

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: P1338015

Luminaire Tested: P3A05R309840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R309840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

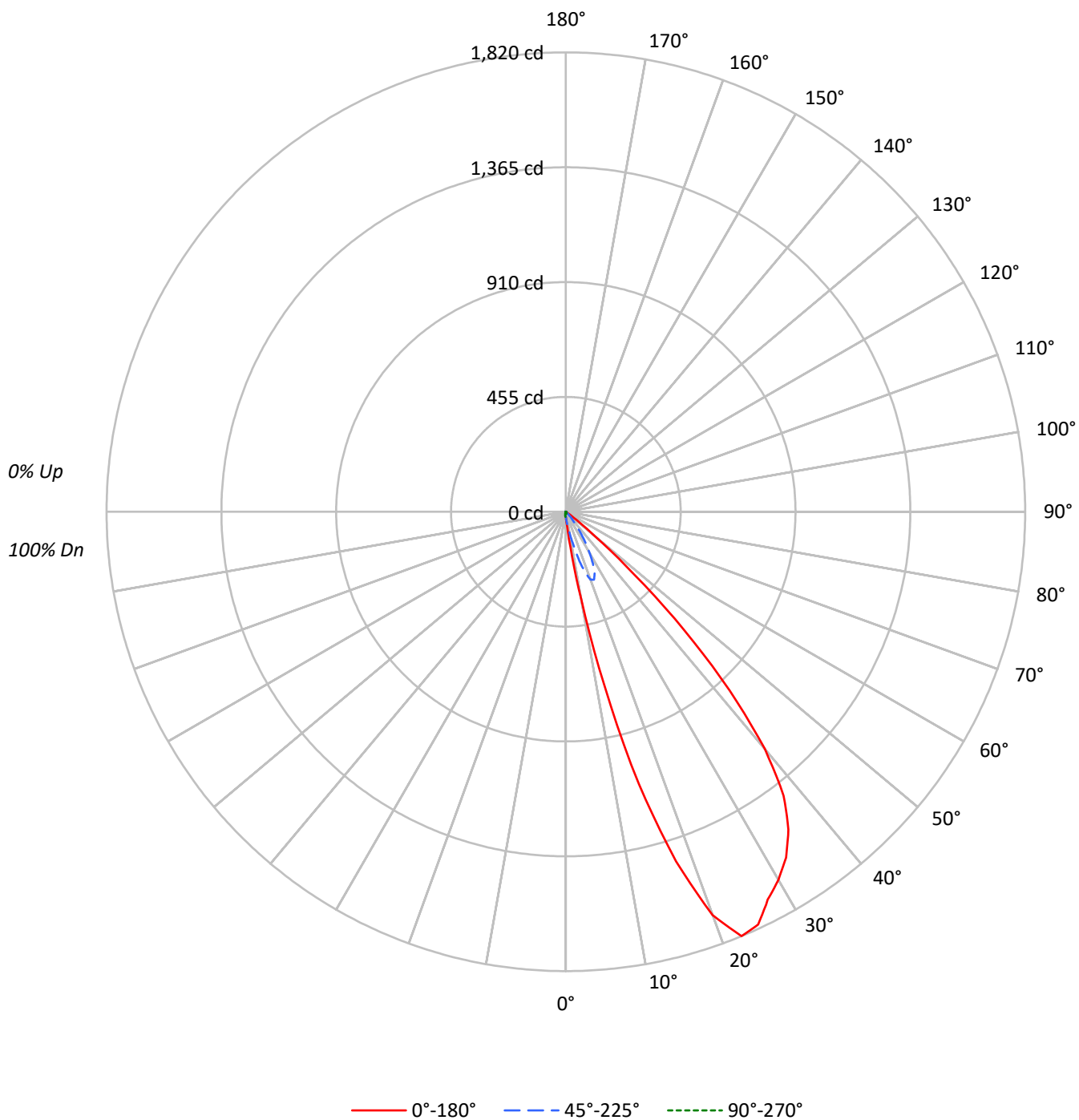
Lumens per Lamp: N/A
Luminaire Lumens: 429.1 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50		
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45		
9	66	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4473	4473	4473	4473	4473
5°	13471	8981	4226	1893	1563
10°	77954	19038	3318	868	601
15°	253532	43156	2316	182	91
20°	396724	66786	1470	0	0
25°	436477	65254	750	0	0
30°	426319	47045	304	0	0
35°	411470	26769	107	0	0
40°	350886	11336	0	0	0
45°	205944	4249	124	0	124
50°	50011	819	136	136	409
55°	4358	0	306	459	612
60°	175	0	351	526	877
65°	208	208	623	623	1038
70°	256	256	769	769	1026
75°	0	339	1017	1017	1017
80°	0	505	1515	1010	1010
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 205944 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.9
10°-20°	59.0	13.7
20°-30°	149.8	34.9
30°-40°	149.3	34.8
40°-50°	60.5	14.1
50°-60°	4.2	1.0
60°-70°	1.0	0.2
70°-80°	1.0	0.2
80°-90°	0.6	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°	212.5	49.5
0°-40°	361.9	84.3
0°-60°	426.6	99.4
0°-90°	429.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	429.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	61	41	19	9	7	14
15°	1117	190	10	1	0	325
25°	1804	270	3	0	0	815
35°	1537	100	0	0	0	942
45°	664	14	0	0	0	507
55°	11	0	1	1	2	30
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	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°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
2.5°	33.7	34.1	34.1	33.3	32.9	32.9	31.8	31.4	30.2	29.0	25.1
5°	61.2	60.0	58.4	58.4	54.9	52.9	50.2	47.0	44.7	40.8	29.0
7.5°	138.8	129.4	126.6	123.1	109.8	99.2	87.0	76.4	66.6	58.4	32.1
10°	350.1	331.6	316.4	285.4	246.6	209.3	174.8	134.9	107.4	85.5	34.5
12.5°	705.2	680.5	651.1	594.7	522.2	429.2	346.9	259.1	181.9	125.8	35.3
15°	1116.8	1074.9	1029.0	957.3	838.5	705.2	556.7	416.7	292.0	190.1	34.5
17.5°	1452.4	1435.9	1368.1	1270.1	1124.7	953.0	769.9	578.6	394.0	248.9	32.1
20°	1700.1	1688.8	1606.8	1502.6	1338.7	1141.9	909.5	679.7	464.9	286.2	28.6
