

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: P1337951

Luminaire Tested: P3A05R309740DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337951
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: P3A05R309740DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

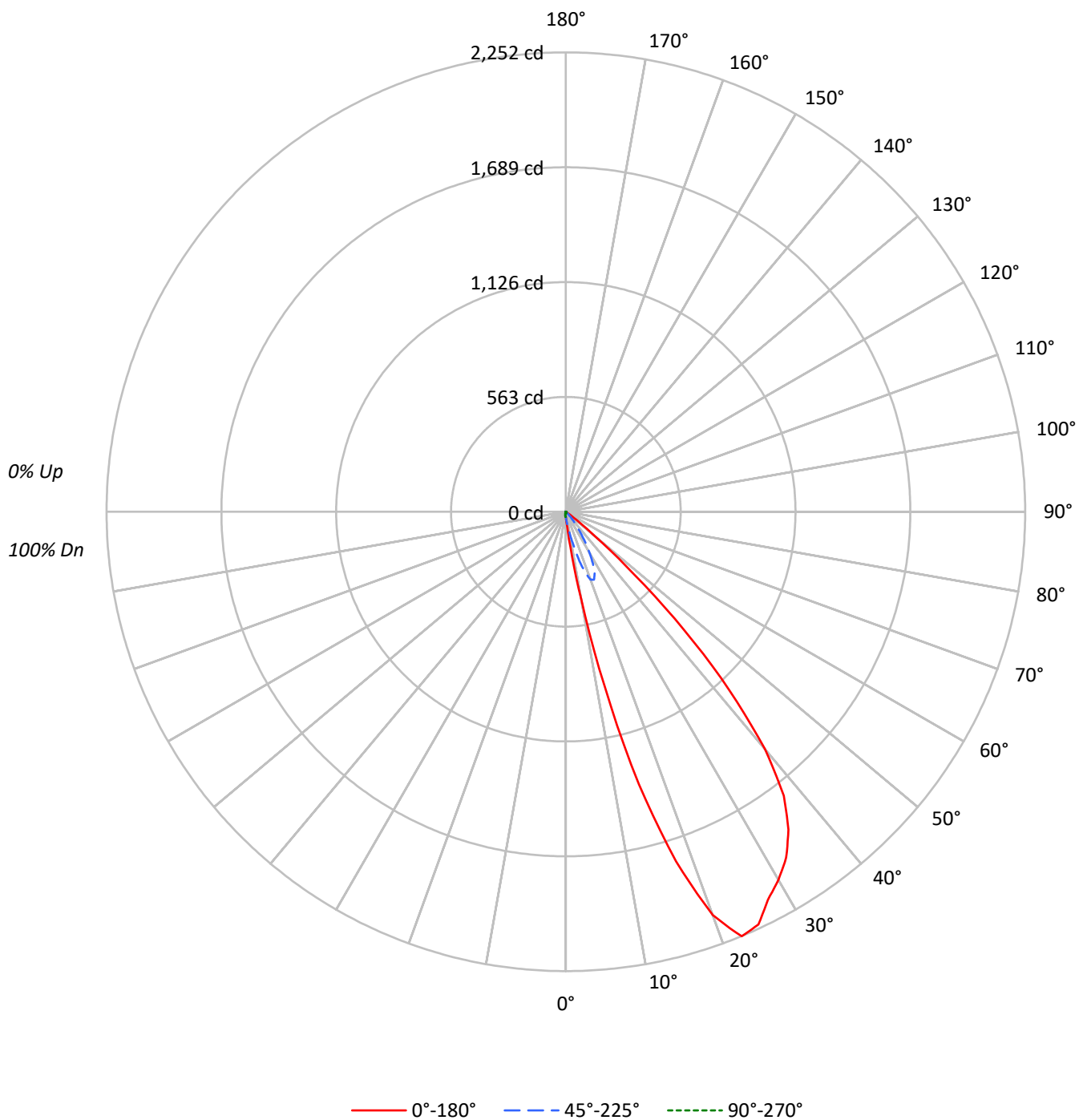
Lumens per Lamp: N/A
Luminaire Lumens: 531.1 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1337951

CATALOG NUMBER: P3A05R309740DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1337951

CATALOG NUMBER: P3A05R309740DE010 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	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	93	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	77	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	57	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	52	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	47	47	45
9	66	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	43	43	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	39	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5526	5526	5526	5526	5526
5°	16663	11116	5239	2355	1915
10°	96480	23558	4097	1091	757
15°	313827	53417	2860	227	114
20°	491069	82654	1820	0	0
25°	540249	80763	944	0	0
30°	527676	58237	380	0	0
35°	509285	33114	134	0	0
40°	434328	14026	0	0	0
45°	254879	5272	155	0	155
50°	61917	989	171	171	512
55°	5390	0	382	573	726
60°	219	0	439	658	1053
65°	259	259	778	778	1245
70°	321	321	962	962	1218
75°	0	424	1271	1271	1271
80°	0	631	1894	1263	1263
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 254879 cd/sqm

