

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: P1336351

Luminaire Tested: P3A05R159035DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336351
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: P3A05R159035DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R15 optic, 3500K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

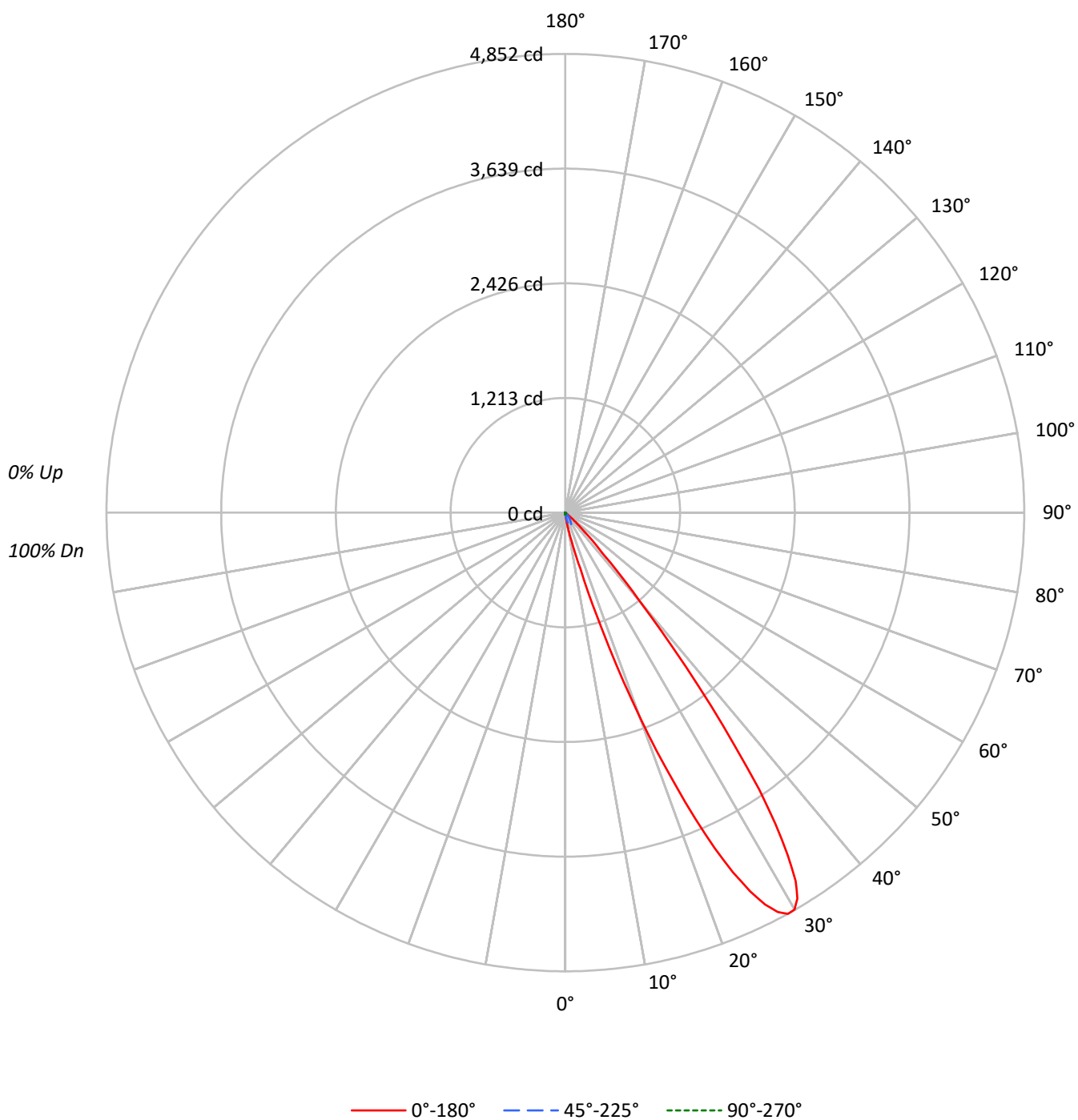
Lumens per Lamp: N/A
Luminaire Lumens: 529.9 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1336351

CATALOG NUMBER: P3A05R159035DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1336351

