

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: P1342050

Luminaire Tested: P3A09R359835DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R359835DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 3500K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

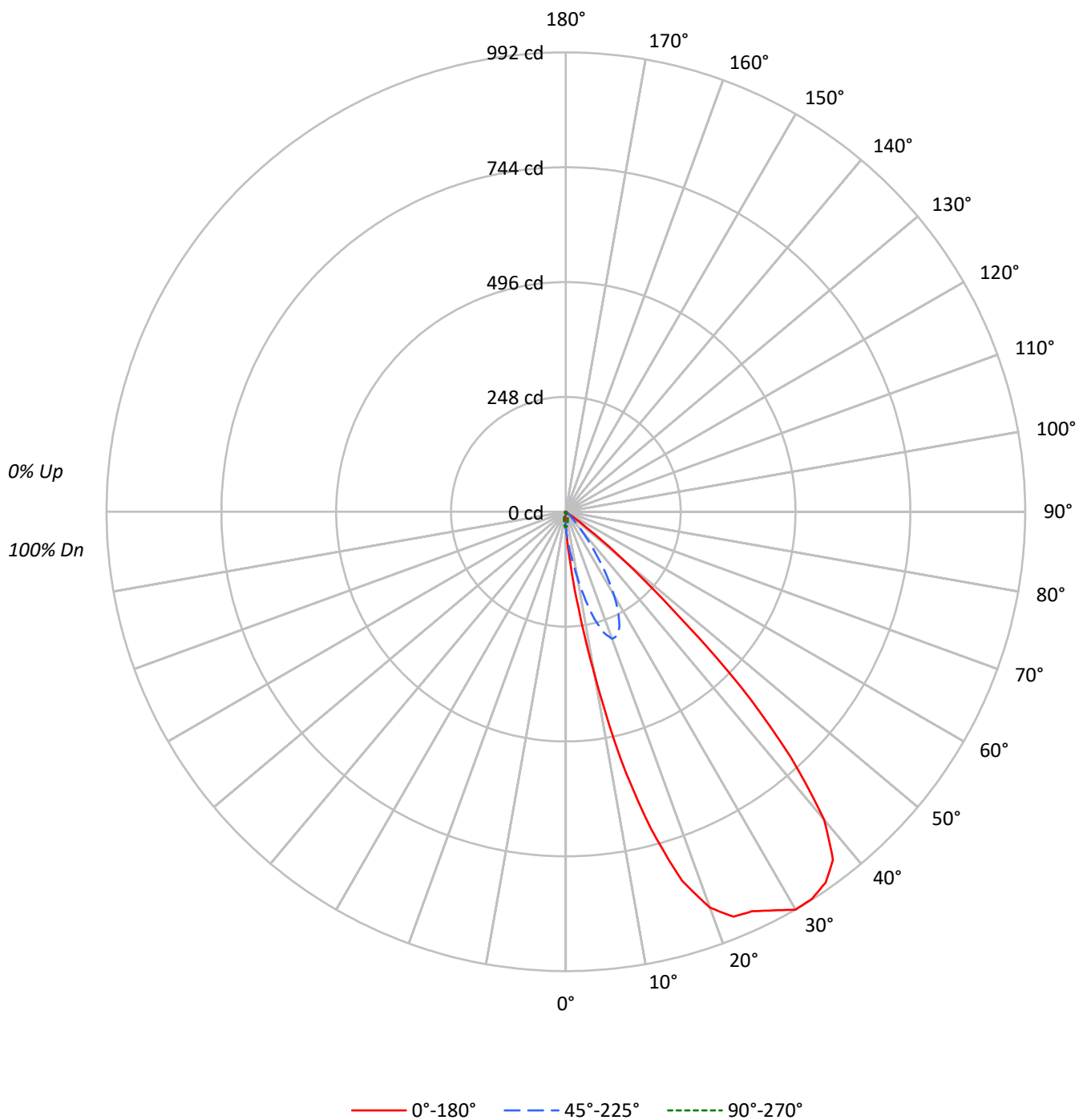
Lumens per Lamp: N/A
Luminaire Lumens: 312.0 lumens
Efficiency: N/A
Efficacy: 28.4 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	98	96	96	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83		
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	74		
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67		
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61		
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55		
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41		
10	62	50	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°	7192	7192	7192	7192	7192
5°	24477	15915	6714	2840	2091
10°	78756	32242	5299	1069	690
15°	160478	54688	3746	386	250
20°	212212	68093	2427	140	140
25°	230263	66197	1355	73	145
30°	251178	52768	557	76	152
35°	261723	32846	161	80	161
40°	248380	14341	86	172	229
45°	165816	5737	93	248	434
50°	55606	955	205	375	580
55°	3097	115	229	535	765
60°	263	132	351	614	877
65°	311	156	415	726	1038
70°	192	192	513	898	1090
75°	254	254	678	932	1186
80°	0	379	1010	1010	1010
85°	0	755	2013	755	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 165816 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	1.8
10°-20°	44.8	14.4
20°-30°	94.6	30.3
30°-40°	107.3	34.4
40°-50°	52.8	16.9
50°-60°	4.6	1.5
60°-70°	0.9	0.3
70°-80°	0.9	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°	145.1	46.5
0°-40°	252.4	80.9
0°-60°	309.8	99.3
0°-90°	312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	312.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	111	72	30	13	10	18
15°	707	241	16	2	1	201
25°	952	274	6	0	1	443
35°	978	123	1	0	1	603
45°	535	18	0	1	1	395
55°	8	0	1	1	2	32
65°	1	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	1	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°	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.8
2.5°	56.9	58.3	57.7	57.4	57.1	56.0	53.5	53.2	50.7	49.0	40.6
5°	111.2	108.9	109.5	106.4	102.5	96.9	93.3	85.4	79.0	72.3	47.3
7.5°	209.5	206.4	200.5	191.6	182.3	170.3	152.1	137.5	120.7	104.7	52.7
10°	353.7	352.0	344.5	321.5	301.4	269.1	238.9	207.0	175.6	144.8	56.3
12.5°	546.4	534.9	521.2	490.7	450.9	410.6	350.9	295.8	245.6	194.1	56.6
15°	706.9	699.6	680.3	640.5	592.6	534.4	463.5	389.3	313.7	240.9	53.8
