

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: P1345587

Luminaire Tested: P3A13R359830DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1345587
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: P3A13R359830DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

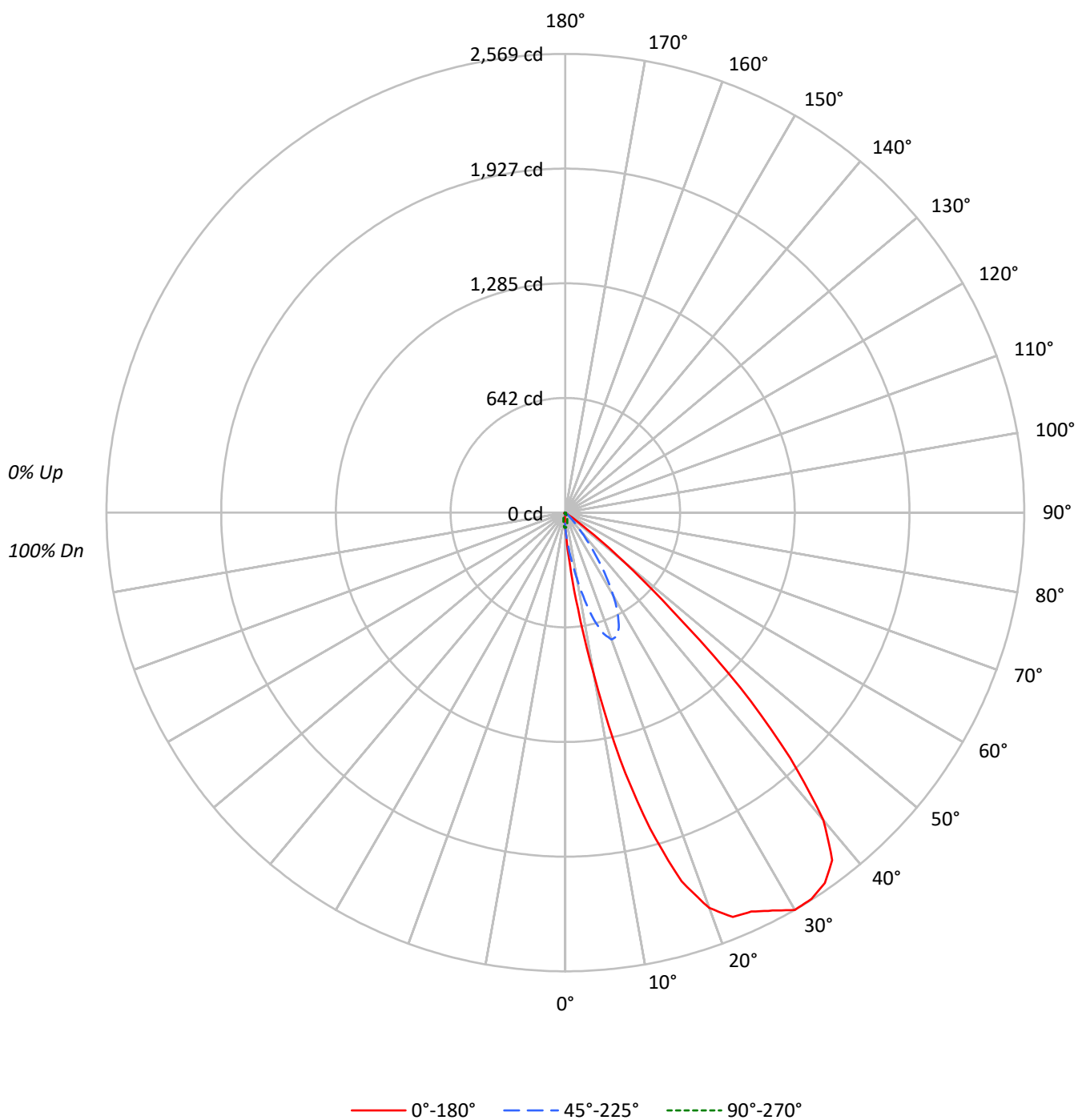
Lumens per Lamp: N/A
Luminaire Lumens: 808.0 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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	50	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°	18617	18617	18617	18617	18617
5°	63372	41184	17411	7352	5437
10°	203982	83499	13738	2739	1781
15°	415598	141613	9716	999	658
20°	549571	176369	6254	350	350
25°	596309	171445	3508	169	363
30°	650505	136629	1469	177	380
35°	677824	85046	402	187	402
40°	643205	37155	200	429	630
45°	429378	14854	217	682	1116
50°	143995	2490	512	989	1501
55°	8028	268	573	1376	1950
60°	658	307	965	1579	2237
65°	778	363	1141	1868	2646
70°	449	449	1410	2308	2821
75°	593	593	1864	2457	3050
80°	0	884	2778	2778	2778
85°	0	1761	5535	1761	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 429378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	1.8
10°-20°	116.0	14.4
20°-30°	244.9	30.3
30°-40°	277.9	34.4
40°-50°	136.8	16.9
50°-60°	11.9	1.5
60°-70°	2.4	0.3
70°-80°	2.2	0.3
80°-90°	1.1	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°	375.7	46.5
0°-40°	653.6	80.9
0°-60°	802.3	99.3
0°-90°	808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	808.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	85	85	85	85	85	
5°	288	187	79	33	25	47
15°	1831	624	43	4	3	520
25°	2465	709	14	1	2	1147
35°	2532	318	2	1	2	1561
45°	1385	48	1	2	4	1023
55°	21	1	2	4	5	83
65°	2	1	2	4	5	1
75°	1	1	2	3	4	0
85°	0	1	2	1	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°	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2.5°	147.2	150.9	149.4	148.7	148.0	145.1	138.5	137.8	131.3	126.9	105.2
5°	287.9	282.1	283.6	275.6	265.5	251.0	241.5	221.2	204.5	187.1	122.6
7.5°	542.5	534.6	519.3	496.1	472.2	441.0	393.8	356.1	312.6	271.3	136.4
10°	916.1	911.7	892.1	832.7	780.4	697.0	618.7	536.0	454.8	375.0	145.8
12.5°	1415.1	1385.3	1349.8	1270.7	1167.8	1063.3	908.8	765.9	636.1	502.6	146.5
15°	1830.7	1811.8	1761.8	1658.8	1534.8	1383.9	1200.4	1008.2	812.3	623.8	139.3
17.5°	2165.1	2136.0	2071.5	1970.7	1827.8	1632.0	1417.3	1183.0	944.4	710.1	126.9
