

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: P1336293

Luminaire Tested: P3A05R159024DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R159024DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

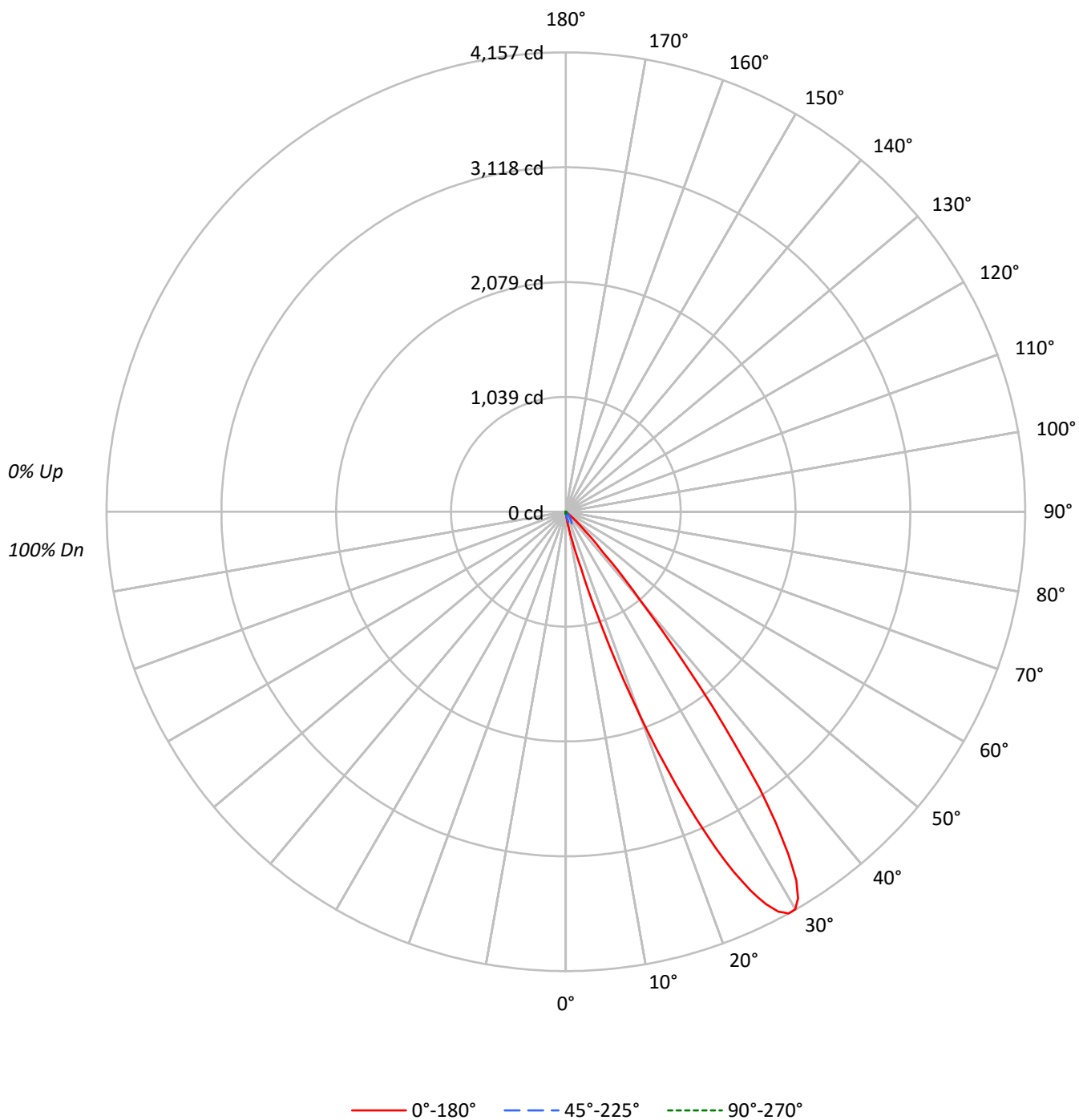
Lumens per Lamp: N/A
Luminaire Lumens: 454.0 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1336293

CATALOG NUMBER: P3A05R159024DE010 E3CA301MW

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	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	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61		
6	81	71	64	59	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	54	48	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	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°	3289	3289	3289	3289	3289
5°	7088	5239	3104	1651	1365
10°	31462	9931	2449	690	490
15°	119002	22951	1703	295	204
20°	457676	32366	1027	93	93
25°	870316	30340	532	0	0
30°	1051352	24485	228	0	0
35°	819968	16677	107	0	0
40°	299218	8215	115	0	115
45°	76845	2450	124	0	279
50°	12963	307	136	136	443
55°	1682	0	344	497	841
60°	175	175	570	789	1140
65°	208	208	934	1141	1349
70°	256	256	1154	1154	1410
75°	339	339	1525	1101	1525
80°	0	505	1642	1137	1642
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 76845 cd/sqm

