

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: P1344893

Luminaire Tested: P3A13R309027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1344893
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: P3A13R309027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

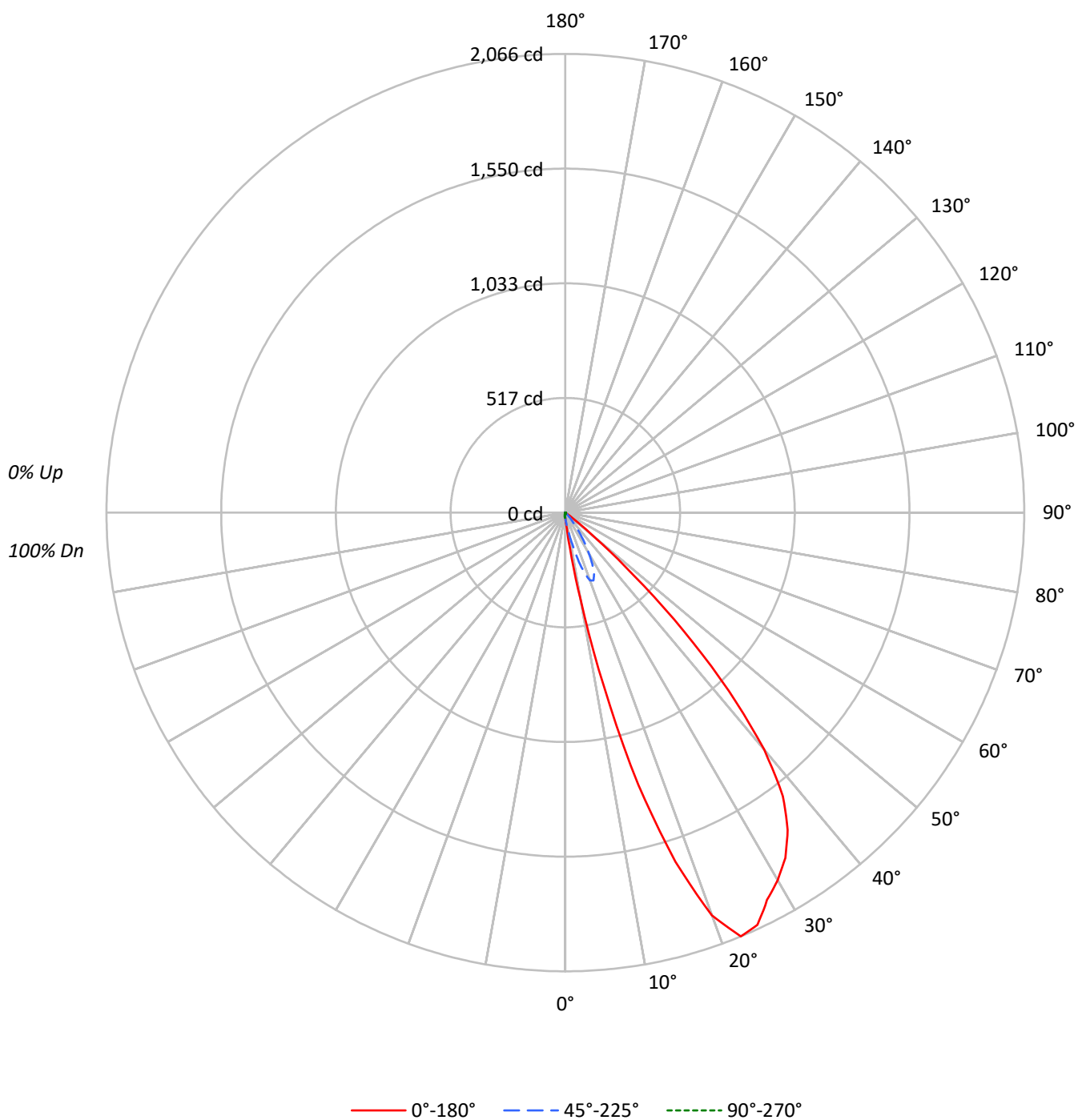
Lumens per Lamp: N/A
Luminaire Lumens: 486.9 lumens
Efficiency: N/A
Efficacy: 33.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	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	90	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		52	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°	5065	5065	5065	5065	5065
5°	15276	10191	4799	2157	1761
10°	88486	21598	3763	1002	690
15°	287811	48990	2633	204	91
20°	450372	75817	1657	0	0
25°	495488	74085	871	0	0
30°	483948	53401	329	0	0
35°	467096	30383	107	0	0
40°	398318	12853	0	0	0
45°	233761	4838	124	0	124
50°	56766	921	136	136	443
55°	4932	0	344	497	688
60°	175	0	395	570	965
65°	208	208	675	675	1141
70°	256	256	833	833	1154
75°	0	339	1101	1101	1101
80°	0	505	1642	1137	1137
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 233761 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.9
10°-20°	66.9	13.7
20°-30°	170.1	34.9
30°-40°	169.5	34.8
40°-50°	68.7	14.1
50°-60°	4.7	1.0
60°-70°	1.1	0.2
70°-80°	1.0	0.2
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°	241.3	49.6
0°-40°	410.8	84.4
0°-60°	484.2	99.4
0°-90°	486.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	486.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	23	23	23	23	23	
5°	69	46	22	10	8	16
15°	1268	216	12	1	0	369
25°	2048	306	4	0	0	925
35°	1745	114	0	0	0	1070
45°	754	16	0	0	0	575
55°	13	0	1	1	2	34
65°	0	0	1	1	2	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°	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
2.5°	38.3	38.7	38.7	37.8	37.4	37.4	36.0	35.6	34.3	32.9	28.5
5°	69.4	68.1	66.3	66.3	62.3	60.1	57.0	53.4	50.7	46.3	32.9
7.5°	157.5	146.9	143.7	139.7	124.6	112.6	98.8	86.8	75.7	66.3	36.5
10°	397.4	376.5	359.1	324.0	279.9	237.6	198.5	153.1	121.9	97.0	39.2
12.5°	800.6	772.5	739.2	675.1	592.7	487.3	393.8	294.1	206.5	142.8	40.1
15°	1267.8	1220.2	1168.1	1086.7	951.9	800.6	631.9	473.0	331.5	215.8	39.2
17.5°	1648.7	1630.1	1553.1	1441.8	1276.7	1081.8	874.0	656.8	447.2	282.6	36.5
