

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: P1345404

Luminaire Tested: P3A13R359027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345404
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: P3A13R359027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

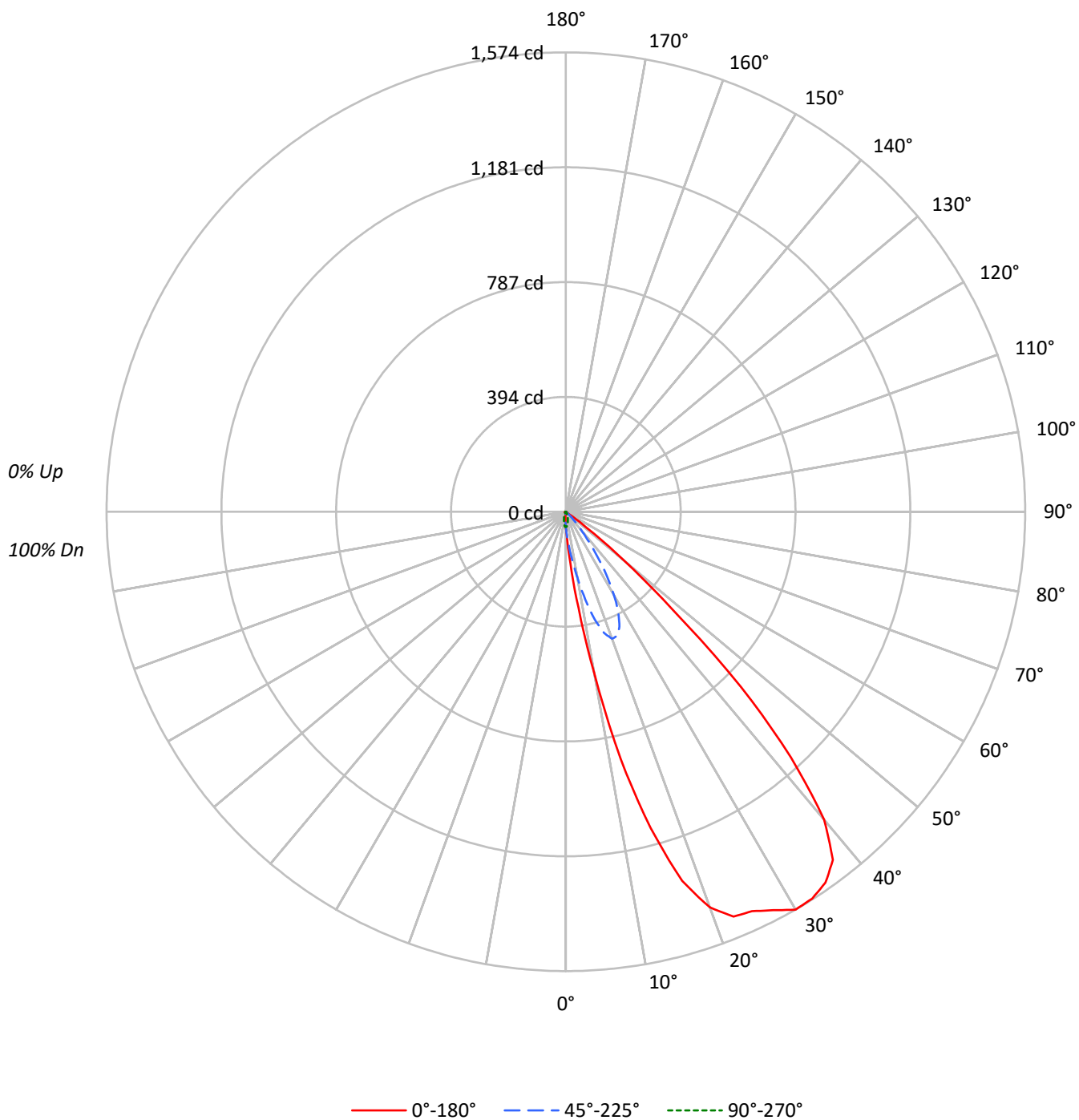
Lumens per Lamp: N/A
Luminaire Lumens: 494.9 lumens
Efficiency: N/A
Efficacy: 33.9 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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	51	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°	11403	11403	11403	11403	11403
5°	38829	25226	10654	4490	3324
10°	124959	51146	8417	1692	1091
15°	254599	86743	5948	613	409
20°	336683	108043	3827	210	210
25°	365319	105030	2153	97	218
30°	398517	83709	912	101	228
35°	415244	52093	241	107	241
40°	394053	22757	115	258	372
45°	263066	9086	124	403	682
50°	88219	1501	307	614	921
55°	4932	153	344	841	1185
60°	395	175	570	965	1360
65°	467	208	675	1141	1608
70°	256	256	833	1410	1731
75°	339	339	1101	1525	1864
80°	0	505	1642	1642	1642
85°	0	1006	3271	1006	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 263066 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	1.8
10°-20°	71.1	14.4
20°-30°	150.1	30.3
30°-40°	170.2	34.4
40°-50°	83.8	16.9
50°-60°	7.3	1.5
60°-70°	1.5	0.3
70°-80°	1.4	0.3
80°-90°	0.7	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°	230.2	46.5
0°-40°	400.4	80.9
0°-60°	491.4	99.3
0°-90°	494.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	494.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	176	115	48	20	15	29
15°	1122	382	26	3	2	319
25°	1510	434	9	0	1	703
35°	1551	195	1	0	1	956
45°	848	29	0	1	2	627
55°	13	0	1	2	3	51
65°	1	0	1	2	3	1
75°	0	0	1	2	2	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°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	90.2	92.4	91.5	91.1	90.6	88.9	84.9	84.4	80.4	77.8	64.4
5°	176.4	172.8	173.7	168.9	162.6	153.7	148.0	135.5	125.3	114.6	75.1
7.5°	332.4	327.5	318.1	303.9	289.3	270.2	241.3	218.2	191.5	166.2	83.5
10°	561.2	558.5	546.5	510.1	478.1	427.0	379.0	328.4	278.6	229.7	89.3
12.5°	866.9	848.7	826.9	778.5	715.4	651.4	556.8	469.2	389.7	307.9	89.8
15°	1121.5	1110.0	1079.3	1016.2	940.2	847.8	735.4	617.6	497.7	382.1	85.3
17.5°	1326.4	1308.6	1269.0	1207.3	1119.7	999.8	868.2	724.7	578.5	435.0	77.8
20°	1442.8	1433.5	1403.2	1341.5	1245.9	1114.9	965.1	798.0	629.2	463.0	68.0
