

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: P1336443

Luminaire Tested: P3A05R159740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336443
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: P3A05R159740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

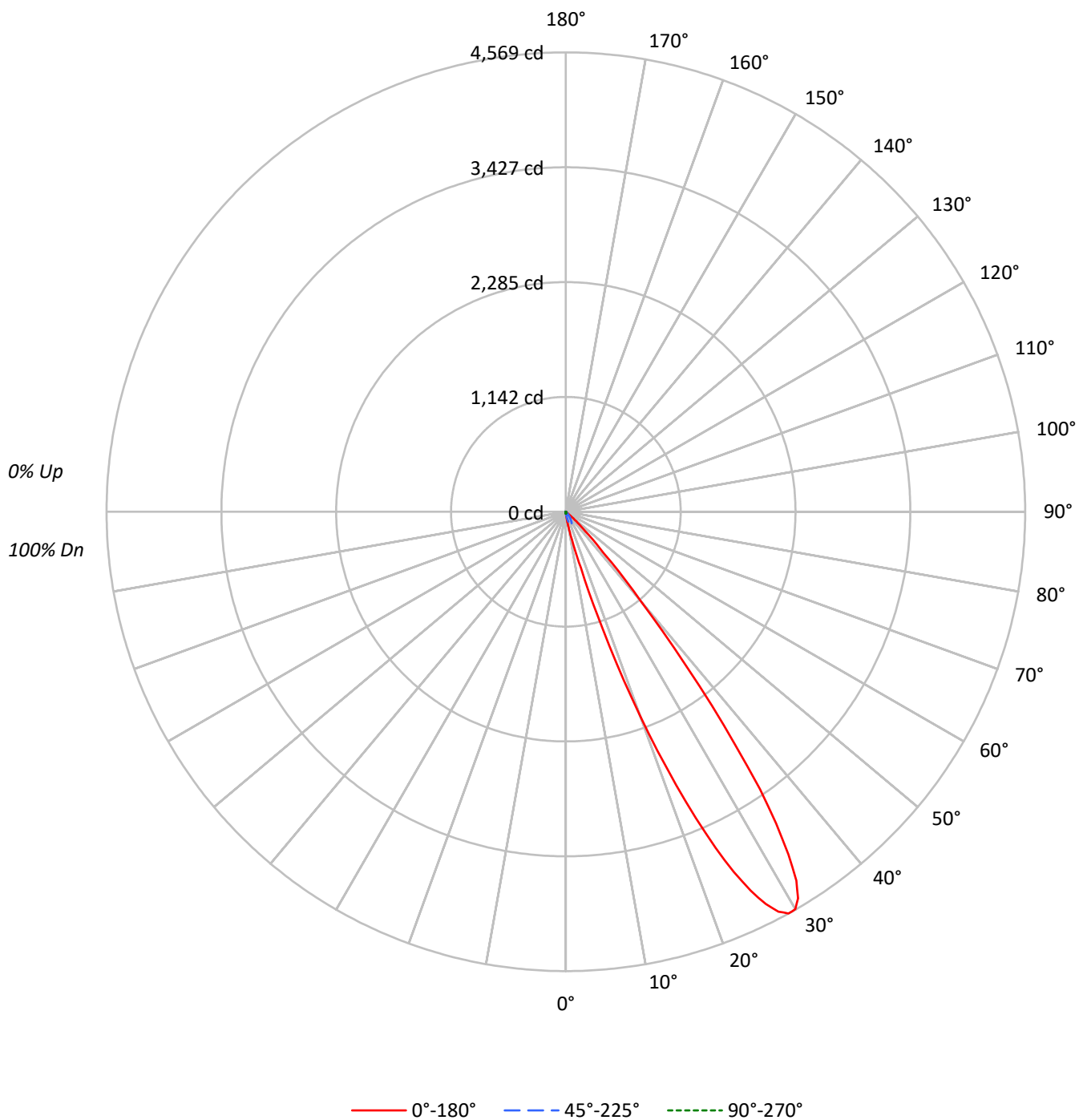
Lumens per Lamp: N/A
Luminaire Lumens: 499.0 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1336443

