

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: P1342573

Luminaire Tested: P3A09R409840DE010 E3A301GPH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342573
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: P3A09R409840DE010 E3A301GPH
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , E3A301GPH TRIM
Light Source: -
Ballast/Driver: -

Summary

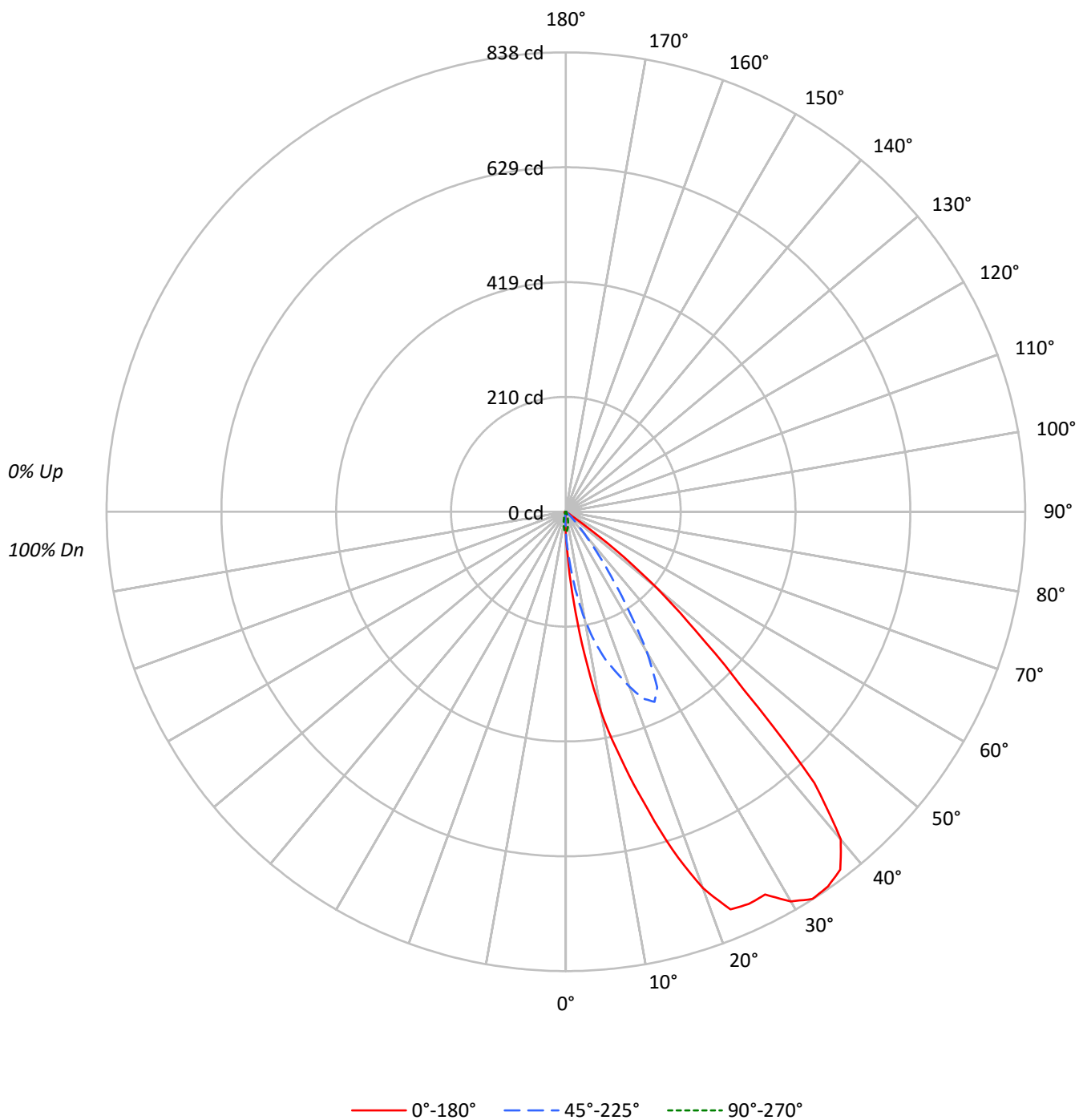
Lumens per Lamp: N/A
Luminaire Lumens: 309.0 lumens
Efficiency: N/A
Efficacy: 28.1 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	51	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°	8026	8026	8026	8026	8026
5°	36165	23046	7176	2751	2003
10°	82920	44533	5054	980	757
15°	124450	63201	3133	545	477
20°	170395	79224	1820	303	373
25°	191019	92570	944	242	315
30°	207779	74720	405	203	329
35°	223282	38253	134	268	428
40°	223361	15257	86	286	515
45°	142619	5117	155	496	744
50°	74027	614	273	614	887
55°	6384	115	306	803	1109
60°	219	132	351	921	1272
65°	259	156	519	934	1349
70°	192	192	641	1026	1346
75°	254	254	678	1101	1525
80°	379	379	1010	1010	1263
85°	0	755	2013	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 142619 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	2.3
10°-20°	41.8	13.5
20°-30°	91.6	29.6
30°-40°	104.4	33.8
40°-50°	55.1	17.8
50°-60°	6.5	2.1
60°-70°	1.2	0.4
70°-80°	1.0	0.3
80°-90°	0.4	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°	140.5	45.5
0°-40°	244.9	79.2
0°-60°	306.4	99.2
0°-90°	309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	309.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	164	105	33	12	9	22
15°	548	278	14	2	2	162
25°	790	383	4	1	1	364
35°	834	143	0	1	2	517
45°	460	16	0	2	2	371
55°	17	0	1	2	3	52
65°	0	0	1	2	3	0
75°	0	0	1	1	2	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°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	81.5	81.5	81.2	78.9	78.6	78.3	74.2	73.1	68.2	64.8	49.4
5°	164.3	160.6	160.4	156.2	149.1	139.7	133.7	124.1	114.6	104.7	60.9
7.5°	261.7	264.8	256.2	251.8	236.1	224.9	207.6	192.5	171.3	151.5	70.3
10°	372.4	366.9	358.3	349.7	332.7	312.6	287.0	260.1	229.6	200.0	75.5
12.5°	458.9	451.8	446.6	434.8	418.1	392.3	361.7	325.7	285.2	242.6	75.2
15°	548.2	541.1	529.4	518.9	494.1	465.1	432.0	384.4	334.8	278.4	69.7
