

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: P1342530

Luminaire Tested: P3A09R409827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1342530
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: P3A09R409827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

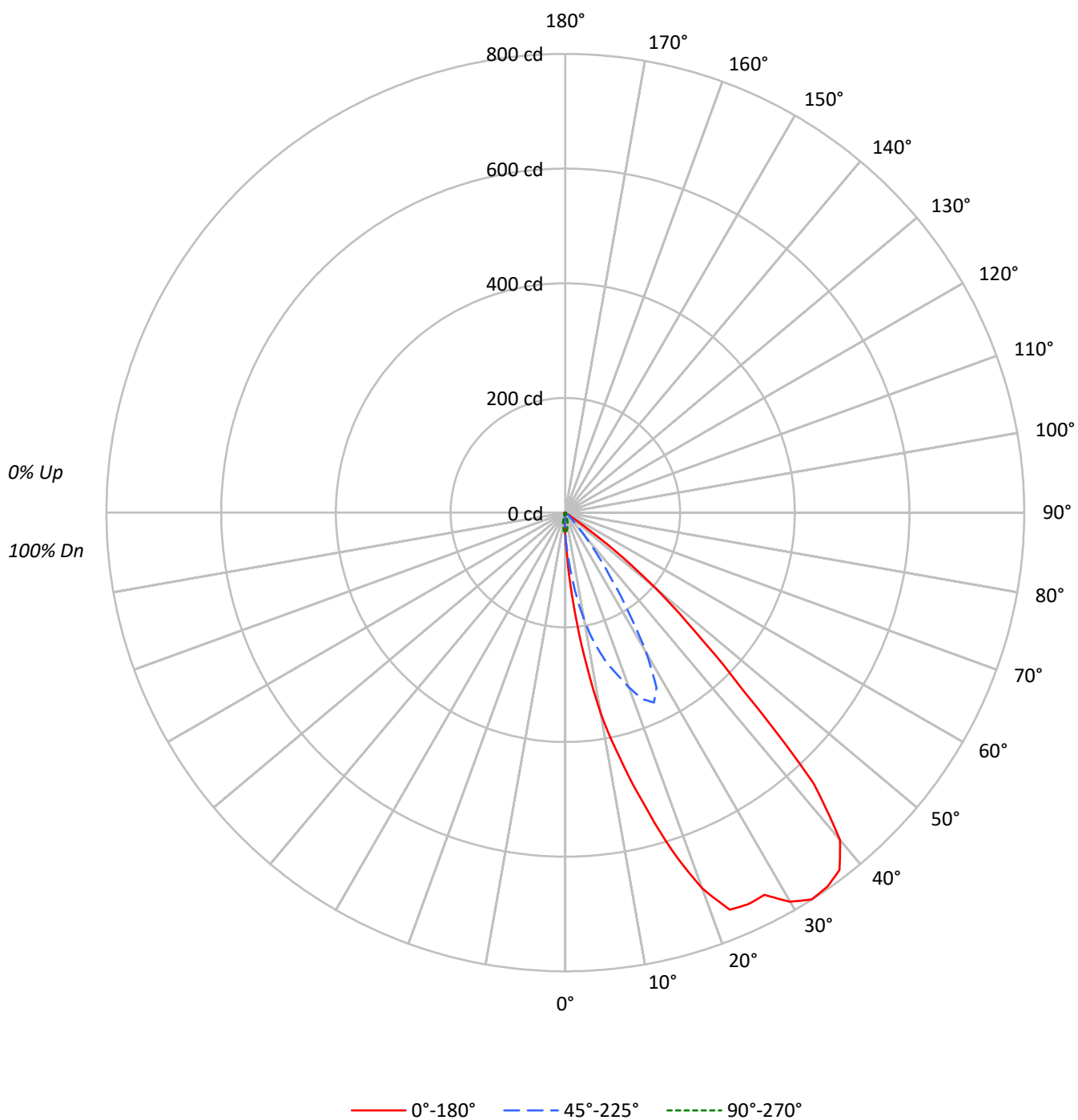
Lumens per Lamp: N/A
Luminaire Lumens: 294.9 lumens
Efficiency: N/A
Efficacy: 26.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	56	56	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7653	7653	7653	7653	7653
5°	34515	22012	6868	2641	1915
10°	79157	42529	4832	935	713
15°	118798	60341	2997	499	454
20°	162671	75630	1750	280	350
25°	182357	88384	895	242	290
30°	198360	71327	380	177	304
35°	213190	36513	134	268	402
40°	213257	14570	57	286	487
45°	136169	4869	155	465	682
50°	70684	580	239	580	853
55°	6117	76	268	765	1032
60°	219	88	307	877	1184
65°	259	104	519	882	1297
70°	128	128	641	962	1282
75°	169	169	593	1017	1440
80°	253	253	884	884	1263
85°	0	503	1761	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 136169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	2.3
10°-20°	39.9	13.5
20°-30°	87.4	29.7
30°-40°	99.6	33.8
40°-50°	52.5	17.8
50°-60°	6.2	2.1
60°-70°	1.1	0.4
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°	134.2	45.5
0°-40°	233.8	79.3
0°-60°	292.5	99.2
0°-90°	294.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	294.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	157	100	31	12	9	21
15°	523	266	13	2	2	154
25°	754	365	4	1	1	347
35°	796	136	0	1	2	494
45°	439	16	0	2	2	354
55°	16	0	1	2	3	50
65°	0	0	1	2	2	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°	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9
2.5°	77.8	77.8	77.5	75.3	75.0	74.8	70.8	69.8	65.1	61.8	47.1
5°	156.8	153.3	153.1	149.1	142.4	133.4	127.7	118.4	109.5	100.0	58.1
7.5°	249.8	252.8	244.6	240.4	225.4	214.7	198.2	183.8	163.6	144.6	67.1
10°	355.5	350.3	342.1	333.9	317.6	298.4	274.0	248.3	219.2	191.0	72.1
12.5°	438.1	431.3	426.4	415.1	399.2	374.5	345.3	310.9	272.3	231.6	71.8
15°	523.3	516.6	505.4	495.4	471.7	444.1	412.4	367.0	319.6	265.8	66.6
17.5°	617.1	608.4	595.9	580.7	557.7	527.1	486.9	431.6	364.5	293.7	57.1
20°	697.1	691.9	679.4	661.5	639.0	609.1	562.7	501.4	419.6	324.1	45.4