CATALOG NUMBER: P3A05R159740DE010 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	47	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°	3618	3618	3618	3618	3618
5°	7792	5767	3412	1827	1497
10°	34580	10911	2694	757	534
15°	130807	25244	1884	341	227
20°	503040	35563	1143	117	117
25°	956571	33365	581	0	0
30°	1155545	26916	253	0	0
35°	901240	18310	134	0	0
40°	328873	9046	143	0	143
45°	84443	2698	155	0	310
50°	14226	341	171	171	512
55°	1873	0	382	573	918
60°	219	219	658	833	1272
65°	259	259	986	1245	1505
70°	321	321	1218	1218	1539
75°	424	424	1610	1271	1610
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 84443 cd/sqm

TEST NUMBER: P1336443

CATALOG NUMBER: P3A05R159740DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	38.2	7.7
20°-30°	212.1	42.5
30°-40°	204.9	41.1
40°-50°	35.6	7.1
50°-60°	2.6	0.5
60°-70°	1.5	0.3
70°-80°	1.2	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°	252.6	50.6
0°-40°	457.5	91.7
0°-60°	495.7	99.3
0°-90°	499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	499.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	35	26	16	8	7	7
15°	576	111	8	2	1	257
25°	3954	138	2	0	0	1768
35°	3367	68	0	0	0	1936
45°	272	9	0	0	1	292
55°	5	0	1	2	2	9
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1336443

