

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: P1334165

Luminaire Tested: P3A02R159835DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334165
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: P3A02R159835DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

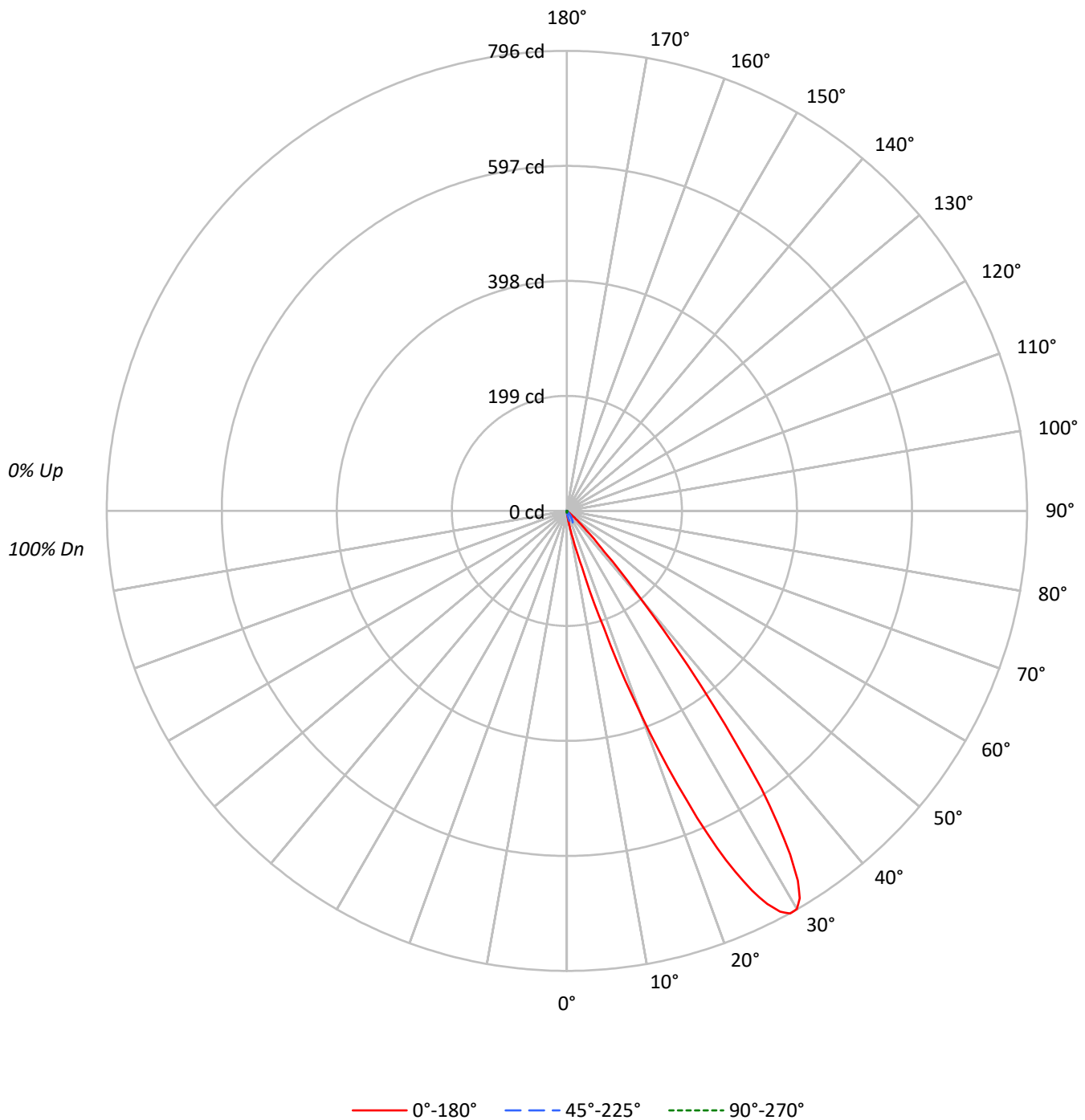
Lumens per Lamp: N/A
Luminaire Lumens: 87.1 lumens
Efficiency: N/A
Efficacy: 24.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.48 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	636	636	636	636	636
5°	1365	1013	594	308	264
10°	6034	1893	468	134	89
15°	22815	4404	318	68	45
20°	87694	6207	187	23	23
25°	166776	5807	97	0	0
30°	201474	4684	51	0	0
35°	157135	3186	27	0	0
40°	57336	1574	29	0	29
45°	14730	465	31	0	62
50°	2490	68	34	34	102
55°	306	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: 14730 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°	37.0	42.5
30°-40°	35.7	41.0
40°-50°	6.2	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°	44.0	50.6
0°-40°	79.8	91.6
0°-60°	86.4	99.3
0°-90°	87.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	87.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	6	5	3	1	1	1
15°	100	19	1	0	0	45
25°	689	24	0	0	0	308
35°	587	12	0	0	0	338
45°	48	2	0	0	0	51
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°	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.1	3.6
5°	6.2	6.2	6.1	6.2	6.2	6.1	5.9	5.8	5.8	5.7	4.6
7.5°	12.4	12.2	12.2	12.0	11.2	10.9	10.7	10.3	9.6	9.4	5.9
10°	27.1	27.2	26.6	25.8	25.7	24.5	24.0	23.3	21.8	20.4	8.5
12.5°	49.2	48.1	46.6	46.7	44.3	43.4	41.5	39.4	37.2	34.9	14.0
15°	100.5	97.3	99.2	94.6	89.5	83.6	77.7	70.2	63.9	57.1	19.4
17.5°	211.6	214.6	209.5	189.9	177.9	163.8	143.9	124.7	108.2	95.0	23.7
20°	375.8	380.3	362.8	345.8	316.6	284.8	251.6	214.0	178.1	146.9	26.6
21°	444.5	441.8	434.6	407.3	373.6	336.7	296.1	254.6	211.1	170.6	26.8
22°	510.8	512.1	495.3	466.8	431.8	390.9	341.3	290.1	243.1	189.9	26.4
23°	576.9	581.0	558.8	532.1	488.0	441.8	384.5	329.2	271.2	212.0	25.6