17.5°	836.0	824.8	799.9	761.0	705.8	630.2	547.3	456.8	364.7	274.2	49.0
20°	909.4	903.5	884.5	845.5	785.3	702.7	608.3	503.0	396.6	291.8	42.9
22.5°	946.4	942.2	928.2	897.1	840.8	757.6	649.5	527.1	405.8	289.9	36.4
25°	951.7	950.6	938.5	915.0	867.9	785.6	667.4	531.6	398.3	273.6	30.2
27.5°	970.2	966.2	952.0	928.4	881.1	790.4	661.2	516.2	373.9	245.1	25.2
30°	992.0	989.2	974.9	950.6	894.5	785.9	639.4	482.0	335.0	208.4	18.8
32.5°	990.3	989.2	977.2	951.4	885.0	759.6	600.5	430.7	282.0	164.4	11.8
35°	977.7	973.8	958.7	918.9	830.7	691.8	526.5	361.3	223.2	122.7	7.6
37.5°	947.5	939.1	913.6	846.1	733.5	587.3	428.8	279.0	158.0	82.1	4.8
40°	867.7	857.0	805.8	724.3	606.4	462.7	319.0	191.8	104.2	50.1	2.0
42.5°	719.8	698.2	647.0	563.2	452.6	327.1	209.5	124.4	61.3	30.2	0.6
45°	534.7	518.1	464.4	388.5	296.6	209.8	126.9	67.2	33.9	18.5	0.3
47.5°	311.4	301.4	273.6	223.8	163.8	110.1	65.0	36.1	19.9	9.0	0.3
50°	163.0	150.4	129.4	98.0	72.3	50.7	31.6	19.3	9.8	2.8	0.3
52.5°	57.1	56.3	51.3	38.6	31.4	22.7	15.4	8.4	2.8	0.6	0.3
55°	8.1	8.1	7.6	8.4	9.0	8.1	5.3	2.2	0.6	0.3	0.3
57.5°	0.6	0.6	0.6	0.8	1.1	1.1	0.8	0.3	0.3	0.3	0.6
60°	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
62.5°	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
65°	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
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	0.3	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°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.6
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°	32.8	32.8	32.8	32.8	32.8
2.5°	32.5	26.0	20.7	18.2	17.4
5°	30.5	19.6	12.9	10.1	9.5
7.5°	27.2	14.0	7.8	5.6	5.3
10°	23.8	10.1	4.8	3.4	3.1
12.5°	19.9	7.0	3.1	2.0	1.7
15°	16.5	4.8	1.7	1.4	1.1
17.5°	13.2	3.1	1.1	0.8	1.1
20°	10.4	2.0	0.6	0.6	0.6
22.5°	7.8	1.1	0.6	0.6	0.6
25°	5.6	0.6	0.3	0.3	0.6
27.5°	3.9	0.3	0.3	0.3	0.6
30°	2.2	0.3	0.3	0.3	0.6
32.5°	1.1	0.3	0.3	0.6	0.6
35°	0.6	0.3	0.3	0.6	0.6
37.5°	0.3	0.3	0.3	0.6	0.8
40°	0.3	0.3	0.6	0.8	0.8
42.5°	0.3	0.3	0.6	0.8	1.1
45°	0.3	0.6	0.8	1.1	1.4
47.5°	0.6	0.6	1.1	1.4	1.7
50°	0.6	0.8	1.1	1.7	1.7
52.5°	0.6	0.8	1.4	1.7	2.0
55°	0.6	1.1	1.4	2.0	2.0
57.5°	0.8	1.1	1.4	2.0	2.0
60°	0.8	1.1	1.4	2.0	2.0
62.5°	0.8	1.1	1.4	2.0	2.0
65°	0.8	1.1	1.4	2.0	2.0
67.5°	0.8	1.1	1.4	1.7	2.0
70°	0.8	1.1	1.4	1.7	1.7
72.5°	1.1	1.1	1.4	1.7	1.7
75°	0.8	1.1	1.1	1.4	1.4
77.5°	0.8	0.8	0.8	1.1	1.1
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.6	0.6	0.8	0.8
85°	0.8	0.6	0.3	0.6	0.6
87.5°	0.6	0.6	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)