

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: P1345939

Luminaire Tested: P3A13R409030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345939
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 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R40 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

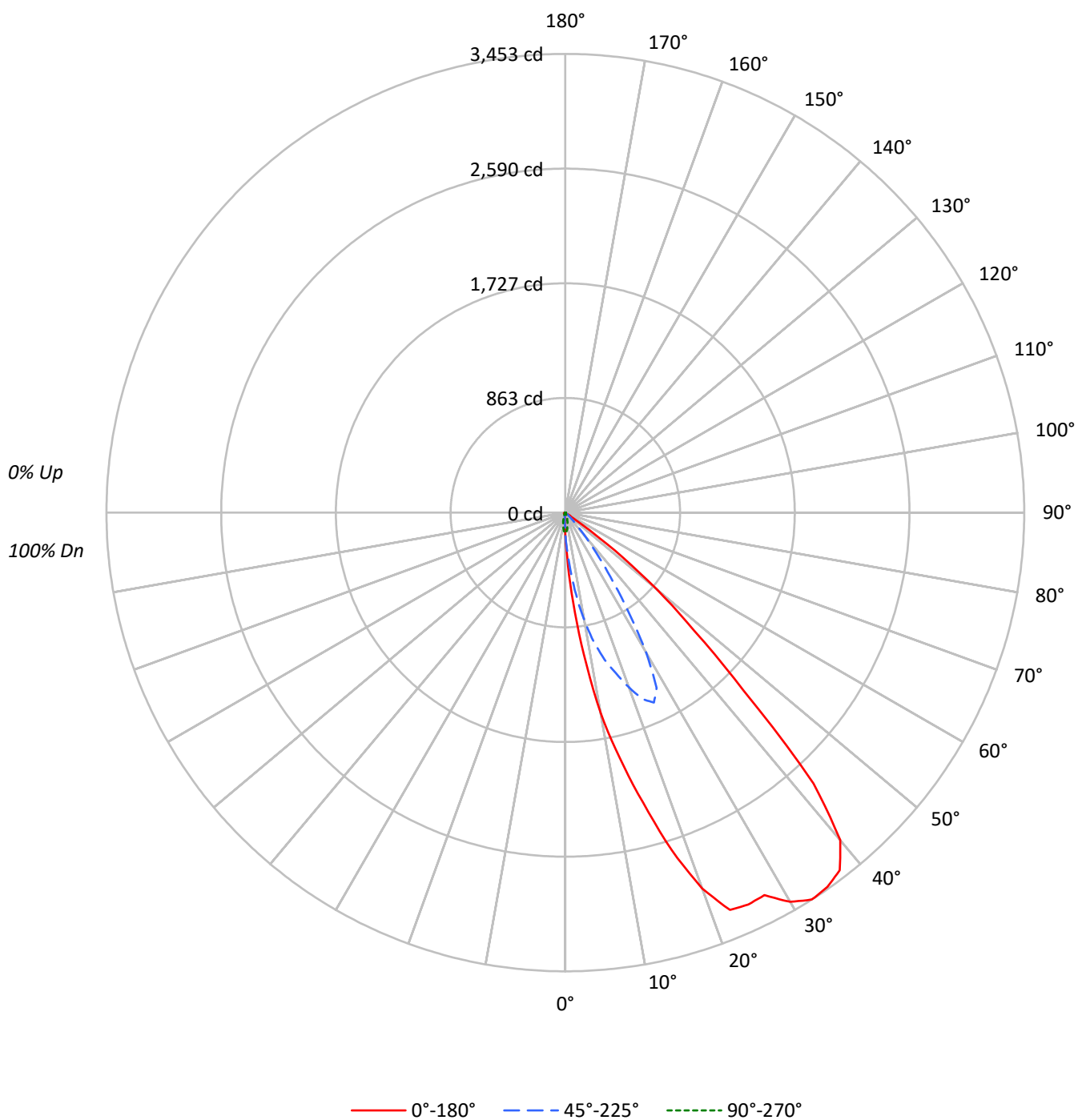
Lumens per Lamp: N/A
Luminaire Lumens: 1274.0 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
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	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°	33046	33046	33046	33046	33046
5°	149086	95047	29628	11380	8298
10°	341900	183653	20864	4075	3117
15°	513079	260569	12963	2202	1952
20°	702534	326648	7537	1260	1517
25°	787570	381675	3920	1040	1307
30°	856638	308073	1646	810	1367
35°	920647	157671	589	1151	1740
40°	920983	62889	315	1231	2147
45°	588030	21025	682	2016	3008
50°	305252	2559	1092	2559	3684
55°	26341	421	1223	3288	4511
60°	965	482	1403	3772	5175
65°	1141	571	2231	3891	5604
70°	705	705	2757	4167	5514
75°	932	932	2711	4575	6354
80°	1389	1389	4041	4041	5430
85°	0	2768	8051	5535	5535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 588030 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	2.3
10°-20°	172.4	13.5
20°-30°	377.6	29.6
30°-40°	430.2	33.8
40°-50°	227.0	17.8
50°-60°	26.8	2.1
60°-70°	4.8	0.4
70°-80°	4.0	0.3
80°-90°	1.8	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°	579.4	45.5
0°-40°	1009.7	79.2
0°-60°	1263.4	99.2
0°-90°	1274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1274.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	151	151	151	151	151	
5°	677	432	135	52	38	91
15°	2260	1148	57	10	9	666
25°	3255	1578	16	4	5	1500
35°	3439	589	2	4	6	2132
45°	1896	68	2	6	10	1529
55°	69	1	3	9	12	214
65°	2	1	4	8	11	2
75°	1	1	3	5	8	1
85°	0	1	3	2	2	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°	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7
2.5°	335.9	335.9	334.9	325.2	324.1	323.0	305.8	301.5	281.0	267.0	203.5
5°	677.3	662.2	661.1	643.9	614.8	576.1	551.3	511.5	472.7	431.8	250.9
7.5°	1078.9	1091.8	1056.3	1038.0	973.4	927.1	856.0	793.6	706.4	624.5	289.6
10°	1535.5	1512.9	1477.3	1441.8	1371.8	1288.9	1183.4	1072.5	946.5	824.8	311.2
12.5°	1891.9	1862.8	1841.3	1792.8	1723.9	1617.3	1491.3	1342.7	1175.8	1000.3	310.1
15°	2260.1	2231.1	2182.6	2139.5	2037.2	1917.7	1781.0	1585.0	1380.4	1147.8	287.5
17.5°	2665.0	2627.3	2573.5	2507.8	2408.7	2276.3	2102.9	1863.9	1574.2	1268.4	246.6
20°	3010.6	2988.0	2934.2	2856.6	2759.7	2630.5	2430.3	2165.4	1812.2	1399.8	196.0
22.5°	3236.7	3216.3	3179.7	3111.8	3038.6	2900.8	2717.7	2427.0	2011.4	1519.3	148.6
