

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: P1345916

Luminaire Tested: P3A13R409027DE010 E3A301WMH

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345916
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: P3A13R409027DE010 E3A301WMH
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 90CRI , E3A301WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

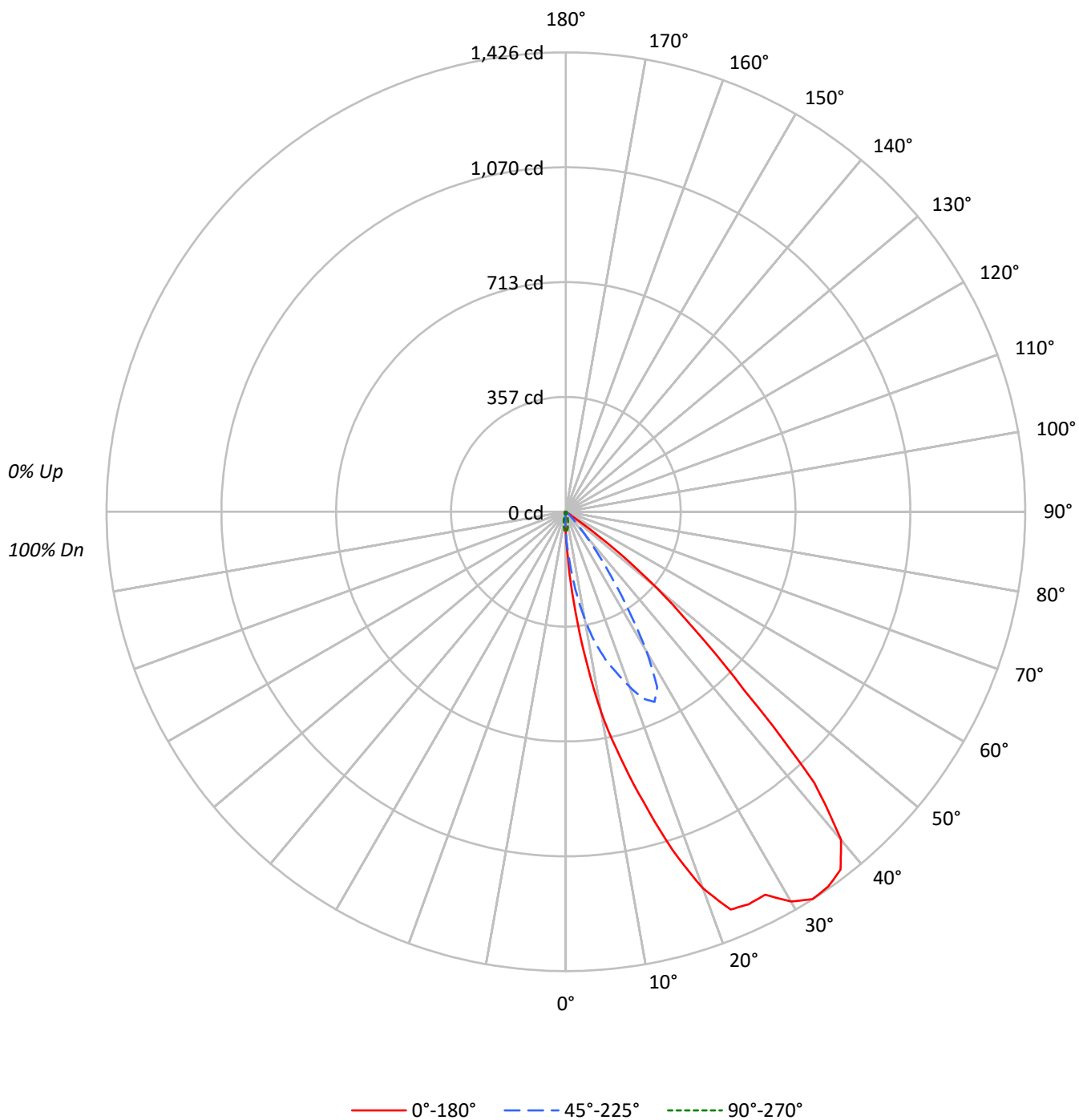
Lumens per Lamp: N/A
Luminaire Lumens: 525.9 lumens
Efficiency: N/A
Efficacy: 36.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	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	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	56	52	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°	13639	13639	13639	13639	13639
5°	61545	39247	12239	4689	3434
10°	141169	75817	8617	1692	1291
15°	211829	107583	5358	908	817
20°	290059	134855	3104	513	630
25°	325156	157582	1621	436	532
30°	353675	127209	684	329	557
35°	380096	65103	241	482	723
40°	380255	25963	115	515	887
45°	242785	8683	279	837	1240
50°	126017	1058	443	1058	1501
55°	10896	153	497	1376	1873
60°	395	175	570	1579	2149
65°	467	208	934	1608	2283
70°	256	256	1154	1731	2308
75°	339	339	1101	1864	2626
80°	505	505	1642	1642	2273
85°	0	1006	3271	2264	2264

