

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: P1346076

Luminaire Tested: P3A13R409827DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1346076
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: P3A13R409827DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

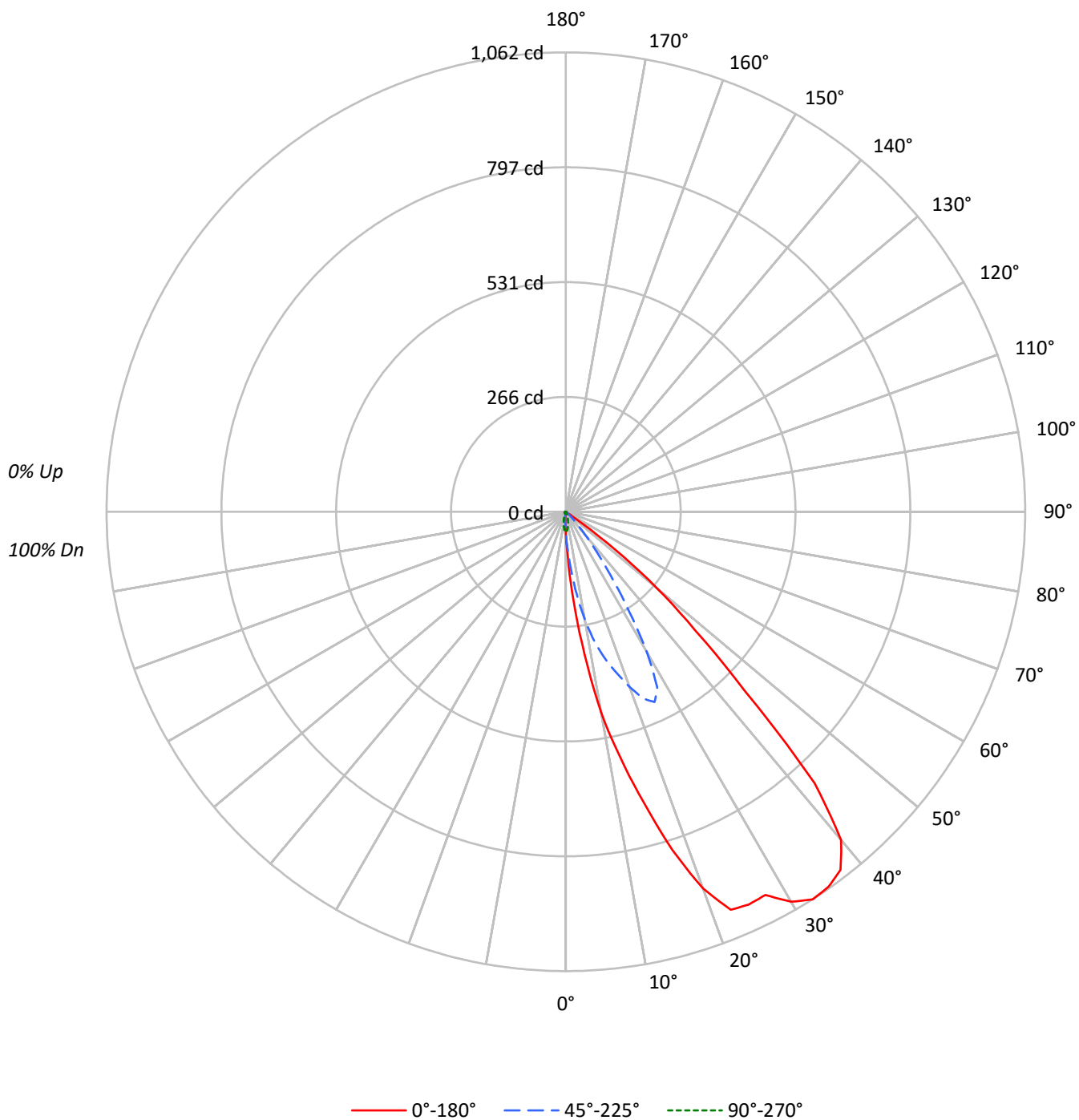
Lumens per Lamp: N/A
Luminaire Lumens: 392.0 lumens
Efficiency: N/A
Efficacy: 27.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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°	10175	10175	10175	10175	10175
5°	45873	29254	9113	3500	2553
10°	105208	56512	6413	1247	957
15°	157867	80182	3995	681	613
20°	216155	100505	2310	397	467
25°	242337	117442	1210	315	411
30°	263585	94799	506	253	430
35°	283272	48506	187	348	535
40°	283388	19351	86	372	658
45°	180918	6481	217	620	930
50°	93916	785	341	785	1126
55°	8105	115	382	1032	1376
60°	307	132	439	1184	1579
65°	363	156	675	1193	1712
70°	192	192	833	1282	1731
75°	254	254	847	1440	1949
80°	379	379	1263	1263	1642
85°	0	755	2516	1761	1761

