

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: P1345928

Luminaire Tested: P3A13R409030D2WDE010 E3A301H

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345928
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: P3A13R409030D2WDE010 E3A301H
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3A301H TRIM
Light Source: -
Ballast/Driver: -

Summary

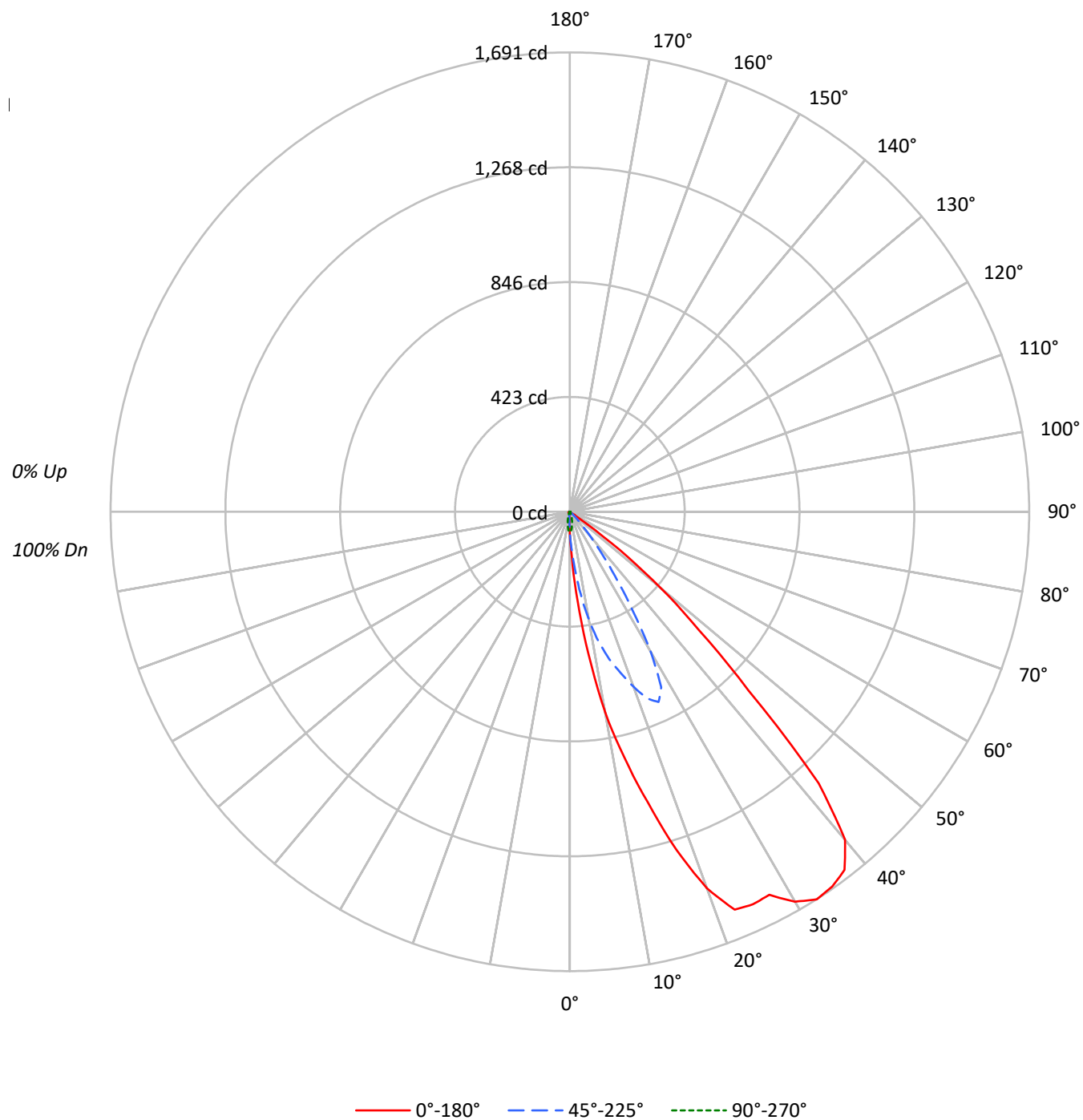
Lumens per Lamp: N/A
Luminaire Lumens: 624.0 lumens
Efficiency: N/A
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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°	16183	16183	16183	16183	16183
5°	73013	46555	14506	5569	4072
10°	167465	89956	10220	2004	1536
15°	251307	127628	6356	1067	953
20°	344103	159987	3687	607	747
25°	385740	186930	1911	508	629
30°	419584	150909	810	405	658
35°	450928	77229	294	562	857
40°	451102	30801	143	601	1059
45°	287999	10296	341	992	1458
50°	149522	1262	546	1262	1808
55°	12922	191	612	1606	2217
60°	482	219	702	1842	2544
65°	571	259	1090	1920	2750
70°	321	321	1346	2052	2693
75°	424	424	1356	2203	3135
80°	631	631	2020	2020	2652
85°	0	1258	4026	2768	2768

