

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: P1338979

Luminaire Tested: P3A05R409827DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338979
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: P3A05R409827DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

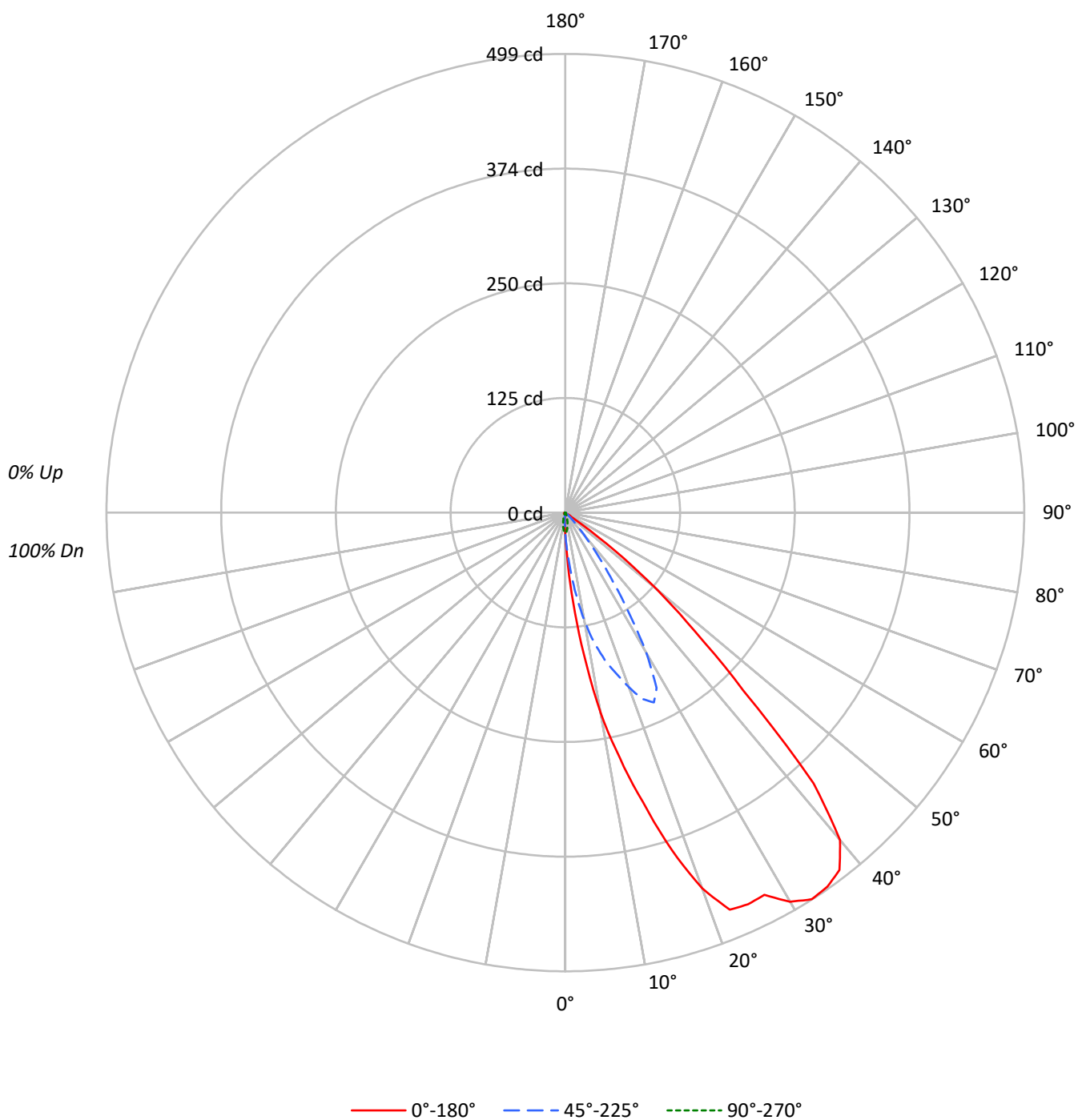
Lumens per Lamp: N/A
Luminaire Lumens: 184.1 lumens
Efficiency: N/A
Efficacy: 25.6 lumens/watt
Spacing Criteria (0/90/45): 2.52 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4780	4780	4780	4780	4780
5°	21528	13735	4270	1651	1189
10°	49387	26519	3006	579	445
15°	74098	37639	1862	318	272
20°	101462	47184	1097	187	210
25°	113740	55116	556	145	194
30°	123715	44488	228	127	203
35°	132963	22781	80	161	241
40°	133021	9074	57	172	315
45°	84939	3039	93	279	434
50°	44075	375	171	375	546
55°	3823	76	191	459	650
60°	132	88	219	526	746
65°	156	104	311	571	830
70°	128	128	385	577	769
75°	169	169	424	678	932
80°	253	253	631	631	758
85°	0	503	1258	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 84939 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	2.3
10°-20°	24.9	13.5
20°-30°	54.5	29.6
30°-40°	62.1	33.8
40°-50°	32.8	17.8
50°-60°	3.9	2.1
60°-70°	0.7	0.4
70°-80°	0.6	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°	83.7	45.5
0°-40°	145.8	79.2
0°-60°	182.5	99.1
0°-90°	184.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	184.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	98	62	19	8	5	13
15°	326	166	8	1	1	96
25°	470	228	2	1	1	217
35°	497	85	0	1	1	308
45°	274	10	0	1	1	221
55°	10	0	0	1	2	31
65°	0	0	1	1	2	0
75°	0	0	0	1	1	0
85°	0	0	0	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°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
2.5°	48.5	48.5	48.4	47.0	46.8	46.7	44.2	43.5	40.6	38.6	29.4
5°	97.8	95.6	95.5	93.0	88.8	83.2	79.6	73.9	68.3	62.4	36.2
7.5°	155.8	157.7	152.6	149.9	140.6	133.9	123.6	114.6	102.0	90.2	41.8
10°	221.8	218.5	213.4	208.2	198.1	186.1	170.9	154.9	136.7	119.1	44.9
12.5°	273.2	269.0	265.9	258.9	249.0	233.6	215.4	193.9	169.8	144.5	44.8
15°	326.4	322.2	315.2	309.0	294.2	277.0	257.2	228.9	199.4	165.8	41.5
17.5°	384.9	379.5	371.7	362.2	347.9	328.8	303.7	269.2	227.4	183.2	35.6
20°	434.8	431.6	423.8	412.6	398.6	379.9	351.0	312.7	261.7	202.2	28.3