CATALOG NUMBER: P3A05R159740DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
2.5°	24.3	23.3	23.8	23.8	23.8	23.8	23.8	22.8	22.8	23.3	20.9
5°	35.4	35.4	34.9	35.4	35.4	34.9	34.0	33.5	33.5	32.5	26.2
7.5°	70.9	69.9	69.9	68.9	64.1	62.6	61.6	59.2	54.9	53.9	34.0
10°	155.3	155.8	152.4	148.0	147.6	140.3	137.9	133.5	125.2	117.0	49.0
12.5°	282.0	275.7	267.5	267.9	253.9	249.0	237.8	225.7	213.1	200.0	80.6
15°	576.2	558.2	568.9	542.7	513.1	479.6	445.6	402.9	366.5	327.6	111.2
17.5°	1213.5	1231.0	1201.4	1089.2	1020.3	939.3	825.2	715.0	620.8	545.1	135.9
20°	2155.7	2181.4	2080.9	1983.4	1815.9	1633.4	1443.1	1227.6	1021.3	842.7	152.4
21°	2549.3	2533.8	2492.5	2336.2	2143.0	1931.4	1698.4	1460.6	1210.6	978.6	153.9
22°	2929.9	2937.2	2841.1	2677.5	2476.5	2242.1	1957.6	1664.0	1394.6	1089.2	151.4
23°	3309.0	3332.3	3205.1	3051.7	2798.8	2534.3	2205.2	1888.2	1555.2	1215.9	146.6
24°	3659.9	3643.9	3558.0	3364.8	3094.4	2784.7	2443.0	2058.6	1687.3	1324.2	142.7
25°	3953.6	3951.7	3816.7	3628.9	3319.7	2976.5	2599.8	2197.9	1800.4	1397.5	137.9
26°	4193.9	4154.6	4048.2	3819.1	3513.8	3151.7	2728.4	2299.3	1863.9	1434.4	133.0
27°	4379.3	4351.1	4208.4	3970.1	3651.2	3250.7	2811.0	2349.8	1893.1	1446.5	126.7
28°	4504.0	4473.5	4321.5	4075.9	3726.9	3312.9	2854.6	2371.2	1893.1	1434.8	120.9
29°	4568.6	4526.9	4375.4	4112.3	3744.4	3320.1	2844.0	2350.3	1863.5	1398.9	114.1
30°	4563.7	4511.8	4353.1	4079.3	3692.4	3260.4	2784.3	2275.1	1796.5	1345.5	106.3
31°	4485.1	4426.9	4249.7	3967.7	3585.2	3147.8	2671.7	2174.1	1704.7	1276.1	98.5
32°	4325.4	4251.6	4078.8	3797.8	3420.1	2979.4	2508.1	2018.3	1567.4	1174.7	90.3
33°	4065.2	3991.0	3805.5	3542.0	3196.9	2765.8	2291.1	1850.8	1411.1	1053.8	83.5
34°	3739.5	3671.6	3511.9	3246.4	2915.3	2495.4	2041.6	1619.3	1248.9	933.9	76.2
35°	3366.7	3258.5	3113.9	2903.7	2580.9	2158.6	1772.2	1403.8	1082.0	808.2	68.4
36°	2862.4	2881.8	2728.4	2471.2	2203.7	1872.7	1501.8	1170.3	904.8	688.8	61.6
37°	2415.4	2384.8	2287.2	2088.2	1855.2	1526.6	1258.6	992.2	761.1	582.5	54.4
38°	1948.4	1955.2	1859.6	1706.7	1475.6	1255.2	1013.0	815.0	636.8	495.6	47.6
39°	1525.1	1519.8	1494.1	1352.3	1143.1	998.5	820.8	675.7	530.5	417.9	40.3
40°	1148.9	1157.7	1097.5	1012.1	890.2	771.3	653.8	538.8	438.8	352.4	31.6
42.5°	558.7	572.3	532.5	510.6	456.8	410.2	346.1	282.5	240.3	207.8	14.1
45°	272.3	264.5	261.1	250.5	237.8	212.6	188.3	161.6	141.3	121.8	8.7
47.5°	139.3	135.4	135.4	131.1	126.7	118.4	106.3	97.6	87.9	75.7	3.4
50°	41.7	41.3	40.8	41.3	39.8	41.3	42.2	42.7	38.8	38.3	1.0
52.5°	16.5	17.0	16.5	18.0	18.0	17.5	18.0	17.5	17.0	15.0	0.0
55°	4.9	4.9	4.9	4.9	4.9	4.9	5.3	5.8	5.3	5.8	0.0
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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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	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	16.5	16.5	16.5	16.5	16.5	16.5
2.5°	19.4	17.0	14.1	11.6	10.7	10.2
5°	20.9	15.5	10.7	8.3	7.3	6.8
7.5°	22.3	14.1	8.3	5.8	4.4	3.9
10°	23.3	12.1	6.3	3.4	2.4	2.4
12.5°	23.3	9.7	4.4	1.9	1.5	1.5
15°	22.8	8.3	2.9	1.5	1.0	1.0
17.5°	22.3	6.3	1.9	1.0	0.5	1.0
20°	20.9	4.9	1.0	0.5	0.5	0.5
21°	20.4	4.4	1.0	0.5	0.5	0.5
22°	19.4	3.9	0.5	0.0	0.5	0.5
23°	18.4	2.9	0.5	0.0	0.0	0.0
24°	17.0	2.4	0.5	0.0	0.0	0.0
25°	16.0	2.4	0.5	0.0	0.0	0.0
26°	15.0	1.5	0.0	0.0	0.0	0.0
27°	13.6	1.0	0.0	0.0	0.0	0.0
28°	12.6	1.0	0.0	0.0	0.0	0.0
29°	11.2	1.0	0.0	0.0	0.0	0.0
30°	9.7	1.0	0.0	0.0	0.0	0.0
31°	7.8	0.5	0.0	0.0	0.0	0.0
32°	6.3	0.5	0.0	0.0	0.0	0.0
33°	4.4	0.5	0.0	0.0	0.0	0.0
34°	2.9	0.5	0.0	0.0	0.0	0.0
35°	2.4	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.5	0.0	0.0	0.0	0.5
37°	1.5	0.5	0.0	0.0	0.0	0.5
38°	1.0	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.0
45°	0.0	0.5	0.0	0.0	0.5	1.0
47.5°	0.0	0.5	0.0	0.0	1.0	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.5
52.5°	0.0	1.0	0.5	1.0	1.5	1.9
55°	0.5	1.0	1.0	1.5	1.9	2.4
57.5°	0.5	1.5	1.5	1.9	2.4	2.4
60°	1.0	1.5	1.9	1.9	2.9	2.9
62.5°	1.0	1.9	1.9	1.9	2.9	2.9
65°	1.0	1.9	1.9	2.4	2.9	2.9
67.5°	1.0	1.9	1.9	1.9	2.4	2.9
70°	1.0	1.9	1.5	1.9	2.4	2.4
72.5°	1.0	1.9	1.5	1.5	1.9	2.4
75°	1.0	1.9	1.5	1.5	1.9	1.9
77.5°	1.0	1.5	1.5	1.0	1.5	1.5
80°	1.0	1.5	1.0	1.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.5	1.0	0.5	1.0	1.0
85°	1.0	1.5	1.0	0.5	0.5	0.5
87.5°	1.0	1.5	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)