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 287999 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.4	2.3
10°-20°	84.5	13.5
20°-30°	185.0	29.6
30°-40°	210.7	33.8
40°-50°	111.2	17.8
50°-60°	13.1	2.1
60°-70°	2.4	0.4
70°-80°	1.9	0.3
80°-90°	0.9	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°	283.8	45.5
0°-40°	494.5	79.3
0°-60°	618.8	99.2
0°-90°	624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	624.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	74	74	74	74	74	
5°	332	212	66	25	18	45
15°	1107	562	28	5	4	326
25°	1594	773	8	2	3	735
35°	1684	288	1	2	3	1044
45°	929	33	1	3	5	749
55°	34	0	2	4	6	105
65°	1	0	2	4	5	1
75°	0	0	2	3	4	1
85°	0	0	2	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°	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
2.5°	164.5	164.5	164.0	159.3	158.7	158.2	149.8	147.7	137.6	130.8	99.7
5°	331.7	324.3	323.8	315.4	301.1	282.2	270.0	250.5	231.5	211.5	122.9
7.5°	528.4	534.8	517.4	508.4	476.8	454.1	419.3	388.7	346.0	305.9	141.9
10°	752.1	741.0	723.6	706.2	671.9	631.3	579.6	525.3	463.6	404.0	152.4
12.5°	926.6	912.4	901.8	878.1	844.4	792.1	730.4	657.7	575.9	489.9	151.9
15°	1107.0	1092.8	1069.0	1047.9	997.8	939.3	872.3	776.3	676.1	562.2	140.8
17.5°	1305.3	1286.8	1260.5	1228.3	1179.8	1114.9	1030.0	912.9	771.0	621.3	120.8
20°	1474.6	1463.5	1437.1	1399.2	1351.7	1288.4	1190.3	1060.6	887.6	685.6	96.0
22.5°	1585.3	1575.3	1557.4	1524.2	1488.3	1420.8	1331.1	1188.7	985.2	744.2	72.8
25°	1594.3	1590.1	1585.3	1574.3	1552.6	1504.7	1417.1	1263.6	1045.8	772.6	53.8
27.5°	1589.6	1588.0	1586.9	1581.1	1566.9	1519.4	1429.8	1274.7	1037.9	728.3	39.6
30°	1657.1	1652.3	1649.7	1630.7	1593.3	1519.9	1402.9	1215.1	922.4	596.0	28.5
32.5°	1691.4	1690.3	1687.7	1669.2	1616.5	1521.0	1357.5	1071.1	731.5	430.4	19.5
35°	1684.5	1679.2	1669.7	1635.4	1562.1	1442.4	1210.9	855.4	527.9	288.5	12.7
37.5°	1661.3	1649.2	1630.7	1569.0	1471.4	1307.9	982.0	629.7	359.2	186.7	7.4
40°	1575.9	1559.5	1530.5	1455.1	1326.9	1078.0	726.2	425.6	235.7	107.6	2.1
42.5°	1354.9	1333.8	1312.7	1228.3	1081.7	803.7	477.8	263.2	134.5	59.1	0.5
45°	928.7	902.4	873.4	812.2	694.6	486.8	284.3	148.2	69.6	33.2	0.5
47.5°	645.0	632.9	582.2	504.2	386.6	257.9	147.1	72.8	36.9	15.3	0.5
50°	438.3	424.6	365.5	290.1	205.7	123.4	67.5	36.4	16.3	3.7	0.5
52.5°	229.9	213.1	175.6	134.0	83.3	51.7	29.5	15.8	4.7	0.5	0.5
55°	33.8	31.1	25.3	20.6	18.5	14.2	8.4	3.7	0.5	0.5	1.1
57.5°	1.1	1.1	1.1	1.1	1.6	1.6	1.1	0.5	0.5	0.5	1.1
60°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1
65°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1
67.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1	1.6
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1
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°	73.8	73.8	73.8	73.8	73.8
2.5°	72.8	53.8	41.7	35.9	35.3
5°	65.9	38.5	25.3	19.5	18.5
7.5°	55.9	26.9	14.8	10.5	10.0
10°	45.9	18.5	9.0	7.4	6.9
12.5°	36.4	12.1	6.3	5.8	5.3
15°	28.0	7.9	4.7	4.2	4.2
17.5°	21.1	5.3	3.7	3.7	3.7
20°	15.8	3.7	2.6	3.2	3.2
22.5°	11.1	2.6	2.1	2.6	2.6
25°	7.9	2.1	2.1	2.6	2.6
27.5°	5.3	1.6	1.6	2.1	2.6
30°	3.2	1.1	1.6	2.1	2.6
32.5°	1.6	1.1	1.6	2.6	2.6
35°	1.1	1.6	2.1	2.6	3.2
37.5°	0.5	1.6	2.1	3.2	3.2
40°	0.5	1.6	2.1	3.2	3.7
42.5°	1.1	2.1	2.6	3.7	4.2
45°	1.1	2.1	3.2	4.2	4.7
47.5°	1.1	2.1	3.7	4.7	4.7
50°	1.6	2.6	3.7	4.7	5.3
52.5°	1.6	2.6	3.7	5.3	5.8
55°	1.6	2.6	4.2	5.3	5.8
57.5°	1.6	3.2	4.2	5.3	5.8
60°	1.6	2.6	4.2	5.3	5.8
62.5°	2.1	2.6	3.7	5.3	5.3
65°	2.1	2.6	3.7	5.3	5.3
67.5°	2.1	2.6	3.7	4.7	4.7
70°	2.1	2.6	3.2	4.2	4.2
72.5°	2.1	2.6	3.2	3.7	4.2
75°	1.6	2.1	2.6	3.2	3.7
77.5°	1.6	2.1	2.1	3.2	3.2
80°	1.6	1.6	1.6	2.1	2.1
82.5°	1.6	1.6	1.1	1.6	1.6
85°	1.6	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)