24°	638.1	635.3	620.3	586.6	539.5	485.5	425.9	358.9	294.2	230.9	24.9
25°	689.3	689.0	665.4	632.7	578.8	518.9	453.3	383.2	313.9	243.6	24.0
26°	731.2	724.3	705.8	665.9	612.6	549.5	475.7	400.9	325.0	250.1	23.2
27°	763.5	758.6	733.7	692.2	636.6	566.8	490.1	409.7	330.1	252.2	22.1
28°	785.3	779.9	753.5	710.6	649.8	577.6	497.7	413.4	330.1	250.2	21.1
29°	796.5	789.3	762.8	717.0	652.8	578.9	495.8	409.8	324.9	243.9	19.9
30°	795.7	786.6	759.0	711.2	643.8	568.5	485.4	396.7	313.2	234.6	18.5
31°	782.0	771.8	740.9	691.8	625.1	548.8	465.8	379.1	297.2	222.5	17.2
32°	754.1	741.3	711.1	662.1	596.3	519.5	437.3	351.9	273.3	204.8	15.7
33°	708.8	695.8	663.5	617.5	557.4	482.2	399.4	322.7	246.0	183.7	14.6
34°	652.0	640.1	612.3	566.0	508.3	435.1	356.0	282.3	217.8	162.8	13.3
35°	587.0	568.1	542.9	506.3	450.0	376.3	309.0	244.7	188.6	140.9	11.9
36°	499.1	502.4	475.7	430.8	384.2	326.5	261.8	204.0	157.7	120.1	10.7
37°	421.1	415.8	398.8	364.1	323.5	266.2	219.4	173.0	132.7	101.6	9.5
38°	339.7	340.9	324.2	297.6	257.3	218.9	176.6	142.1	111.0	86.4	8.3
39°	265.9	265.0	260.5	235.8	199.3	174.1	143.1	117.8	92.5	72.9	7.0
40°	200.3	201.8	191.3	176.5	155.2	134.5	114.0	93.9	76.5	61.4	5.5
42.5°	97.4	99.8	92.8	89.0	79.6	71.5	60.3	49.3	41.9	36.2	2.5
45°	47.5	46.1	45.5	43.7	41.5	37.1	32.8	28.2	24.6	21.2	1.5
47.5°	24.3	23.6	23.6	22.8	22.1	20.6	18.5	17.0	15.3	13.2	0.6
50°	7.3	7.2	7.1	7.2	6.9	7.2	7.4	7.4	6.8	6.7	0.2
52.5°	2.9	3.0	2.9	3.1	3.1	3.0	3.1	3.0	3.0	2.6	0.0
55°	0.8	0.8	0.8	0.8	0.8	0.8	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	2.0	1.9	1.8
5°	3.6	2.7	1.9	1.4	1.3	1.2
7.5°	3.9	2.5	1.4	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	1.4	0.5	0.3	0.2	0.2
17.5°	3.9	1.1	0.3	0.2	0.1	0.2
20°	3.6	0.8	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°	3.2	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°	2.6	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°	1.9	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)