22.5°	467.5	464.5	459.2	449.4	438.9	419.0	392.5	350.5	290.5	219.4	21.5
25°	470.1	468.9	467.5	464.2	457.8	443.7	417.9	372.6	308.4	227.8	15.9
27.5°	468.7	468.3	467.9	466.2	462.0	448.0	421.6	375.9	306.1	214.8	11.7
30°	488.6	487.2	486.4	480.8	469.8	448.2	413.7	358.3	272.0	175.7	8.4
32.5°	498.7	498.4	497.6	492.2	476.6	448.5	400.3	315.8	215.7	126.9	5.8
35°	496.7	495.2	492.4	482.2	460.6	425.3	357.1	252.2	155.7	85.1	3.7
37.5°	489.9	486.3	480.8	462.7	433.9	385.7	289.6	185.7	105.9	55.1	2.2
40°	464.7	459.9	451.3	429.1	391.3	317.9	214.1	125.5	69.5	31.7	0.6
42.5°	399.5	393.3	387.1	362.2	319.0	237.0	140.9	77.6	39.7	17.4	0.2
45°	273.9	266.1	257.5	239.5	204.8	143.5	83.8	43.7	20.5	9.8	0.2
47.5°	190.2	186.6	171.7	148.7	114.0	76.0	43.4	21.5	10.9	4.5	0.2
50°	129.2	125.2	107.8	85.5	60.7	36.4	19.9	10.7	4.8	1.1	0.2
52.5°	67.8	62.8	51.8	39.5	24.6	15.2	8.7	4.7	1.4	0.2	0.2
55°	10.0	9.2	7.5	6.1	5.4	4.2	2.5	1.1	0.2	0.2	0.3
57.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.3	0.2	0.2	0.2	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
65°	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3
67.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.5
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3
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°	21.8	21.8	21.8	21.8	21.8
2.5°	21.5	15.9	12.3	10.6	10.4
5°	19.4	11.4	7.5	5.8	5.4
7.5°	16.5	7.9	4.4	3.1	3.0
10°	13.5	5.4	2.6	2.2	2.0
12.5°	10.7	3.6	1.9	1.7	1.6
15°	8.2	2.3	1.4	1.2	1.2
17.5°	6.2	1.6	1.1	1.1	1.1
20°	4.7	1.1	0.8	0.9	0.9
22.5°	3.3	0.8	0.6	0.8	0.8
25°	2.3	0.6	0.6	0.8	0.8
27.5°	1.6	0.5	0.5	0.6	0.8
30°	0.9	0.3	0.5	0.6	0.8
32.5°	0.5	0.3	0.5	0.8	0.8
35°	0.3	0.5	0.6	0.8	0.9
37.5°	0.2	0.5	0.6	0.9	0.9
40°	0.2	0.5	0.6	0.9	1.1
42.5°	0.3	0.6	0.8	1.1	1.2
45°	0.3	0.6	0.9	1.2	1.4
47.5°	0.3	0.6	1.1	1.4	1.4
50°	0.5	0.8	1.1	1.4	1.6
52.5°	0.5	0.8	1.1	1.6	1.7
55°	0.5	0.8	1.2	1.6	1.7
57.5°	0.5	0.9	1.2	1.6	1.7
60°	0.5	0.8	1.2	1.6	1.7
62.5°	0.6	0.8	1.1	1.6	1.6
65°	0.6	0.8	1.1	1.6	1.6
67.5°	0.6	0.8	1.1	1.4	1.4
70°	0.6	0.8	0.9	1.2	1.2
72.5°	0.6	0.8	0.9	1.1	1.2
75°	0.5	0.6	0.8	0.9	1.1
77.5°	0.5	0.6	0.6	0.9	0.9
80°	0.5	0.5	0.5	0.6	0.6
82.5°	0.5	0.5	0.3	0.5	0.5
85°	0.5	0.3	0.3	0.3	0.3
87.5°	0.3	0.3	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)