

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: P1337807

Luminaire Tested: P3A05R309027DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337807
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: P3A05R309027DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

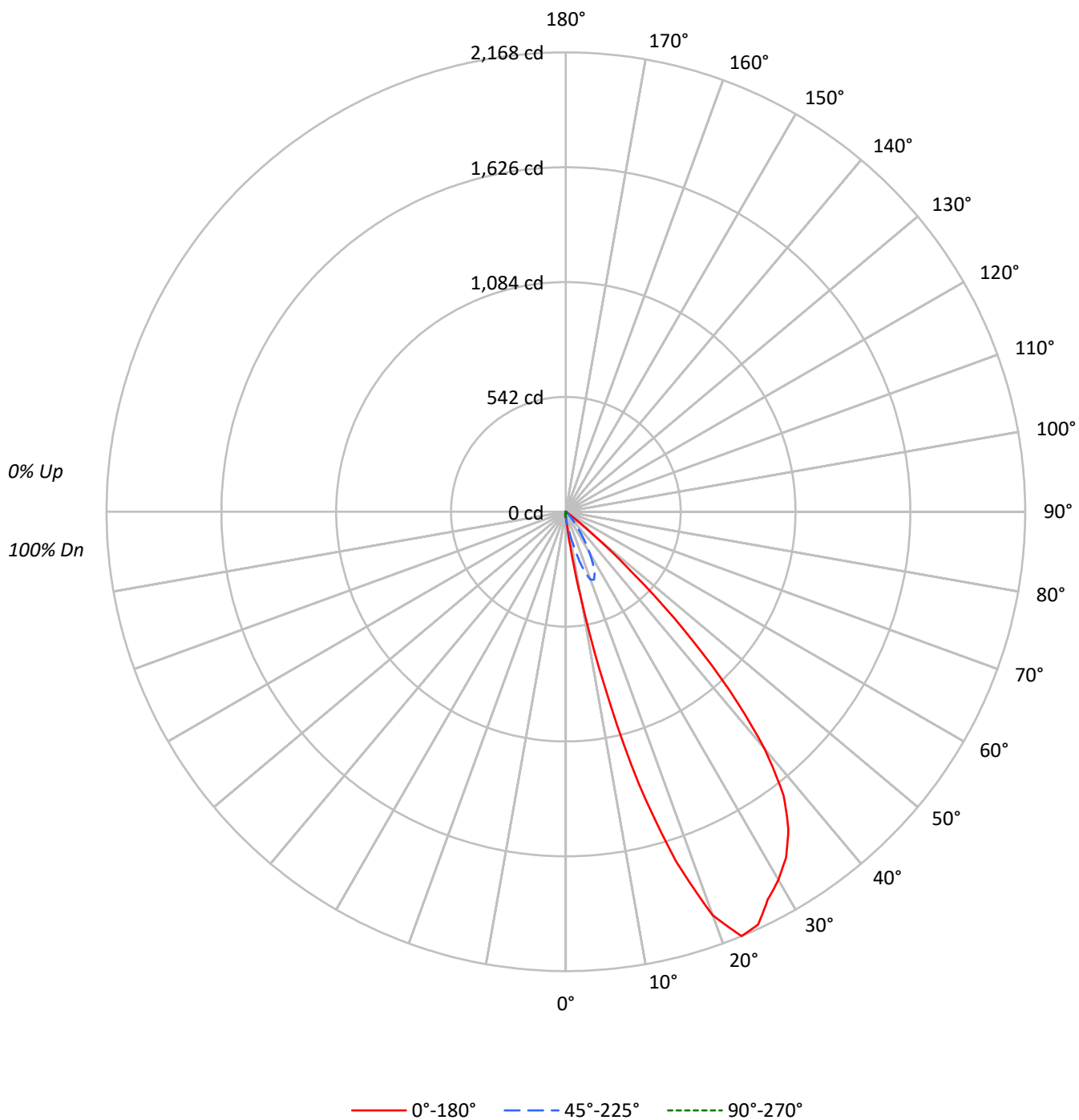
Lumens per Lamp: N/A
Luminaire Lumens: 511.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5329	5329	5329	5329	5329
5°	16025	10698	5041	2267	1849
10°	92851	22667	3941	1047	735
15°	301999	51419	2747	204	114
20°	472564	79550	1750	0	0
25°	519901	77738	895	0	0
30°	507800	56034	354	0	0
35°	490118	31882	134	0	0
40°	417954	13511	0	0	0
45°	245297	5055	155	0	155
50°	59563	955	171	171	478
55°	5161	0	344	535	726
60°	219	0	395	614	1009
65°	259	259	726	726	1193
70°	321	321	898	898	1218
75°	0	424	1186	1186	1186
80°	0	631	1768	1137	1137
85°	0	1258	3522	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 245297 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.9
10°-20°	70.2	13.7
20°-30°	178.5	34.9
30°-40°	177.9	34.8
40°-50°	72.1	14.1
50°-60°	5.0	1.0
60°-70°	1.1	0.2
70°-80°	1.1	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°	253.2	49.5
0°-40°	431.1	84.4
0°-60°	508.1	99.4
0°-90°	511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	511.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	73	49	23	10	8	17
15°	1330	226	12	1	0	387
25°	2149	321	4	0	0	970
35°	1831	119	0	0	0	1122
45°	791	16	0	0	0	603
55°	14	0	1	1	2	35
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°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
2.5°	40.2	40.6	40.6	39.7	39.2	39.2	37.8	37.4	36.0	34.6	29.9
5°	72.8	71.4	69.6	69.6	65.4	63.0	59.8	56.0	53.2	48.6	34.6
7.5°	165.3	154.1	150.8	146.6	130.7	118.1	103.7	91.1	79.4	69.6	38.3
10°	417.0	395.0	376.8	339.9	293.7	249.3	208.3	160.6	127.9	101.8	41.1
12.5°	840.0	810.6	775.6	708.3	622.0	511.3	413.2	308.6	216.7	149.9	42.0
15°	1330.3	1280.3	1225.7	1140.3	998.8	840.0	663.1	496.4	347.9	226.5	41.1
17.5°	1730.0	1710.4	1629.6	1512.9	1339.6	1135.1	917.1	689.2	469.3	296.5	38.3
20°	2025.1	2011.6	1914.0	1789.8	1594.6	1360.2	1083.3	809.7	553.8	340.9	34.1
22.5°	2167.5	2165.2	2094.7	1967.7	1760.8	1495.1	1190.2	879.2	579.9	346.9	28.5
