

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: P1341506

Luminaire Tested: P3A09R309827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1341506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A09R309827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

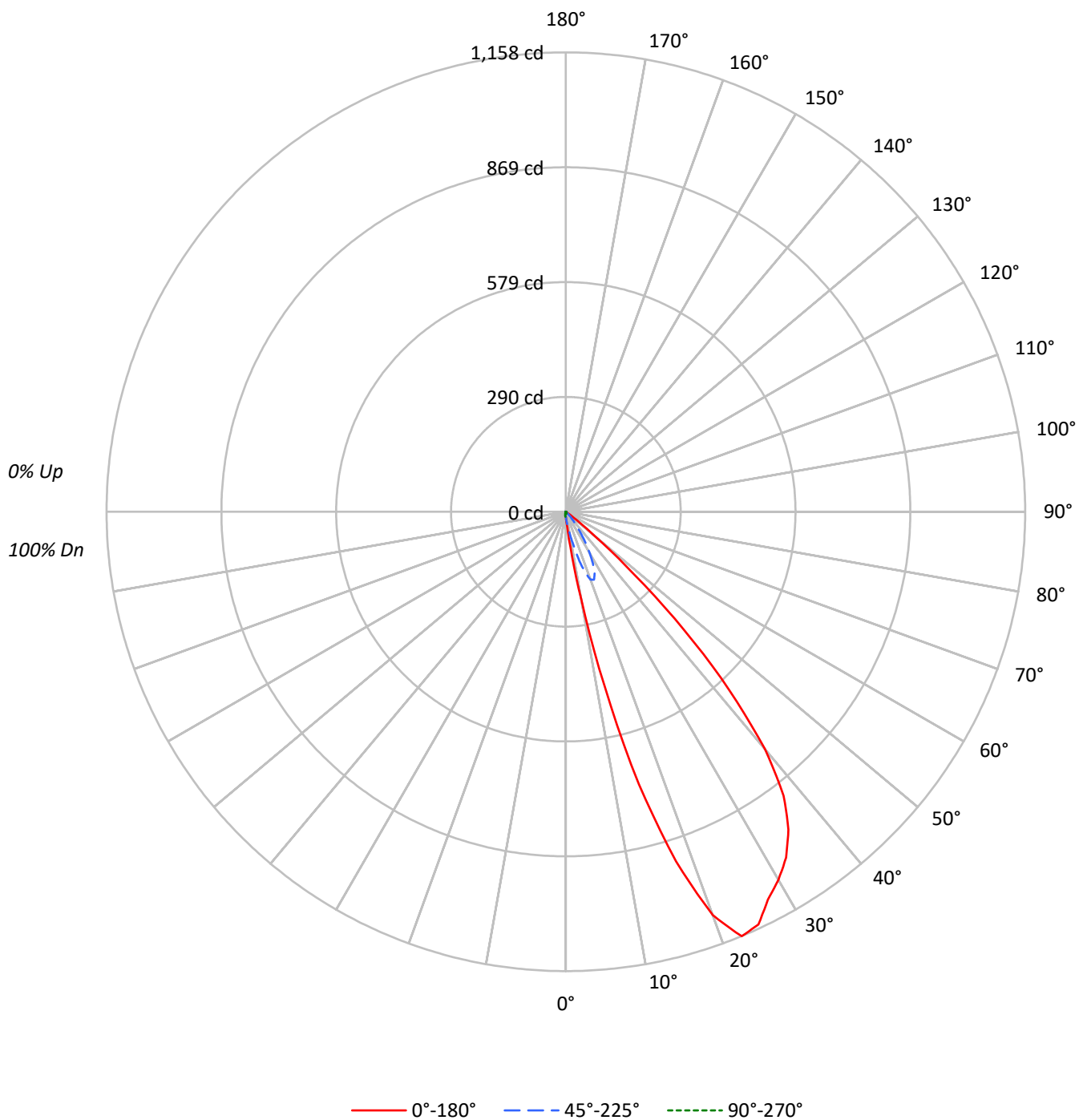
Lumens per Lamp: N/A
Luminaire Lumens: 272.9 lumens
Efficiency: N/A
Efficacy: 24.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2851	2851	2851	2851	2851
5°	8563	5701	2685	1211	991
10°	49609	12113	2115	557	379
15°	161340	27469	1476	114	45
20°	252465	42494	933	0	0
25°	277758	41519	484	0	0
30°	271282	29929	177	0	0
35°	261830	17025	54	0	0
40°	223304	7214	0	0	0
45°	131052	2698	62	0	62
50°	31828	512	68	68	239
55°	2753	0	191	268	382
60°	88	0	219	307	526
65°	104	104	363	363	623
70°	128	128	449	449	641
75°	0	169	593	593	593
80°	0	253	884	631	631
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 131052 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.9
10°-20°	37.5	13.8
20°-30°	95.3	34.9
30°-40°	95.0	34.8
40°-50°	38.5	14.1
50°-60°	2.6	1.0
60°-70°	0.6	0.2
70°-80°	0.6	0.2
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°	135.3	49.6
0°-40°	230.3	84.4
0°-60°	271.4	99.5
0°-90°	272.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	272.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	39	26	12	6	4	9
15°	711	121	6	0	0	207
25°	1148	172	2	0	0	518
35°	978	64	0	0	0	600
45°	423	9	0	0	0	322
55°	7	0	0	1	1	19
65°	0	0	1	1	1	0
75°	0	0	1	1	1	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°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
2.5°	21.5	21.7	21.7	21.2	21.0	21.0	20.2	20.0	19.2	18.5	16.0
5°	38.9	38.2	37.2	37.2	34.9	33.7	31.9	29.9	28.4	25.9	18.5
7.5°	88.3	82.3	80.6	78.3	69.8	63.1	55.4	48.6	42.4	37.2	20.5
10°	222.8	211.0	201.3	181.6	156.9	133.2	111.3	85.8	68.4	54.4	22.0
12.5°	448.8	433.1	414.4	378.4	332.3	273.2	220.8	164.9	115.7	80.1	22.5
15°	710.7	684.0	654.8	609.2	533.6	448.8	354.2	265.2	185.8	121.0	22.0
17.5°	924.2	913.8	870.6	808.2	715.7	606.4	489.9	368.2	250.7	158.4	20.5
20°	1081.9	1074.7	1022.5	956.2	851.9	726.7	578.7	432.6	295.9	182.1	18.2
22.5°	1158.0	1156.7	1119.1	1051.2	940.7	798.8	635.9	469.7	309.8	185.3	15.2