CATALOG NUMBER: P3A05R159035DE010 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°	3837	3837	3837	3837	3837
5°	8276	6119	3632	1937	1585
10°	36739	11601	2872	802	579
15°	138934	26811	1998	341	227
20°	534286	37780	1213	117	117
25°	1015994	35421	629	0	0
30°	1227353	28587	253	0	0
35°	957241	19461	134	0	0
40°	349312	9589	143	0	143
45°	89684	2884	155	0	310
50°	15113	341	171	171	512
55°	1988	0	382	573	994
60°	219	219	658	921	1360
65°	259	259	1090	1349	1608
70°	321	321	1346	1346	1667
75°	424	424	1779	1271	1779
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 89684 cd/sqm

TEST NUMBER: P1336351

CATALOG NUMBER: P3A05R159035DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.4	0.5
10°-20°	40.6	7.7
20°-30°	225.3	42.5
30°-40°	217.6	41.1
40°-50°	37.8	7.1
50°-60°	2.7	0.5
60°-70°	1.6	0.3
70°-80°	1.3	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°	268.3	50.6
0°-40°	485.9	91.7
0°-60°	526.4	99.3
0°-90°	529.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	529.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	38	28	16	9	7	7
15°	612	118	9	2	1	273
25°	4199	146	3	0	0	1878
35°	3576	73	0	0	0	2057
45°	289	9	0	0	1	311
55°	5	0	1	2	3	10
65°	0	0	2	3	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1336351

CATALOG NUMBER: P3A05R159035DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	25.8	24.7	25.3	25.3	25.3	25.3	25.3	24.2	24.2	24.7	22.2
5°	37.6	37.6	37.1	37.6	37.6	37.1	36.1	35.6	35.6	34.5	27.8
7.5°	75.3	74.2	74.2	73.2	68.1	66.5	65.5	62.9	58.3	57.2	36.1
10°	165.0	165.5	161.9	157.2	156.7	149.0	146.4	141.8	133.0	124.2	52.1
12.5°	299.5	292.8	284.1	284.6	269.6	264.5	252.6	239.7	226.3	212.4	85.6
15°	612.0	592.9	604.2	576.4	544.9	509.4	473.3	427.9	389.2	348.0	118.1
17.5°	1288.9	1307.5	1276.0	1156.9	1083.7	997.6	876.4	759.4	659.4	579.0	144.4
20°	2289.6	2316.9	2210.2	2106.6	1928.7	1734.8	1532.8	1303.8	1084.7	895.0	161.9
21°	2707.7	2691.2	2647.4	2481.4	2276.2	2051.4	1803.9	1551.3	1285.8	1039.4	163.4
22°	3111.9	3119.6	3017.6	2843.8	2630.4	2381.4	2079.2	1767.3	1481.2	1156.9	160.9
23°	3514.6	3539.3	3404.2	3241.3	2972.7	2691.7	2342.2	2005.5	1651.8	1291.5	155.7
24°	3887.3	3870.3	3779.0	3573.8	3286.7	2957.7	2594.8	2186.5	1792.1	1406.4	151.6
25°	4199.2	4197.1	4053.8	3854.3	3525.9	3161.4	2761.3	2334.4	1912.2	1484.3	146.4
26°	4454.4	4412.7	4299.7	4056.4	3732.1	3347.5	2897.9	2442.2	1979.7	1523.5	141.3
27°	4651.4	4621.5	4469.9	4216.7	3878.0	3452.7	2985.6	2495.8	2010.7	1536.4	134.6
28°	4783.9	4751.4	4590.0	4329.1	3958.4	3518.7	3032.0	2518.5	2010.7	1524.0	128.4
29°	4852.4	4808.1	4647.2	4367.8	3977.0	3526.4	3020.6	2496.3	1979.2	1485.8	121.2
30°	4847.3	4792.1	4623.5	4332.7	3921.8	3463.0	2957.2	2416.4	1908.1	1429.1	112.9
31°	4763.7	4701.9	4513.7	4214.2	3807.9	3343.4	2837.6	2309.2	1810.6	1355.4	104.7
32°	4594.1	4515.8	4332.2	4033.7	3632.6	3164.5	2663.9	2143.7	1664.7	1247.6	95.9
33°	4317.8	4238.9	4042.0	3762.0	3395.5	2937.6	2433.4	1965.8	1498.7	1119.3	88.7
34°	3971.8	3899.7	3730.1	3448.0	3096.4	2650.5	2168.4	1719.9	1326.5	991.9	80.9
35°	3575.9	3460.9	3307.3	3084.1	2741.2	2292.7	1882.3	1491.0	1149.2	858.4	72.7
36°	3040.2	3060.9	2897.9	2624.7	2340.6	1989.0	1595.1	1243.0	961.0	731.6	65.5
37°	2565.4	2532.9	2429.3	2217.9	1970.5	1621.4	1336.8	1053.8	808.4	618.7	57.7
38°	2069.4	2076.7	1975.1	1812.7	1567.3	1333.2	1076.0	865.6	676.4	526.4	50.5
39°	1619.9	1614.2	1586.9	1436.3	1214.1	1060.5	871.8	717.7	563.5	443.9	42.8
40°	1220.3	1229.6	1165.7	1074.9	945.5	819.2	694.5	572.3	466.1	374.3	33.5
42.5°	593.4	607.8	565.6	542.4	485.1	435.6	367.6	300.1	255.2	220.7	15.0
45°	289.2	281.0	277.4	266.0	252.6	225.8	200.0	171.7	150.0	129.4	9.3
47.5°	148.0	143.8	143.8	139.2	134.6	125.8	112.9	103.6	93.3	80.4	3.6
50°	44.3	43.8	43.3	43.8	42.3	43.8	44.9	45.4	41.2	40.7	1.0
52.5°	17.5	18.0	17.5	19.1	19.1	18.6	19.1	18.6	18.0	16.0	0.0
55°	5.2	5.2	5.2	5.2	5.2	5.2	5.7	6.2	5.7	6.2	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