25°	2148.8	2157.2	2117.1	2022.8	1824.3	1550.7	1222.0	879.2	560.8	321.3	23.8
27.5°	2063.9	2069.5	2044.3	1971.9	1787.0	1510.5	1177.6	822.7	505.2	276.0	19.6
30°	2005.5	2007.8	1976.5	1899.0	1702.9	1419.0	1073.0	718.1	421.2	221.3	14.5
32.5°	1934.5	1934.1	1897.6	1808.9	1592.7	1290.6	940.4	593.5	323.6	168.1	8.4
35°	1830.9	1819.2	1769.7	1667.4	1428.4	1117.8	770.9	452.0	233.0	119.1	5.1
37.5°	1688.4	1658.1	1588.1	1451.2	1197.7	876.4	571.5	317.5	159.2	78.9	3.3
40°	1460.1	1427.9	1332.6	1166.4	905.9	630.8	385.2	206.9	100.4	47.2	1.9
42.5°	1144.9	1123.0	994.6	828.8	598.1	402.5	231.6	122.3	56.5	27.1	0.5
45°	791.0	762.5	661.6	521.1	359.1	223.2	129.8	64.0	32.2	16.3	0.0
47.5°	436.6	401.6	343.2	269.9	180.7	117.2	65.4	34.6	18.2	7.9	0.0
50°	174.6	173.2	137.7	98.1	69.1	53.2	32.7	18.7	9.3	2.8	0.5
52.5°	61.2	61.2	52.8	43.0	33.6	24.3	16.3	8.9	3.3	0.9	0.5
55°	13.5	14.9	14.0	13.1	12.6	10.7	7.0	3.3	0.9	0.0	0.5
57.5°	1.4	1.4	1.4	1.9	2.3	2.3	1.9	0.9	0.0	0.0	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.9
62.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.9
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
75°	0.0	0.0	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	1.4
77.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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°	24.3	24.3	24.3	24.3	24.3
2.5°	24.3	19.1	15.9	14.0	13.5
5°	22.9	14.5	10.3	8.9	8.4
7.5°	20.5	10.7	7.0	5.6	5.1
10°	17.7	7.9	4.7	3.3	3.3
12.5°	14.9	6.1	2.8	1.4	0.9
15°	12.1	3.7	0.9	0.5	0.5
17.5°	9.3	2.3	0.0	0.0	0.0
20°	7.5	0.9	0.0	0.0	0.0
22.5°	5.6	0.5	0.0	0.0	0.0
25°	3.7	0.0	0.0	0.0	0.0
27.5°	2.3	0.0	0.0	0.0	0.0
30°	1.4	0.0	0.0	0.0	0.0
32.5°	0.5	0.0	0.0	0.0	0.0
35°	0.5	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°	0.5	0.0	0.0	0.5	0.5
47.5°	0.5	0.5	0.5	0.9	0.9
50°	0.5	0.5	0.5	0.9	1.4
52.5°	0.9	0.5	0.9	1.4	1.4
55°	0.9	0.9	1.4	1.9	1.9
57.5°	0.9	0.9	1.4	1.9	1.9
60°	0.9	0.9	1.4	1.9	2.3
62.5°	1.4	1.4	1.4	1.9	1.9
65°	1.4	1.4	1.4	1.9	2.3
67.5°	1.4	1.4	1.4	1.9	2.3
70°	1.4	1.4	1.4	1.9	1.9
72.5°	1.9	1.4	1.4	1.9	1.9
75°	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	0.9	1.4	1.4
80°	1.4	0.9	0.9	0.9	0.9
82.5°	1.4	0.9	0.9	0.9	0.9
85°	1.4	0.9	0.5	0.5	0.5
87.5°	1.4	0.9	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)