25°	1148.0	1152.5	1131.0	1080.7	974.6	828.5	652.8	469.7	299.6	171.6	12.7
27.5°	1102.6	1105.6	1092.1	1053.5	954.7	807.0	629.1	439.5	269.9	147.4	10.5
30°	1071.4	1072.7	1056.0	1014.6	909.8	758.1	573.3	383.7	225.0	118.2	7.7
32.5°	1033.5	1033.3	1013.8	966.4	850.9	689.5	502.4	317.1	172.9	89.8	4.5
35°	978.1	971.9	945.5	890.8	763.1	597.2	411.9	241.5	124.5	63.6	2.7
37.5°	902.0	885.8	848.4	775.3	639.9	468.2	305.3	169.6	85.1	42.2	1.7
40°	780.1	762.8	712.0	623.1	484.0	337.0	205.8	110.5	53.6	25.2	1.0
42.5°	611.7	600.0	531.3	442.8	319.6	215.0	123.7	65.4	30.2	14.5	0.2
45°	422.6	407.4	353.5	278.4	191.8	119.2	69.3	34.2	17.2	8.7	0.0
47.5°	233.2	214.5	183.4	144.2	96.5	62.6	34.9	18.5	9.7	4.2	0.0
50°	93.3	92.5	73.6	52.4	36.9	28.4	17.5	10.0	5.0	1.5	0.2
52.5°	32.7	32.7	28.2	23.0	18.0	13.0	8.7	4.7	1.7	0.5	0.2
55°	7.2	8.0	7.5	7.0	6.7	5.7	3.7	1.7	0.5	0.0	0.2
57.5°	0.7	0.7	0.7	1.0	1.2	1.2	1.0	0.5	0.0	0.0	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.5
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.5
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.5
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	0.0	0.2	0.2	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	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°	13.0	13.0	13.0	13.0	13.0
2.5°	13.0	10.2	8.5	7.5	7.2
5°	12.2	7.7	5.5	4.7	4.5
7.5°	11.0	5.7	3.7	3.0	2.7
10°	9.5	4.2	2.5	1.7	1.7
12.5°	8.0	3.2	1.5	0.7	0.5
15°	6.5	2.0	0.5	0.2	0.2
17.5°	5.0	1.2	0.0	0.0	0.0
20°	4.0	0.5	0.0	0.0	0.0
22.5°	3.0	0.2	0.0	0.0	0.0
25°	2.0	0.0	0.0	0.0	0.0
27.5°	1.2	0.0	0.0	0.0	0.0
30°	0.7	0.0	0.0	0.0	0.0
32.5°	0.2	0.0	0.0	0.0	0.0
35°	0.2	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.2	0.0	0.0	0.2	0.2
47.5°	0.2	0.2	0.2	0.5	0.5
50°	0.2	0.2	0.2	0.5	0.7
52.5°	0.5	0.2	0.5	0.7	0.7
55°	0.5	0.5	0.7	1.0	1.0
57.5°	0.5	0.5	0.7	1.0	1.0
60°	0.5	0.5	0.7	1.0	1.2
62.5°	0.7	0.7	0.7	1.0	1.0
65°	0.7	0.7	0.7	1.0	1.2
67.5°	0.7	0.7	0.7	1.0	1.2
70°	0.7	0.7	0.7	1.0	1.0
72.5°	1.0	0.7	0.7	1.0	1.0
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.5	0.7	0.7
80°	0.7	0.5	0.5	0.5	0.5
82.5°	0.7	0.5	0.5	0.5	0.5
85°	0.7	0.5	0.2	0.2	0.2
87.5°	0.7	0.5	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)