TEST NUMBER: P1336351

CATALOG NUMBER: P3A05R159035DE010 E3CA301MW

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

TEST NUMBER: P1336351

CATALOG NUMBER: P3A05R159035DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	17.5	17.5	17.5	17.5	17.5	17.5
2.5°	20.6	18.0	15.0	12.4	11.3	10.8
5°	22.2	16.5	11.3	8.8	7.7	7.2
7.5°	23.7	15.0	8.8	6.2	4.6	4.1
10°	24.7	12.9	6.7	3.6	2.6	2.6
12.5°	24.7	10.3	4.6	2.1	1.5	1.5
15°	24.2	8.8	3.1	1.5	1.0	1.0
17.5°	23.7	6.7	2.1	1.0	0.5	1.0
20°	22.2	5.2	1.0	0.5	0.5	0.5
21°	21.7	4.6	1.0	0.5	0.5	0.5
22°	20.6	4.1	0.5	0.0	0.5	0.5
23°	19.6	3.1	0.5	0.0	0.0	0.0
24°	18.0	2.6	0.5	0.0	0.0	0.0
25°	17.0	2.6	0.5	0.0	0.0	0.0
26°	16.0	1.5	0.0	0.0	0.0	0.0
27°	14.4	1.0	0.0	0.0	0.0	0.0
28°	13.4	1.0	0.0	0.0	0.0	0.0
29°	11.9	1.0	0.0	0.0	0.0	0.0
30°	10.3	1.0	0.0	0.0	0.0	0.0
31°	8.2	0.5	0.0	0.0	0.0	0.0
32°	6.7	0.5	0.0	0.0	0.0	0.0
33°	4.6	0.5	0.0	0.0	0.0	0.0
34°	3.1	0.5	0.0	0.0	0.0	0.0
35°	2.6	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	2.1
55°	0.5	1.0	1.0	1.5	2.1	2.6
57.5°	0.5	1.5	1.5	2.1	2.6	2.6
60°	1.0	1.5	2.1	2.1	3.1	3.1
62.5°	1.0	2.1	2.1	2.1	3.1	3.1
65°	1.0	2.1	2.1	2.6	3.1	3.1
67.5°	1.0	2.1	2.1	2.1	2.6	3.1
70°	1.0	2.1	1.5	2.1	2.6	2.6
72.5°	1.0	2.1	1.5	1.5	2.1	2.6
75°	1.0	2.1	1.5	1.5	2.1	2.1
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



TEST NUMBER: P1336351

CATALOG NUMBER: P3A05R159035DE010 E3CA301MW

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)