22.5°	1819.7	1817.7	1758.5	1651.9	1478.3	1255.2	999.2	738.2	486.9	291.3	23.9
25°	1804.0	1811.1	1777.4	1698.2	1531.6	1301.9	1025.9	738.2	470.8	269.7	20.0
27.5°	1732.7	1737.4	1716.2	1655.4	1500.2	1268.1	988.6	690.7	424.2	231.7	16.5
30°	1683.7	1685.6	1659.4	1594.3	1429.7	1191.3	900.8	602.9	353.6	185.8	12.2
32.5°	1624.1	1623.7	1593.1	1518.6	1337.1	1083.5	789.5	498.2	271.7	141.1	7.1
35°	1537.1	1527.3	1485.7	1399.9	1199.2	938.5	647.2	379.5	195.6	100.0	4.3
37.5°	1417.5	1392.0	1333.2	1218.4	1005.5	735.8	479.8	266.6	133.7	66.2	2.7
40°	1225.8	1198.8	1118.8	979.2	760.5	529.6	323.4	173.7	84.3	39.6	1.6
42.5°	961.2	942.8	835.0	695.8	502.2	337.9	194.4	102.7	47.4	22.7	0.4
45°	664.1	640.1	555.5	437.5	301.5	187.4	109.0	53.7	27.0	13.7	0.0
47.5°	366.5	337.1	288.1	226.6	151.7	98.4	54.9	29.0	15.3	6.7	0.0
50°	146.6	145.4	115.6	82.3	58.0	44.7	27.4	15.7	7.8	2.4	0.4
52.5°	51.4	51.4	44.3	36.1	28.2	20.4	13.7	7.4	2.7	0.8	0.4
55°	11.4	12.5	11.8	11.0	10.6	9.0	5.9	2.7	0.8	0.0	0.4
57.5°	1.2	1.2	1.2	1.6	2.0	2.0	1.6	0.8	0.0	0.0	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.8
62.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.8
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.2
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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°	20.4	20.4	20.4	20.4	20.4
2.5°	20.4	16.1	13.3	11.8	11.4
5°	19.2	12.2	8.6	7.4	7.1
7.5°	17.2	9.0	5.9	4.7	4.3
10°	14.9	6.7	3.9	2.7	2.7
12.5°	12.5	5.1	2.4	1.2	0.8
15°	10.2	3.1	0.8	0.4	0.4
17.5°	7.8	2.0	0.0	0.0	0.0
20°	6.3	0.8	0.0	0.0	0.0
22.5°	4.7	0.4	0.0	0.0	0.0
25°	3.1	0.0	0.0	0.0	0.0
27.5°	2.0	0.0	0.0	0.0	0.0
30°	1.2	0.0	0.0	0.0	0.0
32.5°	0.4	0.0	0.0	0.0	0.0
35°	0.4	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.4	0.0	0.0	0.4	0.4
47.5°	0.4	0.4	0.4	0.8	0.8
50°	0.4	0.4	0.4	0.8	1.2
52.5°	0.8	0.4	0.8	1.2	1.2
55°	0.8	0.8	1.2	1.6	1.6
57.5°	0.8	0.8	1.2	1.6	1.6
60°	0.8	0.8	1.2	1.6	2.0
62.5°	1.2	1.2	1.2	1.6	1.6
65°	1.2	1.2	1.2	1.6	2.0
67.5°	1.2	1.2	1.2	1.6	2.0
70°	1.2	1.2	1.2	1.6	1.6
72.5°	1.6	1.2	1.2	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	0.8	1.2	1.2
80°	1.2	0.8	0.8	0.8	0.8
82.5°	1.2	0.8	0.8	0.8	0.8
85°	1.2	0.8	0.4	0.4	0.4
87.5°	1.2	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)