

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: P1334181

Luminaire Tested: P3A02R159840DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R159840DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

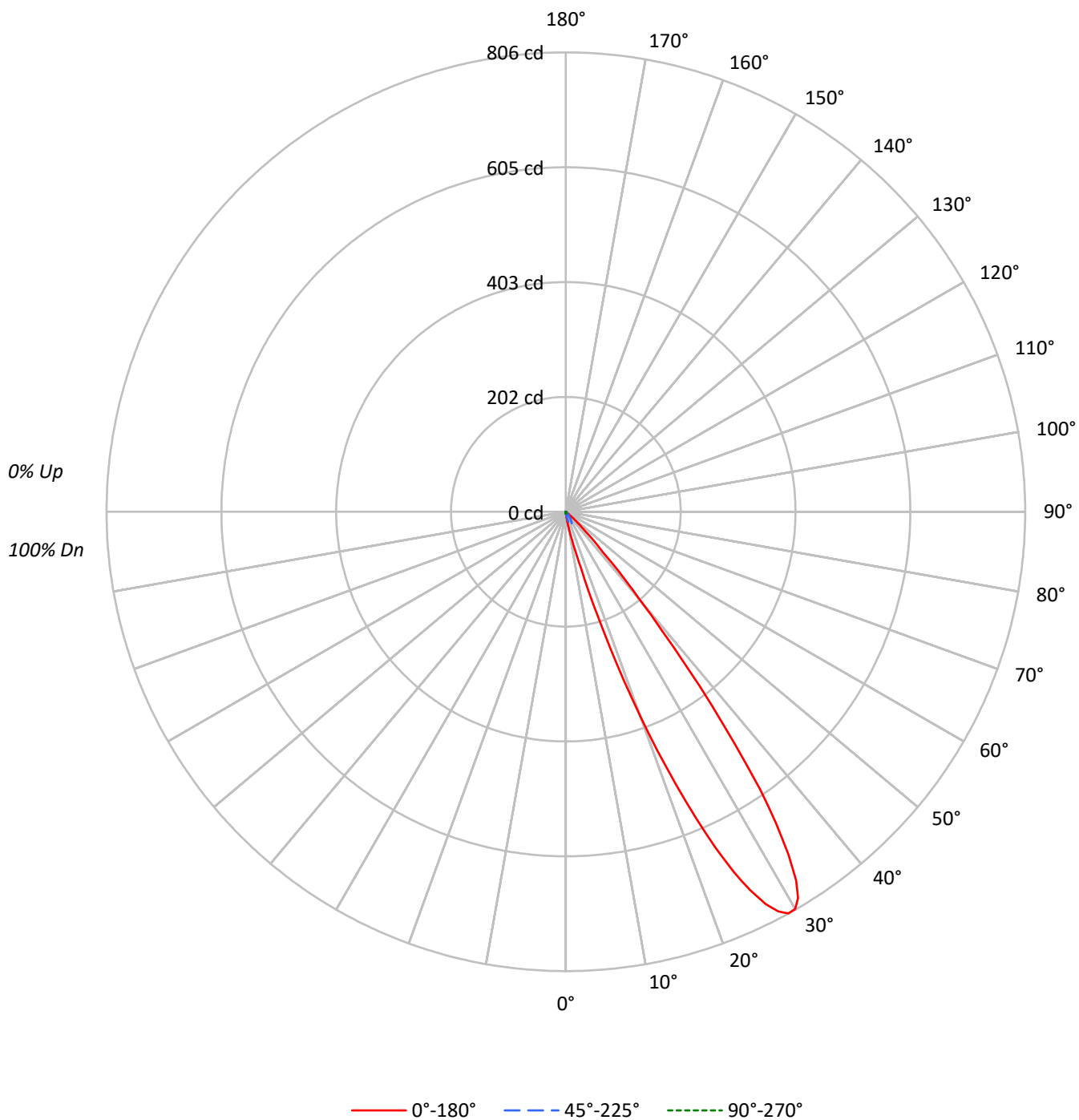
Lumens per Lamp: N/A
Luminaire Lumens: 88.0 lumens
Efficiency: N/A
Efficacy: 24.5 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.5 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	636	636	636	636	636
5°	1365	1013	594	330	264
10°	6101	1915	468	134	89
15°	23065	4450	341	68	45
20°	88721	6277	210	23	23
25°	168687	5879	97	0	0
30°	203778	4735	51	0	0
35°	158929	3239	27	0	0
40°	57994	1603	29	0	29
45°	14885	465	31	0	62
50°	2524	68	34	34	102
55°	344	0	76	115	153
60°	44	44	132	132	219
65°	52	52	156	208	259
70°	64	64	192	192	256
75°	85	85	254	254	254
80°	0	126	379	253	379
85°	0	252	755	252	252