25°	3255.1	3246.4	3236.7	3214.1	3170.0	3072.0	2893.3	2579.9	2135.2	1577.5	109.8
27.5°	3245.4	3242.1	3240.0	3228.1	3199.1	3102.2	2919.1	2602.5	2119.1	1487.0	80.8
30°	3383.2	3373.5	3368.1	3329.3	3252.9	3103.2	2864.2	2480.9	1883.3	1216.7	58.1
32.5°	3453.2	3451.0	3445.6	3408.0	3300.3	3105.4	2771.6	2186.9	1493.5	878.6	39.8
35°	3439.2	3428.4	3409.0	3339.0	3189.4	2944.9	2472.2	1746.5	1077.8	589.0	25.8
37.5°	3391.8	3367.0	3329.3	3203.4	3004.2	2670.4	2004.9	1285.7	733.3	381.2	15.1
40°	3217.4	3184.0	3124.8	2970.8	2709.1	2200.9	1482.7	868.9	481.3	219.7	4.3
42.5°	2766.2	2723.1	2680.1	2507.8	2208.4	1641.0	975.5	537.3	274.6	120.6	1.1
45°	1896.2	1842.3	1783.1	1658.2	1418.1	993.9	580.4	302.6	142.1	67.8	1.1
47.5°	1316.9	1292.1	1188.7	1029.4	789.3	526.5	300.4	148.6	75.4	31.2	1.1
50°	894.8	866.8	746.2	592.2	419.9	252.0	137.8	74.3	33.4	7.5	1.1
52.5°	469.5	435.0	358.6	273.5	170.1	105.5	60.3	32.3	9.7	1.1	1.1
55°	68.9	63.5	51.7	42.0	37.7	29.1	17.2	7.5	1.1	1.1	2.2
57.5°	2.2	2.2	2.2	2.2	3.2	3.2	2.2	1.1	1.1	1.1	2.2
60°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	2.2
62.5°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	2.2
65°	2.2	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	2.2
67.5°	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1	2.2	3.2
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.2
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	3.2
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	3.2
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	3.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2
82.5°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	2.2
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°	150.7	150.7	150.7	150.7	150.7
2.5°	148.6	109.8	85.1	73.2	72.1
5°	134.6	78.6	51.7	39.8	37.7
7.5°	114.1	54.9	30.1	21.5	20.5
10°	93.7	37.7	18.3	15.1	14.0
12.5°	74.3	24.8	12.9	11.8	10.8
15°	57.1	16.2	9.7	8.6	8.6
17.5°	43.1	10.8	7.5	7.5	7.5
20°	32.3	7.5	5.4	6.5	6.5
22.5°	22.6	5.4	4.3	5.4	5.4
25°	16.2	4.3	4.3	5.4	5.4
27.5°	10.8	3.2	3.2	4.3	5.4
30°	6.5	2.2	3.2	4.3	5.4
32.5°	3.2	2.2	3.2	5.4	5.4
35°	2.2	3.2	4.3	5.4	6.5
37.5°	1.1	3.2	4.3	6.5	6.5
40°	1.1	3.2	4.3	6.5	7.5
42.5°	2.2	4.3	5.4	7.5	8.6
45°	2.2	4.3	6.5	8.6	9.7
47.5°	2.2	4.3	7.5	9.7	9.7
50°	3.2	5.4	7.5	9.7	10.8
52.5°	3.2	5.4	7.5	10.8	11.8
55°	3.2	5.4	8.6	10.8	11.8
57.5°	3.2	6.5	8.6	10.8	11.8
60°	3.2	5.4	8.6	10.8	11.8
62.5°	4.3	5.4	7.5	10.8	10.8
65°	4.3	5.4	7.5	10.8	10.8
67.5°	4.3	5.4	7.5	9.7	9.7
70°	4.3	5.4	6.5	8.6	8.6
72.5°	4.3	5.4	6.5	7.5	8.6
75°	3.2	4.3	5.4	6.5	7.5
77.5°	3.2	4.3	4.3	6.5	6.5
80°	3.2	3.2	3.2	4.3	4.3
82.5°	3.2	3.2	2.2	3.2	3.2
85°	3.2	2.2	2.2	2.2	2.2
87.5°	2.2	2.2	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)