17.5°	646.4	637.2	624.2	608.2	584.2	552.1	510.0	452.1	381.8	307.6	59.8
20°	730.2	724.7	711.7	692.9	669.4	638.0	589.4	525.2	439.5	339.5	47.5
22.5°	785.1	780.1	771.2	754.8	737.0	703.6	659.2	588.7	487.8	368.5	36.0
25°	789.5	787.4	785.1	779.6	768.9	745.1	701.7	625.7	517.9	382.6	26.6
27.5°	787.1	786.4	785.8	783.0	775.9	752.4	708.0	631.2	514.0	360.7	19.6
30°	820.6	818.2	816.9	807.5	789.0	752.7	694.7	601.7	456.8	295.1	14.1
32.5°	837.5	837.0	835.7	826.6	800.5	753.2	672.2	530.4	362.2	213.1	9.7
35°	834.1	831.5	826.8	809.9	773.6	714.3	599.6	423.6	261.4	142.9	6.3
37.5°	822.7	816.7	807.5	777.0	728.6	647.7	486.3	311.8	177.9	92.5	3.7
40°	780.3	772.3	757.9	720.5	657.1	533.8	359.6	210.8	116.7	53.3	1.0
42.5°	670.9	660.5	650.0	608.2	535.6	398.0	236.6	130.3	66.6	29.3	0.3
45°	459.9	446.8	432.5	402.2	343.9	241.1	140.8	73.4	34.5	16.5	0.3
47.5°	319.4	313.4	288.3	249.7	191.4	127.7	72.9	36.0	18.3	7.6	0.3
50°	217.0	210.2	181.0	143.6	101.9	61.1	33.4	18.0	8.1	1.8	0.3
52.5°	113.9	105.5	87.0	66.3	41.3	25.6	14.6	7.8	2.4	0.3	0.3
55°	16.7	15.4	12.5	10.2	9.1	7.1	4.2	1.8	0.3	0.3	0.5
57.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.5	0.3	0.3	0.3	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5
67.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.3	0.3	0.5	0.8
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5
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°	36.6	36.6	36.6	36.6	36.6
2.5°	36.0	26.6	20.6	17.8	17.5
5°	32.6	19.1	12.5	9.7	9.1
7.5°	27.7	13.3	7.3	5.2	5.0
10°	22.7	9.1	4.4	3.7	3.4
12.5°	18.0	6.0	3.1	2.9	2.6
15°	13.8	3.9	2.4	2.1	2.1
17.5°	10.4	2.6	1.8	1.8	1.8
20°	7.8	1.8	1.3	1.6	1.6
22.5°	5.5	1.3	1.0	1.3	1.3
25°	3.9	1.0	1.0	1.3	1.3
27.5°	2.6	0.8	0.8	1.0	1.3
30°	1.6	0.5	0.8	1.0	1.3
32.5°	0.8	0.5	0.8	1.3	1.3
35°	0.5	0.8	1.0	1.3	1.6
37.5°	0.3	0.8	1.0	1.6	1.6
40°	0.3	0.8	1.0	1.6	1.8
42.5°	0.5	1.0	1.3	1.8	2.1
45°	0.5	1.0	1.6	2.1	2.4
47.5°	0.5	1.0	1.8	2.4	2.4
50°	0.8	1.3	1.8	2.4	2.6
52.5°	0.8	1.3	1.8	2.6	2.9
55°	0.8	1.3	2.1	2.6	2.9
57.5°	0.8	1.6	2.1	2.6	2.9
60°	0.8	1.3	2.1	2.6	2.9
62.5°	1.0	1.3	1.8	2.6	2.6
65°	1.0	1.3	1.8	2.6	2.6
67.5°	1.0	1.3	1.8	2.4	2.4
70°	1.0	1.3	1.6	2.1	2.1
72.5°	1.0	1.3	1.6	1.8	2.1
75°	0.8	1.0	1.3	1.6	1.8
77.5°	0.8	1.0	1.0	1.6	1.6
80°	0.8	0.8	0.8	1.0	1.0
82.5°	0.8	0.8	0.5	0.8	0.8
85°	0.8	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)