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14885 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.4	0.5
10°-20°	6.7	7.7
20°-30°	37.4	42.5
30°-40°	36.1	41.0
40°-50°	6.3	7.1
50°-60°	0.5	0.5
60°-70°	0.3	0.3
70°-80°	0.2	0.3
80°-90°	0.1	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°	44.5	50.6
0°-40°	80.7	91.6
0°-60°	87.4	99.3
0°-90°	88.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	88.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	6	5	3	2	1	1
15°	102	20	2	0	0	45
25°	697	24	0	0	0	312
35°	594	12	0	0	0	341
45°	48	2	0	0	0	52
55°	1	0	0	0	0	2
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	4.3	4.1	4.2	4.2	4.2	4.2	4.2	4.0	4.0	4.1	3.7
5°	6.2	6.2	6.2	6.2	6.2	6.2	6.0	5.9	5.9	5.7	4.6
7.5°	12.5	12.3	12.3	12.2	11.3	11.0	10.9	10.4	9.7	9.5	6.0
10°	27.4	27.5	26.9	26.1	26.0	24.7	24.3	23.5	22.1	20.6	8.6
12.5°	49.7	48.6	47.2	47.3	44.8	43.9	41.9	39.8	37.6	35.3	14.2
15°	101.6	98.4	100.3	95.7	90.5	84.6	78.6	71.0	64.6	57.8	19.6
17.5°	214.0	217.1	211.9	192.1	179.9	165.6	145.5	126.1	109.5	96.1	24.0
20°	380.2	384.7	367.0	349.8	320.2	288.1	254.5	216.5	180.1	148.6	26.9
21°	449.6	446.8	439.6	412.0	377.9	340.6	299.5	257.6	213.5	172.6	27.1
22°	516.7	518.0	501.0	472.2	436.7	395.4	345.2	293.4	245.9	192.1	26.7
23°	583.5	587.7	565.2	538.2	493.6	446.9	388.9	333.0	274.3	214.4	25.9
24°	645.4	642.6	627.5	593.4	545.7	491.1	430.8	363.0	297.6	233.5	25.2
25°	697.2	696.9	673.1	640.0	585.4	524.9	458.5	387.6	317.5	246.4	24.3
26°	739.6	732.7	713.9	673.5	619.7	555.8	481.2	405.5	328.7	253.0	23.5
27°	772.3	767.3	742.2	700.1	643.9	573.3	495.7	414.4	333.8	255.1	22.3
28°	794.3	788.9	762.1	718.8	657.3	584.2	503.4	418.2	333.8	253.0	21.3
29°	805.7	798.3	771.6	725.2	660.3	585.5	501.5	414.5	328.6	246.7	20.1
30°	804.8	795.7	767.7	719.4	651.2	575.0	491.0	401.2	316.8	237.3	18.7
31°	791.0	780.7	749.4	699.7	632.3	555.1	471.2	383.4	300.6	225.0	17.4
32°	762.8	749.8	719.3	669.7	603.2	525.4	442.3	355.9	276.4	207.2	15.9
33°	716.9	703.8	671.1	624.6	563.8	487.8	404.0	326.4	248.8	185.8	14.7
34°	659.5	647.5	619.3	572.5	514.1	440.1	360.0	285.6	220.3	164.7	13.4
35°	593.7	574.6	549.1	512.1	455.1	380.7	312.5	247.6	190.8	142.5	12.1
36°	504.8	508.2	481.2	435.8	388.6	330.3	264.9	206.4	159.6	121.5	10.9
37°	426.0	420.6	403.4	368.3	327.2	269.2	222.0	175.0	134.2	102.7	9.6
38°	343.6	344.8	327.9	301.0	260.2	221.4	178.7	143.7	112.3	87.4	8.4
39°	269.0	268.0	263.5	238.5	201.6	176.1	144.8	119.2	93.6	73.7	7.1
40°	202.6	204.2	193.5	178.5	157.0	136.0	115.3	95.0	77.4	62.1	5.6
42.5°	98.5	100.9	93.9	90.1	80.6	72.3	61.0	49.8	42.4	36.6	2.5
45°	48.0	46.7	46.1	44.2	41.9	37.5	33.2	28.5	24.9	21.5	1.5
47.5°	24.6	23.9	23.9	23.1	22.3	20.9	18.7	17.2	15.5	13.4	0.6
50°	7.4	7.3	7.2	7.3	7.0	7.3	7.4	7.5	6.8	6.8	0.2
52.5°	2.9	3.0	2.9	3.2	3.2	3.1	3.2	3.1	3.0	2.7	0.0
55°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	1.0	0.0
57.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
60°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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