TEST NUMBER: P1336293

CATALOG NUMBER: P3A05R159024DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.5
10°-20°	34.8	7.7
20°-30°	193.0	42.5
30°-40°	186.4	41.1
40°-50°	32.4	7.1
50°-60°	2.3	0.5
60°-70°	1.4	0.3
70°-80°	1.1	0.2
80°-90°	0.5	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°	229.8	50.6
0°-40°	416.2	91.7
0°-60°	450.9	99.3
0°-90°	454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	454.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	32	24	14	8	6	6
15°	524	101	8	1	1	234
25°	3597	125	2	0	0	1608
35°	3063	62	0	0	0	1762
45°	248	8	0	0	1	266
55°	4	0	1	1	2	9
65°	0	0	2	2	3	0
75°	0	0	2	1	2	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1336293

CATALOG NUMBER: P3A05R159024DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
2.5°	22.1	21.2	21.6	21.6	21.6	21.6	21.6	20.8	20.8	21.2	19.0
5°	32.2	32.2	31.8	32.2	32.2	31.8	30.9	30.5	30.5	29.6	23.8
7.5°	64.5	63.6	63.6	62.7	58.3	57.0	56.1	53.9	49.9	49.0	30.9
10°	141.3	141.8	138.7	134.7	134.3	127.6	125.4	121.4	113.9	106.4	44.6
12.5°	256.6	250.8	243.3	243.8	231.0	226.6	216.4	205.4	193.9	182.0	73.3
15°	524.2	507.9	517.6	493.7	466.8	436.3	405.4	366.6	333.4	298.1	101.1
17.5°	1104.1	1120.0	1093.0	991.0	928.3	854.5	750.8	650.5	564.8	495.9	123.7
20°	1961.3	1984.7	1893.3	1804.5	1652.1	1486.1	1313.0	1116.9	929.2	766.7	138.7
21°	2319.4	2305.3	2267.8	2125.6	1949.8	1757.2	1545.3	1328.9	1101.4	890.3	140.0
22°	2665.7	2672.3	2584.8	2436.0	2253.2	2039.9	1781.1	1513.9	1268.8	991.0	137.8
23°	3010.6	3031.8	2916.1	2776.5	2546.4	2305.7	2006.3	1717.9	1415.0	1106.3	133.4
24°	3329.9	3315.3	3237.1	3061.4	2815.4	2533.6	2222.7	1872.9	1535.1	1204.8	129.8
25°	3597.1	3595.3	3472.5	3301.6	3020.3	2708.1	2365.4	1999.7	1638.0	1271.4	125.4
26°	3815.7	3779.9	3683.2	3474.7	3196.9	2867.5	2482.4	2092.0	1695.9	1305.0	121.0
27°	3984.4	3958.8	3828.9	3612.1	3321.9	2957.6	2557.5	2137.9	1722.3	1316.1	115.3
28°	4097.9	4070.0	3931.8	3708.3	3390.8	3014.1	2597.2	2157.4	1722.3	1305.5	110.0
29°	4156.6	4118.6	3980.8	3741.5	3406.7	3020.7	2587.5	2138.4	1695.4	1272.8	103.8
30°	4152.2	4104.9	3960.5	3711.4	3359.5	2966.4	2533.2	2069.9	1634.5	1224.2	96.7
31°	4080.6	4027.6	3866.5	3609.9	3261.9	2864.0	2430.7	1978.1	1551.0	1161.0	89.7
32°	3935.3	3868.2	3711.0	3455.3	3111.7	2710.7	2281.9	1836.3	1426.0	1068.7	82.1
33°	3698.6	3631.1	3462.4	3222.6	2908.6	2516.4	2084.5	1683.9	1283.8	958.8	76.0
34°	3402.3	3340.5	3195.2	2953.6	2652.4	2270.4	1857.5	1473.3	1136.3	849.7	69.3