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 180918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	2.3
10°-20°	53.1	13.5
20°-30°	116.2	29.6
30°-40°	132.4	33.8
40°-50°	69.8	17.8
50°-60°	8.2	2.1
60°-70°	1.5	0.4
70°-80°	1.2	0.3
80°-90°	0.6	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°	178.3	45.5
0°-40°	310.7	79.3
0°-60°	388.8	99.2
0°-90°	392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	392.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	46	46	46	46	46	
5°	208	133	41	16	12	28
15°	695	353	18	3	3	205
25°	1002	485	5	1	2	461
35°	1058	181	1	1	2	656
45°	583	21	1	2	3	470
55°	21	0	1	3	4	66
65°	1	0	1	2	3	1
75°	0	0	1	2	2	0
85°	0	0	1	1	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°	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
2.5°	103.4	103.4	103.0	100.1	99.7	99.4	94.1	92.8	86.5	82.2	62.6
5°	208.4	203.8	203.4	198.1	189.2	177.3	169.6	157.4	145.4	132.9	77.2
7.5°	332.0	335.9	325.0	319.4	299.5	285.3	263.4	244.2	217.3	192.2	89.1
10°	472.5	465.5	454.6	443.6	422.1	396.6	364.1	330.0	291.2	253.8	95.7
12.5°	582.1	573.2	566.5	551.6	530.4	497.6	458.9	413.1	361.8	307.8	95.4
15°	695.4	686.5	671.6	658.3	626.8	590.1	548.0	487.7	424.7	353.2	88.5
17.5°	820.0	808.4	791.8	771.6	741.1	700.4	647.1	573.5	484.4	390.3	75.9
20°	926.3	919.4	902.8	879.0	849.2	809.4	747.8	666.3	557.6	430.7	60.3
22.5°	995.9	989.6	978.4	957.5	935.0	892.6	836.2	746.8	618.9	467.5	45.7
25°	1001.6	998.9	995.9	989.0	975.4	945.2	890.2	793.8	657.0	485.4	33.8
27.5°	998.6	997.6	996.9	993.3	984.3	954.5	898.2	800.8	652.0	457.5	24.8
30°	1041.0	1038.0	1036.3	1024.4	1000.9	954.8	881.3	763.3	579.5	374.4	17.9
32.5°	1062.5	1061.9	1060.2	1048.6	1015.5	955.5	852.8	672.9	459.5	270.4	12.3
35°	1058.2	1054.9	1048.9	1027.4	981.3	906.1	760.7	537.4	331.6	181.2	8.0
37.5°	1043.6	1036.0	1024.4	985.7	924.4	821.7	616.9	395.6	225.6	117.3	4.6
40°	990.0	979.7	961.5	914.1	833.6	677.2	456.2	267.4	148.1	67.6	1.3
42.5°	851.1	837.9	824.6	771.6	679.5	504.9	300.2	165.3	84.5	37.1	0.3
45°	583.4	566.9	548.7	510.2	436.3	305.8	178.6	93.1	43.7	20.9	0.3
47.5°	405.2	397.6	365.8	316.7	242.9	162.0	92.4	45.7	23.2	9.6	0.3
50°	275.3	266.7	229.6	182.2	129.2	77.5	42.4	22.9	10.3	2.3	0.3
52.5°	144.5	133.8	110.3	84.2	52.3	32.5	18.6	9.9	3.0	0.3	0.3
55°	21.2	19.5	15.9	12.9	11.6	8.9	5.3	2.3	0.3	0.3	0.7
57.5°	0.7	0.7	0.7	0.7	1.0	1.0	0.7	0.3	0.3	0.3	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7
67.5°	0.7	0.7	0.7	0.7	0.3	0.3	0.3	0.3	0.3	0.7	1.0
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	1.0
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	1.0
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.7
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°	46.4	46.4	46.4	46.4	46.4
2.5°	45.7	33.8	26.2	22.5	22.2
5°	41.4	24.2	15.9	12.3	11.6
7.5°	35.1	16.9	9.3	6.6	6.3
10°	28.8	11.6	5.6	4.6	4.3
12.5°	22.9	7.6	4.0	3.6	3.3
15°	17.6	5.0	3.0	2.7	2.7
17.5°	13.3	3.3	2.3	2.3	2.3
20°	9.9	2.3	1.7	2.0	2.0
22.5°	7.0	1.7	1.3	1.7	1.7
25°	5.0	1.3	1.3	1.7	1.7
27.5°	3.3	1.0	1.0	1.3	1.7
30°	2.0	0.7	1.0	1.3	1.7
32.5°	1.0	0.7	1.0	1.7	1.7
35°	0.7	1.0	1.3	1.7	2.0
37.5°	0.3	1.0	1.3	2.0	2.0
40°	0.3	1.0	1.3	2.0	2.3
42.5°	0.7	1.3	1.7	2.3	2.7
45°	0.7	1.3	2.0	2.7	3.0
47.5°	0.7	1.3	2.3	3.0	3.0
50°	1.0	1.7	2.3	3.0	3.3
52.5°	1.0	1.7	2.3	3.3	3.6
55°	1.0	1.7	2.7	3.3	3.6
57.5°	1.0	2.0	2.7	3.3	3.6
60°	1.0	1.7	2.7	3.3	3.6
62.5°	1.3	1.7	2.3	3.3	3.3
65°	1.3	1.7	2.3	3.3	3.3
67.5°	1.3	1.7	2.3	3.0	3.0
70°	1.3	1.7	2.0	2.7	2.7
72.5°	1.3	1.7	2.0	2.3	2.7
75°	1.0	1.3	1.7	2.0	2.3
77.5°	1.0	1.3	1.3	2.0	2.0
80°	1.0	1.0	1.0	1.3	1.3
82.5°	1.0	1.0	0.7	1.0	1.0
85°	1.0	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)