

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: P1340037

Luminaire Tested: P3A09R159835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1340037
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: P3A09R159835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

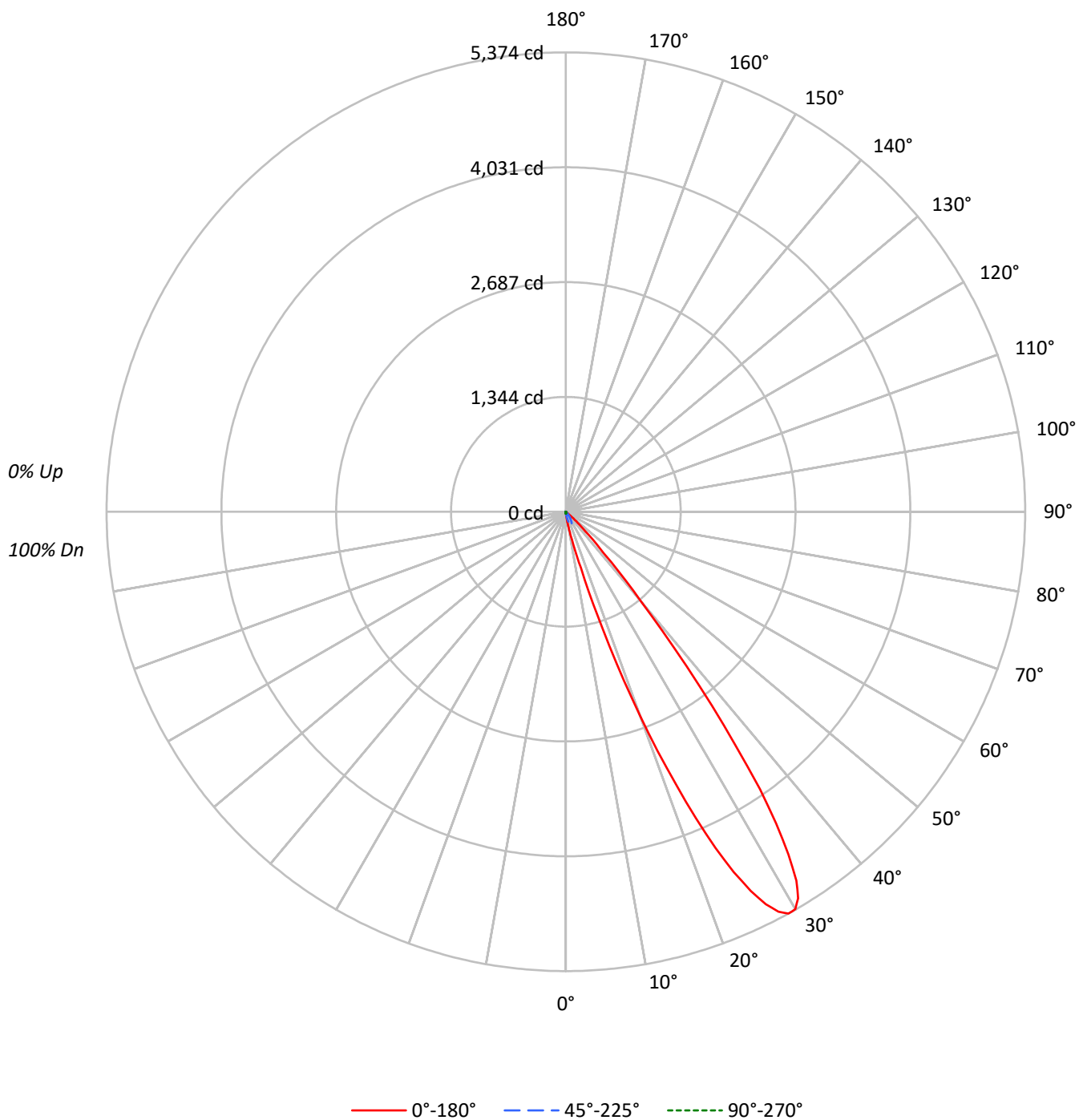
Lumens per Lamp: N/A
Luminaire Lumens: 587.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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: P1340037

CATALOG NUMBER: P3A09R159835DE010 E3CA301MW

Luminous Intensity Polar Plot



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CATALOG NUMBER: P3A09R159835DE010 E3CA301MW