22.5°	749.5	744.7	736.3	720.6	703.6	671.7	629.3	562.0	465.7	351.8	34.4
25°	753.7	751.7	749.5	744.2	734.0	711.3	669.9	597.4	494.4	365.3	25.4
27.5°	751.5	750.7	750.2	747.5	740.8	718.3	675.9	602.6	490.7	344.3	18.7
30°	783.4	781.1	779.9	770.9	753.2	718.6	663.2	574.5	436.1	281.7	13.5
32.5°	799.6	799.1	797.9	789.1	764.2	719.1	641.8	506.4	345.8	203.5	9.2
35°	796.4	793.9	789.4	773.2	738.5	681.9	572.5	404.4	249.6	136.4	6.0
37.5°	785.4	779.7	770.9	741.8	695.6	618.3	464.3	297.7	169.8	88.3	3.5
40°	745.0	737.3	723.6	687.9	627.3	509.6	343.3	201.2	111.4	50.9	1.0
42.5°	640.5	630.6	620.6	580.7	511.4	380.0	225.9	124.4	63.6	27.9	0.2
45°	439.1	426.6	412.9	384.0	328.4	230.1	134.4	70.1	32.9	15.7	0.2
47.5°	304.9	299.2	275.3	238.4	182.8	121.9	69.6	34.4	17.5	7.2	0.2
50°	207.2	200.7	172.8	137.1	97.2	58.3	31.9	17.2	7.7	1.7	0.2
52.5°	108.7	100.7	83.0	63.3	39.4	24.4	14.0	7.5	2.2	0.2	0.2
55°	16.0	14.7	12.0	9.7	8.7	6.7	4.0	1.7	0.2	0.2	0.5
57.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.5	0.2	0.2	0.2	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5
67.5°	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.7
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	0.5	0.7
75°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.7
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	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°	34.9	34.9	34.9	34.9	34.9
2.5°	34.4	25.4	19.7	17.0	16.7
5°	31.2	18.2	12.0	9.2	8.7
7.5°	26.4	12.7	7.0	5.0	4.7
10°	21.7	8.7	4.2	3.5	3.2
12.5°	17.2	5.7	3.0	2.7	2.5
15°	13.2	3.7	2.2	2.0	2.0
17.5°	10.0	2.5	1.7	1.7	1.7
20°	7.5	1.7	1.2	1.5	1.5
22.5°	5.2	1.2	1.0	1.2	1.2
25°	3.7	1.0	1.0	1.2	1.2
27.5°	2.5	0.7	0.7	1.0	1.2
30°	1.5	0.5	0.7	1.0	1.2
32.5°	0.7	0.5	0.7	1.2	1.2
35°	0.5	0.7	1.0	1.2	1.5
37.5°	0.2	0.7	1.0	1.5	1.5
40°	0.2	0.7	1.0	1.5	1.7
42.5°	0.5	1.0	1.2	1.7	2.0
45°	0.5	1.0	1.5	2.0	2.2
47.5°	0.5	1.0	1.7	2.2	2.2
50°	0.7	1.2	1.7	2.2	2.5
52.5°	0.7	1.2	1.7	2.5	2.7
55°	0.7	1.2	2.0	2.5	2.7
57.5°	0.7	1.5	2.0	2.5	2.7
60°	0.7	1.2	2.0	2.5	2.7
62.5°	1.0	1.2	1.7	2.5	2.5
65°	1.0	1.2	1.7	2.5	2.5
67.5°	1.0	1.2	1.7	2.2	2.2
70°	1.0	1.2	1.5	2.0	2.0
72.5°	1.0	1.2	1.5	1.7	2.0
75°	0.7	1.0	1.2	1.5	1.7
77.5°	0.7	1.0	1.0	1.5	1.5
80°	0.7	0.7	0.7	1.0	1.0
82.5°	0.7	0.7	0.5	0.7	0.7
85°	0.7	0.5	0.5	0.5	0.5
87.5°	0.5	0.5	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)