20°	1930.0	1917.1	1824.1	1705.7	1519.7	1296.3	1032.4	771.6	527.8	324.9	32.5
22.5°	2065.7	2063.5	1996.3	1875.3	1678.1	1424.9	1134.3	837.9	552.7	330.6	27.1
25°	2047.9	2055.9	2017.7	1927.8	1738.6	1477.9	1164.6	837.9	534.5	306.2	22.7
27.5°	1966.9	1972.3	1948.2	1879.3	1703.0	1439.6	1122.3	784.1	481.5	263.0	18.7
30°	1911.3	1913.5	1883.7	1809.8	1622.9	1352.4	1022.6	684.4	401.4	210.9	13.8
32.5°	1843.7	1843.2	1808.5	1724.0	1517.9	1230.0	896.2	565.6	308.4	160.2	8.0
35°	1744.9	1733.7	1686.6	1589.1	1361.3	1065.3	734.7	430.8	222.1	113.5	4.9
37.5°	1609.1	1580.2	1513.5	1383.1	1141.4	835.3	544.7	302.6	151.7	75.2	3.1
40°	1391.5	1360.8	1270.0	1111.6	863.3	601.2	367.1	197.1	95.7	44.9	1.8
42.5°	1091.2	1070.2	947.9	789.9	570.1	383.6	220.7	116.6	53.8	25.8	0.4
45°	753.8	726.7	630.6	496.6	342.2	212.7	123.7	61.0	30.7	15.6	0.0
47.5°	416.1	382.7	327.1	257.2	172.2	111.7	62.3	32.9	17.4	7.6	0.0
50°	166.4	165.1	131.3	93.5	65.9	50.7	31.2	17.8	8.9	2.7	0.4
52.5°	58.3	58.3	50.3	40.9	32.0	23.1	15.6	8.5	3.1	0.9	0.4
55°	12.9	14.2	13.4	12.5	12.0	10.2	6.7	3.1	0.9	0.0	0.4
57.5°	1.3	1.3	1.3	1.8	2.2	2.2	1.8	0.9	0.0	0.0	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.9
62.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.9
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.9
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°	23.1	23.1	23.1	23.1	23.1
2.5°	23.1	18.2	15.1	13.4	12.9
5°	21.8	13.8	9.8	8.5	8.0
7.5°	19.6	10.2	6.7	5.3	4.9
10°	16.9	7.6	4.5	3.1	3.1
12.5°	14.2	5.8	2.7	1.3	0.9
15°	11.6	3.6	0.9	0.4	0.4
17.5°	8.9	2.2	0.0	0.0	0.0
20°	7.1	0.9	0.0	0.0	0.0
22.5°	5.3	0.4	0.0	0.0	0.0
25°	3.6	0.0	0.0	0.0	0.0
27.5°	2.2	0.0	0.0	0.0	0.0
30°	1.3	0.0	0.0	0.0	0.0
32.5°	0.4	0.0	0.0	0.0	0.0
35°	0.4	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°	0.4	0.0	0.0	0.4	0.4
47.5°	0.4	0.4	0.4	0.9	0.9
50°	0.4	0.4	0.4	0.9	1.3
52.5°	0.9	0.4	0.9	1.3	1.3
55°	0.9	0.9	1.3	1.8	1.8
57.5°	0.9	0.9	1.3	1.8	1.8
60°	0.9	0.9	1.3	1.8	2.2
62.5°	1.3	1.3	1.3	1.8	1.8
65°	1.3	1.3	1.3	1.8	2.2
67.5°	1.3	1.3	1.3	1.8	2.2
70°	1.3	1.3	1.3	1.8	1.8
72.5°	1.8	1.3	1.3	1.8	1.8
75°	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.3	0.9	1.3	1.3
80°	1.3	0.9	0.9	0.9	0.9
82.5°	1.3	0.9	0.9	0.9	0.9
85°	1.3	0.9	0.4	0.4	0.4
87.5°	1.3	0.9	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)