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	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°	4254	4254	4254	4254	4254
5°	9179	6780	4028	2135	1761
10°	40681	12848	3184	891	646
15°	153871	29694	2202	386	250
20°	591738	41840	1330	140	140
25°	1125259	39244	702	0	0
30°	1359348	31650	279	0	0
35°	1060195	21549	161	0	0
40°	386896	10620	172	0	172
45°	99328	3194	186	0	341
50°	16750	375	205	205	580
55°	2179	0	421	650	1109
60°	263	263	746	1009	1491
65°	311	311	1193	1505	1764
70°	385	385	1475	1475	1859
75°	508	508	1949	1440	1949
80°	0	758	2147	1389	2147
85°	0	1510	4277	1510	1510

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 99328 cd/sqm

TEST NUMBER: P1340037

CATALOG NUMBER: P3A09R159835DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.5
10°-20°	45.0	7.7
20°-30°	249.5	42.5
30°-40°	241.0	41.1
40°-50°	41.9	7.1
50°-60°	3.0	0.5
60°-70°	1.8	0.3
70°-80°	1.4	0.2
80°-90°	0.7	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°	297.1	50.6
0°-40°	538.1	91.7
0°-60°	583.1	99.3
0°-90°	587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	587.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	42	31	18	10	8	8
15°	678	131	10	2	1	302
25°	4651	162	3	0	0	2080
35°	3960	80	1	0	0	2278
45°	320	10	1	0	1	344
55°	6	0	1	2	3	11
65°	1	1	2	3	3	1
75°	1	1	2	2	2	0
85°	0	1	2	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1340037

CATALOG NUMBER: P3A09R159835DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	28.6	27.4	28.0	28.0	28.0	28.0	28.0	26.8	26.8	27.4	24.6
5°	41.7	41.7	41.1	41.7	41.7	41.1	40.0	39.4	39.4	38.3	30.8
7.5°	83.4	82.2	82.2	81.1	75.4	73.7	72.5	69.7	64.5	63.4	40.0
10°	182.7	183.3	179.3	174.2	173.6	165.0	162.2	157.0	147.3	137.6	57.7
12.5°	331.8	324.3	314.6	315.2	298.6	292.9	279.8	265.5	250.7	235.3	94.8
15°	677.8	656.7	669.2	638.4	603.6	564.2	524.2	473.9	431.1	385.4	130.8
17.5°	1427.5	1448.1	1413.2	1281.3	1200.2	1104.9	970.7	841.1	730.3	641.2	159.9
20°	2535.8	2566.1	2447.9	2333.1	2136.1	1921.4	1697.6	1444.1	1201.4	991.3	179.3
21°	2998.9	2980.6	2932.1	2748.2	2521.0	2272.0	1997.9	1718.1	1424.1	1151.1	181.0
22°	3446.6	3455.1	3342.1	3149.7	2913.3	2637.5	2302.9	1957.4	1640.5	1281.3	178.2
23°	3892.5	3919.9	3770.3	3589.9	3292.4	2981.2	2594.1	2221.2	1829.5	1430.4	172.4
24°	4305.4	4286.5	4185.5	3958.2	3640.1	3275.8	2873.9	2421.6	1984.8	1557.7	167.9
25°	4650.8	4648.5	4489.8	4268.8	3905.1	3501.4	3058.3	2585.5	2117.9	1643.9	162.2
26°	4933.5	4887.2	4762.2	4492.7	4133.5	3707.5	3209.6	2704.8	2192.7	1687.3	156.5
27°	5151.6	5118.5	4950.6	4670.2	4295.1	3824.0	3306.7	2764.2	2226.9	1701.6	149.0
28°	5298.3	5262.4	5083.6	4794.7	4384.2	3897.1	3358.1	2789.4	2226.9	1687.9	142.2
29°	5374.3	5325.2	5147.0	4837.5	4404.7	3905.7	3345.5	2764.8	2192.1	1645.6	134.2
30°	5368.6	5307.5	5120.8	4798.7	4343.6	3835.4	3275.3	2676.3	2113.3	1582.8	125.0
31°	5276.1	5207.6	4999.1	4667.4	4217.4	3703.0	3142.8	2557.5	2005.4	1501.2	115.9
32°	5088.2	5001.4	4798.1	4467.5	4023.3	3504.8	2950.4	2374.2	1843.8	1381.8	106.2
33°	4782.2	4694.8	4476.7	4166.6	3760.6	3253.6	2695.1	2177.2	1659.9	1239.6	98.2
34°	4399.0	4319.1	4131.2	3818.9	3429.4	2935.5	2401.6	1904.9	1469.2	1098.6	89.6
35°	3960.5	3833.1	3663.0	3415.7	3036.0	2539.3	2084.7	1651.3	1272.8	950.7	80.5
36°	3367.2	3390.0	3209.6	2907.0	2592.4	2202.9	1766.7	1376.7	1064.4	810.3	72.5
37°	2841.3	2805.3	2690.6	2456.5	2182.4	1795.8	1480.6	1167.1	895.3	685.2	64.0
38°	2292.0	2300.0	2187.5	2007.6	1735.9	1476.6	1191.7	958.7	749.2	583.0	56.0
39°	1794.1	1787.8	1757.5	1590.8	1344.7	1174.6	965.6	794.8	624.1	491.6	47.4
40°	1351.6	1361.8	1291.0	1190.5	1047.2	907.3	769.1	633.8	516.2	414.5	37.1
42.5°	657.2	673.2	626.4	600.7	537.3	482.5	407.1	332.3	282.6	244.4	16.6
45°	320.3	311.2	307.2	294.6	279.8	250.1	221.5	190.1	166.2	143.3	10.3
47.5°	163.9	159.3	159.3	154.2	149.0	139.3	125.0	114.8	103.4	89.1	4.0
50°	49.1	48.5	48.0	48.5	46.8	48.5	49.7	50.2	45.7	45.1	1.1
52.5°	19.4	20.0	19.4	21.1	21.1	20.6	21.1	20.6	20.0	17.7	0.0
55°	5.7	5.7	5.7	5.7	5.7	5.7	6.3	6.9	6.3	6.9	0.0
57.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.6
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6