35°	3063.1	2964.6	2833.0	2641.8	2348.1	1963.9	1612.4	1277.2	984.4	735.3	62.3
36°	2604.3	2621.9	2482.4	2248.3	2005.0	1703.8	1366.4	1064.8	823.2	626.7	56.1
37°	2197.5	2169.7	2081.0	1899.9	1687.9	1388.9	1145.1	902.7	692.5	530.0	49.5
38°	1772.7	1778.9	1691.9	1552.8	1342.5	1142.0	921.7	741.5	579.4	450.9	43.3
39°	1387.6	1382.7	1359.3	1230.4	1040.0	908.4	746.8	614.7	482.7	380.2	36.7
40°	1045.3	1053.3	998.5	920.8	809.9	701.7	594.9	490.2	399.2	320.6	28.7
42.5°	508.3	520.7	484.5	464.6	415.6	373.2	314.9	257.0	218.6	189.0	12.8
45°	247.8	240.7	237.6	227.9	216.4	193.4	171.4	147.1	128.5	110.8	7.9
47.5°	126.7	123.2	123.2	119.2	115.3	107.8	96.7	88.8	79.9	68.9	3.1
50°	38.0	37.5	37.1	37.5	36.2	37.5	38.4	38.9	35.3	34.9	0.9
52.5°	15.0	15.5	15.0	16.3	16.3	15.9	16.3	15.9	15.5	13.7	0.0
55°	4.4	4.4	4.4	4.4	4.4	4.4	4.9	5.3	4.9	5.3	0.0
57.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.4
62.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	15.0	15.0	15.0	15.0	15.0	15.0
2.5°	17.7	15.5	12.8	10.6	9.7	9.3
5°	19.0	14.1	9.7	7.5	6.6	6.2
7.5°	20.3	12.8	7.5	5.3	4.0	3.5
10°	21.2	11.0	5.7	3.1	2.2	2.2
12.5°	21.2	8.8	4.0	1.8	1.3	1.3
15°	20.8	7.5	2.6	1.3	0.9	0.9
17.5°	20.3	5.7	1.8	0.9	0.4	0.9
20°	19.0	4.4	0.9	0.4	0.4	0.4
21°	18.5	4.0	0.9	0.4	0.4	0.4
22°	17.7	3.5	0.4	0.0	0.4	0.4
23°	16.8	2.6	0.4	0.0	0.0	0.0
24°	15.5	2.2	0.4	0.0	0.0	0.0
25°	14.6	2.2	0.4	0.0	0.0	0.0
26°	13.7	1.3	0.0	0.0	0.0	0.0
27°	12.4	0.9	0.0	0.0	0.0	0.0
28°	11.5	0.9	0.0	0.0	0.0	0.0
29°	10.2	0.9	0.0	0.0	0.0	0.0
30°	8.8	0.9	0.0	0.0	0.0	0.0
31°	7.1	0.4	0.0	0.0	0.0	0.0
32°	5.7	0.4	0.0	0.0	0.0	0.0
33°	4.0	0.4	0.0	0.0	0.0	0.0
34°	2.6	0.4	0.0	0.0	0.0	0.0
35°	2.2	0.4	0.0	0.0	0.0	0.0
36°	1.3	0.4	0.0	0.0	0.0	0.4
37°	1.3	0.4	0.0	0.0	0.0	0.4
38°	0.9	0.4	0.0	0.0	0.0	0.4
39°	0.4	0.4	0.0	0.0	0.0	0.4
40°	0.4	0.4	0.0	0.0	0.0	0.4
42.5°	0.0	0.4	0.0	0.0	0.4	0.9
45°	0.0	0.4	0.0	0.0	0.4	0.9
47.5°	0.0	0.4	0.0	0.0	0.9	0.9
50°	0.0	0.4	0.4	0.4	0.9	1.3
52.5°	0.0	0.9	0.4	0.9	1.3	1.8
55°	0.4	0.9	0.9	1.3	1.8	2.2
57.5°	0.4	1.3	1.3	1.8	2.2	2.2
60°	0.9	1.3	1.8	1.8	2.6	2.6
62.5°	0.9	1.8	1.8	1.8	2.6	2.6
65°	0.9	1.8	1.8	2.2	2.6	2.6
67.5°	0.9	1.8	1.8	1.8	2.2	2.6
70°	0.9	1.8	1.3	1.8	2.2	2.2
72.5°	0.9	1.8	1.3	1.3	1.8	2.2
75°	0.9	1.8	1.3	1.3	1.8	1.8
77.5°	0.9	1.3	1.3	0.9	1.3	1.3
80°	0.9	1.3	0.9	0.9	1.3	1.3



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.9	1.3	0.9	0.4	0.9	0.9
85°	0.9	1.3	0.9	0.4	0.4	0.4
87.5°	0.9	1.3	0.4	0.0	0.0	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)