22.5°	1501.4	1494.8	1472.6	1423.2	1333.9	1201.9	1030.4	836.3	643.9	459.9	57.8
25°	1509.9	1508.1	1489.0	1451.7	1377.0	1246.4	1058.9	843.4	631.9	434.1	48.0
27.5°	1539.2	1533.0	1510.3	1473.0	1397.9	1253.9	1049.1	818.9	593.2	388.8	40.0
30°	1573.9	1569.4	1546.8	1508.1	1419.2	1246.8	1014.4	764.7	531.4	330.6	29.8
32.5°	1571.2	1569.4	1550.3	1509.4	1404.1	1205.1	952.7	683.4	447.5	260.8	18.7
35°	1551.2	1545.0	1521.0	1457.9	1317.9	1097.5	835.4	573.2	354.1	194.6	12.0
37.5°	1503.2	1489.9	1449.4	1342.4	1163.7	931.8	680.3	442.6	250.6	130.2	7.6
40°	1376.6	1359.7	1278.4	1149.1	962.0	734.1	506.1	304.4	165.3	79.5	3.1
42.5°	1142.0	1107.7	1026.4	893.6	718.1	519.0	332.4	197.3	97.3	48.0	0.9
45°	848.3	822.0	736.7	616.3	470.6	332.8	201.3	106.6	53.8	29.3	0.4
47.5°	494.1	478.1	434.1	355.0	259.9	174.6	103.1	57.3	31.5	14.2	0.4
50°	258.6	238.6	205.3	155.5	114.6	80.4	50.2	30.7	15.6	4.4	0.4
52.5°	90.6	89.3	81.3	61.3	49.8	36.0	24.4	13.3	4.4	0.9	0.4
55°	12.9	12.9	12.0	13.3	14.2	12.9	8.4	3.6	0.9	0.4	0.4
57.5°	0.9	0.9	0.9	1.3	1.8	1.8	1.3	0.4	0.4	0.4	0.9
60°	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
62.5°	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9
65°	0.9	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°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.4	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°	52.0	52.0	52.0	52.0	52.0
2.5°	51.5	41.3	32.9	28.9	27.5
5°	48.4	31.1	20.4	16.0	15.1
7.5°	43.1	22.2	12.4	8.9	8.4
10°	37.8	16.0	7.6	5.3	4.9
12.5°	31.5	11.1	4.9	3.1	2.7
15°	26.2	7.6	2.7	2.2	1.8
17.5°	20.9	4.9	1.8	1.3	1.8
20°	16.4	3.1	0.9	0.9	0.9
22.5°	12.4	1.8	0.9	0.9	0.9
25°	8.9	0.9	0.4	0.4	0.9
27.5°	6.2	0.4	0.4	0.4	0.9
30°	3.6	0.4	0.4	0.4	0.9
32.5°	1.8	0.4	0.4	0.9	0.9
35°	0.9	0.4	0.4	0.9	0.9
37.5°	0.4	0.4	0.4	0.9	1.3
40°	0.4	0.4	0.9	1.3	1.3
42.5°	0.4	0.4	0.9	1.3	1.8
45°	0.4	0.9	1.3	1.8	2.2
47.5°	0.9	0.9	1.8	2.2	2.7
50°	0.9	1.3	1.8	2.7	2.7
52.5°	0.9	1.3	2.2	2.7	3.1
55°	0.9	1.8	2.2	3.1	3.1
57.5°	1.3	1.8	2.2	3.1	3.1
60°	1.3	1.8	2.2	3.1	3.1
62.5°	1.3	1.8	2.2	3.1	3.1
65°	1.3	1.8	2.2	3.1	3.1
67.5°	1.3	1.8	2.2	2.7	3.1
70°	1.3	1.8	2.2	2.7	2.7
72.5°	1.8	1.8	2.2	2.7	2.7
75°	1.3	1.8	1.8	2.2	2.2
77.5°	1.3	1.3	1.3	1.8	1.8
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	0.9	0.9	1.3	1.3
85°	1.3	0.9	0.4	0.9	0.9
87.5°	0.9	0.9	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)