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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

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	2.9	2.9	2.9	2.9	2.9	2.9
2.5°	3.4	3.0	2.5	2.1	1.9	1.8
5°	3.7	2.7	1.9	1.5	1.3	1.2
7.5°	3.9	2.5	1.5	1.0	0.8	0.7
10°	4.1	2.1	1.1	0.6	0.4	0.4
12.5°	4.1	1.7	0.8	0.3	0.3	0.3
15°	4.0	1.5	0.5	0.3	0.2	0.2
17.5°	3.9	1.1	0.3	0.2	0.1	0.2
20°	3.7	0.9	0.2	0.1	0.1	0.1
21°	3.6	0.8	0.2	0.1	0.1	0.1
22°	3.4	0.7	0.1	0.0	0.1	0.1
23°	3.3	0.5	0.1	0.0	0.0	0.0
24°	3.0	0.4	0.1	0.0	0.0	0.0
25°	2.8	0.4	0.1	0.0	0.0	0.0
26°	2.7	0.3	0.0	0.0	0.0	0.0
27°	2.4	0.2	0.0	0.0	0.0	0.0
28°	2.2	0.2	0.0	0.0	0.0	0.0
29°	2.0	0.2	0.0	0.0	0.0	0.0
30°	1.7	0.2	0.0	0.0	0.0	0.0
31°	1.4	0.1	0.0	0.0	0.0	0.0
32°	1.1	0.1	0.0	0.0	0.0	0.0
33°	0.8	0.1	0.0	0.0	0.0	0.0
34°	0.5	0.1	0.0	0.0	0.0	0.0
35°	0.4	0.1	0.0	0.0	0.0	0.0
36°	0.3	0.1	0.0	0.0	0.0	0.1
37°	0.3	0.1	0.0	0.0	0.0	0.1
38°	0.2	0.1	0.0	0.0	0.0	0.1
39°	0.1	0.1	0.0	0.0	0.0	0.1
40°	0.1	0.1	0.0	0.0	0.0	0.1
42.5°	0.0	0.1	0.0	0.0	0.1	0.2
45°	0.0	0.1	0.0	0.0	0.1	0.2
47.5°	0.0	0.1	0.0	0.0	0.2	0.2
50°	0.0	0.1	0.1	0.1	0.2	0.3
52.5°	0.0	0.2	0.1	0.2	0.3	0.3
55°	0.1	0.2	0.2	0.3	0.3	0.4
57.5°	0.1	0.3	0.3	0.3	0.4	0.4
60°	0.2	0.3	0.3	0.3	0.5	0.5
62.5°	0.2	0.3	0.3	0.3	0.5	0.5
65°	0.2	0.3	0.3	0.4	0.5	0.5
67.5°	0.2	0.3	0.3	0.3	0.4	0.5
70°	0.2	0.3	0.3	0.3	0.4	0.4
72.5°	0.2	0.3	0.3	0.3	0.3	0.4
75°	0.2	0.3	0.3	0.3	0.3	0.3
77.5°	0.2	0.3	0.3	0.2	0.3	0.3
80°	0.2	0.3	0.2	0.2	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.2	0.3	0.2	0.1	0.2	0.2
85°	0.2	0.3	0.2	0.1	0.1	0.1
87.5°	0.2	0.3	0.1	0.0	0.0	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)