20°	2355.1	2339.9	2290.5	2189.7	2033.8	1819.8	1575.4	1302.7	1027.0	755.8	111.0
22.5°	2450.8	2439.9	2403.7	2323.2	2177.4	1962.0	1682.0	1365.0	1051.0	750.7	94.3
25°	2464.6	2461.7	2430.5	2369.6	2247.7	2034.5	1728.4	1376.6	1031.4	708.6	78.3
27.5°	2512.5	2502.3	2465.3	2404.4	2281.8	2046.8	1712.5	1336.7	968.3	634.6	65.3
30°	2569.1	2561.8	2524.8	2461.7	2316.6	2035.2	1655.9	1248.3	867.5	539.6	48.6
32.5°	2564.7	2561.8	2530.6	2463.9	2292.0	1967.0	1555.1	1115.5	730.4	425.8	30.5
35°	2532.1	2521.9	2482.7	2379.7	2151.3	1791.5	1363.6	935.7	578.1	317.7	19.6
37.5°	2453.7	2432.0	2366.0	2191.2	1899.6	1521.0	1110.5	722.4	409.1	212.5	12.3
40°	2247.0	2219.5	2086.7	1875.7	1570.3	1198.2	826.1	496.8	269.8	129.8	5.1
42.5°	1864.1	1808.2	1675.5	1458.6	1172.1	847.2	542.5	322.0	158.8	78.3	1.5
45°	1384.6	1341.8	1202.6	1006.0	768.1	543.3	328.6	174.1	87.8	47.9	0.7
47.5°	806.5	780.4	708.6	579.5	424.3	285.0	168.3	93.6	51.5	23.2	0.7
50°	422.1	389.5	335.1	253.9	187.1	131.3	82.0	50.0	25.4	7.3	0.7
52.5°	148.0	145.8	132.7	100.1	81.2	58.8	39.9	21.8	7.3	1.5	0.7
55°	21.0	21.0	19.6	21.8	23.2	21.0	13.8	5.8	1.5	0.7	0.7
57.5°	1.5	1.5	1.5	2.2	2.9	2.9	2.2	0.7	0.7	0.7	1.5
60°	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5
62.5°	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5
65°	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2
77.5°	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.5
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°	84.9	84.9	84.9	84.9	84.9
2.5°	84.1	67.5	53.7	47.1	45.0
5°	79.1	50.8	33.4	26.1	24.7
7.5°	70.4	36.3	20.3	14.5	13.8
10°	61.7	26.1	12.3	8.7	8.0
12.5°	51.5	18.1	8.0	5.1	4.4
15°	42.8	12.3	4.4	3.6	2.9
17.5°	34.1	8.0	2.9	2.2	2.9
20°	26.8	5.1	1.5	1.5	1.5
22.5°	20.3	2.9	1.5	1.5	1.5
25°	14.5	1.5	0.7	0.7	1.5
27.5°	10.2	0.7	0.7	0.7	1.5
30°	5.8	0.7	0.7	0.7	1.5
32.5°	2.9	0.7	0.7	1.5	1.5
35°	1.5	0.7	0.7	1.5	1.5
37.5°	0.7	0.7	0.7	1.5	2.2
40°	0.7	0.7	1.5	2.2	2.2
42.5°	0.7	0.7	1.5	2.2	2.9
45°	0.7	1.5	2.2	2.9	3.6
47.5°	1.5	1.5	2.9	3.6	4.4
50°	1.5	2.2	2.9	4.4	4.4
52.5°	1.5	2.2	3.6	4.4	5.1
55°	1.5	2.9	3.6	5.1	5.1
57.5°	2.2	2.9	3.6	5.1	5.1
60°	2.2	2.9	3.6	5.1	5.1
62.5°	2.2	2.9	3.6	5.1	5.1
65°	2.2	2.9	3.6	5.1	5.1
67.5°	2.2	2.9	3.6	4.4	5.1
70°	2.2	2.9	3.6	4.4	4.4
72.5°	2.9	2.9	3.6	4.4	4.4
75°	2.2	2.9	2.9	3.6	3.6
77.5°	2.2	2.2	2.2	2.9	2.9
80°	2.2	2.2	2.2	2.2	2.2
82.5°	2.2	1.5	1.5	2.2	2.2
85°	2.2	1.5	0.7	1.5	1.5
87.5°	1.5	1.5	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)