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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	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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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CATALOG NUMBER: P3A09R159835DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	19.4	19.4	19.4	19.4	19.4	19.4
2.5°	22.8	20.0	16.6	13.7	12.6	12.0
5°	24.6	18.3	12.6	9.7	8.6	8.0
7.5°	26.3	16.6	9.7	6.9	5.1	4.6
10°	27.4	14.3	7.4	4.0	2.9	2.9
12.5°	27.4	11.4	5.1	2.3	1.7	1.7
15°	26.8	9.7	3.4	1.7	1.1	1.1
17.5°	26.3	7.4	2.3	1.1	0.6	1.1
20°	24.6	5.7	1.1	0.6	0.6	0.6
21°	24.0	5.1	1.1	0.6	0.6	0.6
22°	22.8	4.6	0.6	0.0	0.6	0.6
23°	21.7	3.4	0.6	0.0	0.0	0.0
24°	20.0	2.9	0.6	0.0	0.0	0.0
25°	18.8	2.9	0.6	0.0	0.0	0.0
26°	17.7	1.7	0.0	0.0	0.0	0.0
27°	16.0	1.1	0.0	0.0	0.0	0.0
28°	14.8	1.1	0.0	0.0	0.0	0.0
29°	13.1	1.1	0.0	0.0	0.0	0.0
30°	11.4	1.1	0.0	0.0	0.0	0.0
31°	9.1	0.6	0.0	0.0	0.0	0.0
32°	7.4	0.6	0.0	0.0	0.0	0.0
33°	5.1	0.6	0.0	0.0	0.0	0.0
34°	3.4	0.6	0.0	0.0	0.0	0.0
35°	2.9	0.6	0.0	0.0	0.0	0.0
36°	1.7	0.6	0.0	0.0	0.0	0.6
37°	1.7	0.6	0.0	0.0	0.0	0.6
38°	1.1	0.6	0.0	0.0	0.0	0.6
39°	0.6	0.6	0.0	0.0	0.0	0.6
40°	0.6	0.6	0.0	0.0	0.0	0.6
42.5°	0.0	0.6	0.0	0.0	0.6	1.1
45°	0.0	0.6	0.0	0.0	0.6	1.1
47.5°	0.0	0.6	0.0	0.0	1.1	1.1
50°	0.0	0.6	0.6	0.6	1.1	1.7
52.5°	0.0	1.1	0.6	1.1	1.7	2.3
55°	0.6	1.1	1.1	1.7	2.3	2.9
57.5°	0.6	1.7	1.7	2.3	2.9	2.9
60°	1.1	1.7	2.3	2.3	3.4	3.4
62.5°	1.1	2.3	2.3	2.3	3.4	3.4
65°	1.1	2.3	2.3	2.9	3.4	3.4
67.5°	1.1	2.3	2.3	2.3	2.9	3.4
70°	1.1	2.3	1.7	2.3	2.9	2.9
72.5°	1.1	2.3	1.7	1.7	2.3	2.9
75°	1.1	2.3	1.7	1.7	2.3	2.3
77.5°	1.1	1.7	1.7	1.1	1.7	1.7
80°	1.1	1.7	1.1	1.1	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.1	1.7	1.1	0.6	1.1	1.1
85°	1.1	1.7	1.1	0.6	0.6	0.6
87.5°	1.1	1.7	0.6	0.0	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)