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 242785 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	2.3
10°-20°	71.2	13.5
20°-30°	155.9	29.6
30°-40°	177.6	33.8
40°-50°	93.7	17.8
50°-60°	11.0	2.1
60°-70°	2.0	0.4
70°-80°	1.6	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°	239.2	45.5
0°-40°	416.9	79.3
0°-60°	521.6	99.2
0°-90°	525.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	525.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	280	178	56	21	16	38
15°	933	474	24	4	4	275
25°	1344	651	7	2	2	619
35°	1420	243	1	2	3	880
45°	783	28	1	3	4	631
55°	28	0	1	4	5	88
65°	1	0	2	3	4	1
75°	0	0	1	2	3	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°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
2.5°	138.7	138.7	138.3	134.3	133.8	133.4	126.3	124.5	116.0	110.3	84.0
5°	279.6	273.4	273.0	265.9	253.8	237.8	227.6	211.2	195.2	178.3	103.6
7.5°	445.5	450.8	436.1	428.6	401.9	382.8	353.4	327.6	291.6	257.8	119.6
10°	634.0	624.6	609.9	595.3	566.4	532.1	488.6	442.8	390.8	340.5	128.5
12.5°	781.1	769.1	760.2	740.2	711.7	667.7	615.7	554.4	485.5	413.0	128.0
15°	933.1	921.1	901.1	883.4	841.1	791.8	735.3	654.4	569.9	473.9	118.7
17.5°	1100.3	1084.7	1062.5	1035.4	994.5	939.8	868.2	769.5	650.0	523.7	101.8
20°	1243.0	1233.7	1211.4	1179.4	1139.4	1086.1	1003.4	894.0	748.2	577.9	80.9
22.5°	1336.4	1327.9	1312.8	1284.8	1254.6	1197.7	1122.1	1002.1	830.4	627.3	61.4
25°	1343.9	1340.4	1336.4	1327.0	1308.8	1268.3	1194.5	1065.2	881.6	651.3	45.3
27.5°	1339.9	1338.6	1337.7	1332.8	1320.8	1280.8	1205.2	1074.5	874.9	613.9	33.3
30°	1396.8	1392.8	1390.6	1374.6	1343.0	1281.2	1182.5	1024.3	777.5	502.4	24.0
32.5°	1425.7	1424.8	1422.6	1407.1	1362.6	1282.1	1144.3	902.9	616.6	362.8	16.4
35°	1419.9	1415.5	1407.5	1378.6	1316.8	1215.9	1020.7	721.1	445.0	243.2	10.7
37.5°	1400.4	1390.2	1374.6	1322.6	1240.3	1102.5	827.8	530.8	302.7	157.4	6.2
40°	1328.4	1314.6	1290.1	1226.6	1118.5	908.7	612.2	358.8	198.7	90.7	1.8
42.5°	1142.1	1124.3	1106.5	1035.4	911.8	677.5	402.8	221.8	113.4	49.8	0.4
45°	782.9	760.7	736.2	684.6	585.5	410.3	239.6	124.9	58.7	28.0	0.4
47.5°	543.7	533.5	490.8	425.0	325.9	217.4	124.0	61.4	31.1	12.9	0.4
50°	369.4	357.9	308.1	244.5	173.4	104.0	56.9	30.7	13.8	3.1	0.4
52.5°	193.8	179.6	148.0	112.9	70.2	43.6	24.9	13.3	4.0	0.4	0.4
55°	28.5	26.2	21.3	17.3	15.6	12.0	7.1	3.1	0.4	0.4	0.9
57.5°	0.9	0.9	0.9	0.9	1.3	1.3	0.9	0.4	0.4	0.4	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9
67.5°	0.9	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9	1.3
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	0.9	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°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	1.3
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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	1.3
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°	62.2	62.2	62.2	62.2	62.2
2.5°	61.4	45.3	35.1	30.2	29.8
5°	55.6	32.5	21.3	16.4	15.6
7.5°	47.1	22.7	12.4	8.9	8.4
10°	38.7	15.6	7.6	6.2	5.8
12.5°	30.7	10.2	5.3	4.9	4.4
15°	23.6	6.7	4.0	3.6	3.6
17.5°	17.8	4.4	3.1	3.1	3.1
20°	13.3	3.1	2.2	2.7	2.7
22.5°	9.3	2.2	1.8	2.2	2.2
25°	6.7	1.8	1.8	2.2	2.2
27.5°	4.4	1.3	1.3	1.8	2.2
30°	2.7	0.9	1.3	1.8	2.2
32.5°	1.3	0.9	1.3	2.2	2.2
35°	0.9	1.3	1.8	2.2	2.7
37.5°	0.4	1.3	1.8	2.7	2.7
40°	0.4	1.3	1.8	2.7	3.1
42.5°	0.9	1.8	2.2	3.1	3.6
45°	0.9	1.8	2.7	3.6	4.0
47.5°	0.9	1.8	3.1	4.0	4.0
50°	1.3	2.2	3.1	4.0	4.4
52.5°	1.3	2.2	3.1	4.4	4.9
55°	1.3	2.2	3.6	4.4	4.9
57.5°	1.3	2.7	3.6	4.4	4.9
60°	1.3	2.2	3.6	4.4	4.9
62.5°	1.8	2.2	3.1	4.4	4.4
65°	1.8	2.2	3.1	4.4	4.4
67.5°	1.8	2.2	3.1	4.0	4.0
70°	1.8	2.2	2.7	3.6	3.6
72.5°	1.8	2.2	2.7	3.1	3.6
75°	1.3	1.8	2.2	2.7	3.1
77.5°	1.3	1.8	1.8	2.7	2.7
80°	1.3	1.3	1.3	1.8	1.8
82.5°	1.3	1.3	0.9	1.3	1.3
85°	1.3	0.9	0.9	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)