	0.8	0.9	1.1
37.5°	0.2	0.6	0.8	1.1	1.1
40°	0.2	0.6	0.8	1.1	1.3
42.5°	0.4	0.8	0.9	1.3	1.5
45°	0.4	0.8	1.1	1.5	1.7
47.5°	0.4	0.8	1.3	1.7	1.7
50°	0.6	0.9	1.3	1.7	1.9
52.5°	0.6	0.9	1.3	1.9	2.1
55°	0.6	0.9	1.5	1.9	2.1
57.5°	0.6	1.1	1.5	1.9	2.1
60°	0.6	0.9	1.5	1.9	2.1
62.5°	0.8	0.9	1.3	1.9	1.9
65°	0.8	0.9	1.3	1.9	1.9
67.5°	0.8	0.9	1.3	1.7	1.7
70°	0.8	0.9	1.1	1.5	1.5
72.5°	0.8	0.9	1.1	1.3	1.5
75°	0.6	0.8	0.9	1.1	1.3
77.5°	0.6	0.8	0.8	1.1	1.1
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)