TEST NUMBER: P1337951

CATALOG NUMBER: P3A05R309740DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	0.9
10°-20°	73.0	13.7
20°-30°	185.5	34.9
30°-40°	184.9	34.8
40°-50°	74.9	14.1
50°-60°	5.2	1.0
60°-70°	1.2	0.2
70°-80°	1.2	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°	263.1	49.5
0°-40°	447.9	84.3
0°-60°	528.0	99.4
0°-90°	531.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	76	50	24	11	9	18
15°	1382	235	13	1	0	402
25°	2233	334	4	0	0	1008
35°	1902	124	0	0	0	1166
45°	822	17	0	0	0	627
55°	14	0	1	2	2	37
65°	0	0	2	2	2	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1337951

CATALOG NUMBER: P3A05R309740DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
2.5°	41.7	42.2	42.2	41.2	40.8	40.8	39.3	38.8	37.4	35.9	31.1
5°	75.7	74.2	72.3	72.3	67.9	65.5	62.1	58.2	55.3	50.5	35.9
7.5°	171.8	160.1	156.7	152.4	135.9	122.8	107.7	94.6	82.5	72.3	39.8
10°	433.3	410.5	391.6	353.2	305.2	259.1	216.4	166.9	132.9	105.8	42.7
12.5°	872.9	842.3	805.9	736.1	646.3	531.3	429.4	320.7	225.1	155.8	43.7
15°	1382.4	1330.5	1273.7	1184.9	1037.9	872.9	689.0	515.8	361.5	235.3	42.7
17.5°	1797.7	1777.3	1693.4	1572.1	1392.1	1179.6	953.0	716.2	487.6	308.1	39.8
20°	2104.4	2090.3	1988.9	1859.8	1657.0	1413.4	1125.7	841.4	575.5	354.2	35.4
22.5°	2252.4	2249.9	2176.7	2044.7	1829.7	1553.7	1236.8	913.7	602.6	360.5	29.6
25°	2232.9	2241.7	2200.0	2101.9	1895.7	1611.4	1269.8	913.7	582.7	333.8	24.7
27.5°	2144.6	2150.5	2124.3	2049.1	1856.9	1569.7	1223.7	854.9	525.0	286.8	20.4
30°	2084.0	2086.4	2053.9	1973.4	1769.6	1474.6	1115.0	746.3	437.7	230.0	15.0
32.5°	2010.2	2009.7	1971.9	1879.7	1655.1	1341.1	977.2	616.7	336.3	174.7	8.7
35°	1902.5	1890.4	1839.0	1732.7	1484.3	1161.6	801.1	469.7	242.1	123.7	5.3
37.5°	1754.5	1723.0	1650.2	1508.0	1244.6	910.7	593.9	329.9	165.5	82.0	3.4
40°	1517.3	1483.8	1384.8	1212.1	941.3	655.5	400.3	214.9	104.3	49.0	1.9
42.5°	1189.7	1166.9	1033.5	861.3	621.6	418.3	240.7	127.1	58.7	28.1	0.5
45°	821.9	792.4	687.5	541.5	373.1	231.9	134.9	66.5	33.5	17.0	0.0
47.5°	453.7	417.3	356.6	280.5	187.8	121.8	67.9	35.9	18.9	8.2	0.0
50°	181.5	180.0	143.1	101.9	71.8	55.3	34.0	19.4	9.7	2.9	0.5
52.5°	63.6	63.6	54.8	44.6	34.9	25.2	17.0	9.2	3.4	1.0	0.5
55°	14.1	15.5	14.6	13.6	13.1	11.2	7.3	3.4	1.0	0.0	0.5
57.5°	1.5	1.5	1.5	1.9	2.4	2.4	1.9	1.0	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	1.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	1.0
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
75°	0.0	0.0	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
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: P1337951

CATALOG NUMBER: P3A05R309740DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	25.2	25.2	25.2	25.2	25.2
2.5°	25.2	19.9	16.5	14.6	14.1
5°	23.8	15.0	10.7	9.2	8.7
7.5°	21.3	11.2	7.3	5.8	5.3
10°	18.4	8.2	4.9	3.4	3.4
12.5°	15.5	6.3	2.9	1.5	1.0
15°	12.6	3.9	1.0	0.5	0.5
17.5°	9.7	2.4	0.0	0.0	0.0
20°	7.8	1.0	0.0	0.0	0.0
22.5°	5.8	0.5	0.0	0.0	0.0
25°	3.9	0.0	0.0	0.0	0.0
27.5°	2.4	0.0	0.0	0.0	0.0
30°	1.5	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	1.0	1.0
50°	0.5	0.5	0.5	1.0	1.5
52.5°	1.0	0.5	1.0	1.5	1.5
55°	1.0	1.0	1.5	1.9	1.9
57.5°	1.0	1.0	1.5	1.9	1.9
60°	1.0	1.0	1.5	1.9	2.4
62.5°	1.5	1.5	1.5	1.9	1.9
65°	1.5	1.5	1.5	1.9	2.4
67.5°	1.5	1.5	1.5	1.9	2.4
70°	1.5	1.5	1.5	1.9	1.9
72.5°	1.9	1.5	1.5	1.9	1.9
75°	1.5	1.5	1.5	1.5	1.5
77.5°	1.5	1.5	1.0	1.5	1.5
80°	1.5	1.0	1.0	1.0	1.0
82.5°	1.5	1.0	1.0	1.0	1.0
85°	1.5	1.0	0.5	0.5	0.5
87.5°	1.5	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)