

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: P1337903

Luminaire Tested: P3A05R309727DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337903
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: P3A05R309727DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

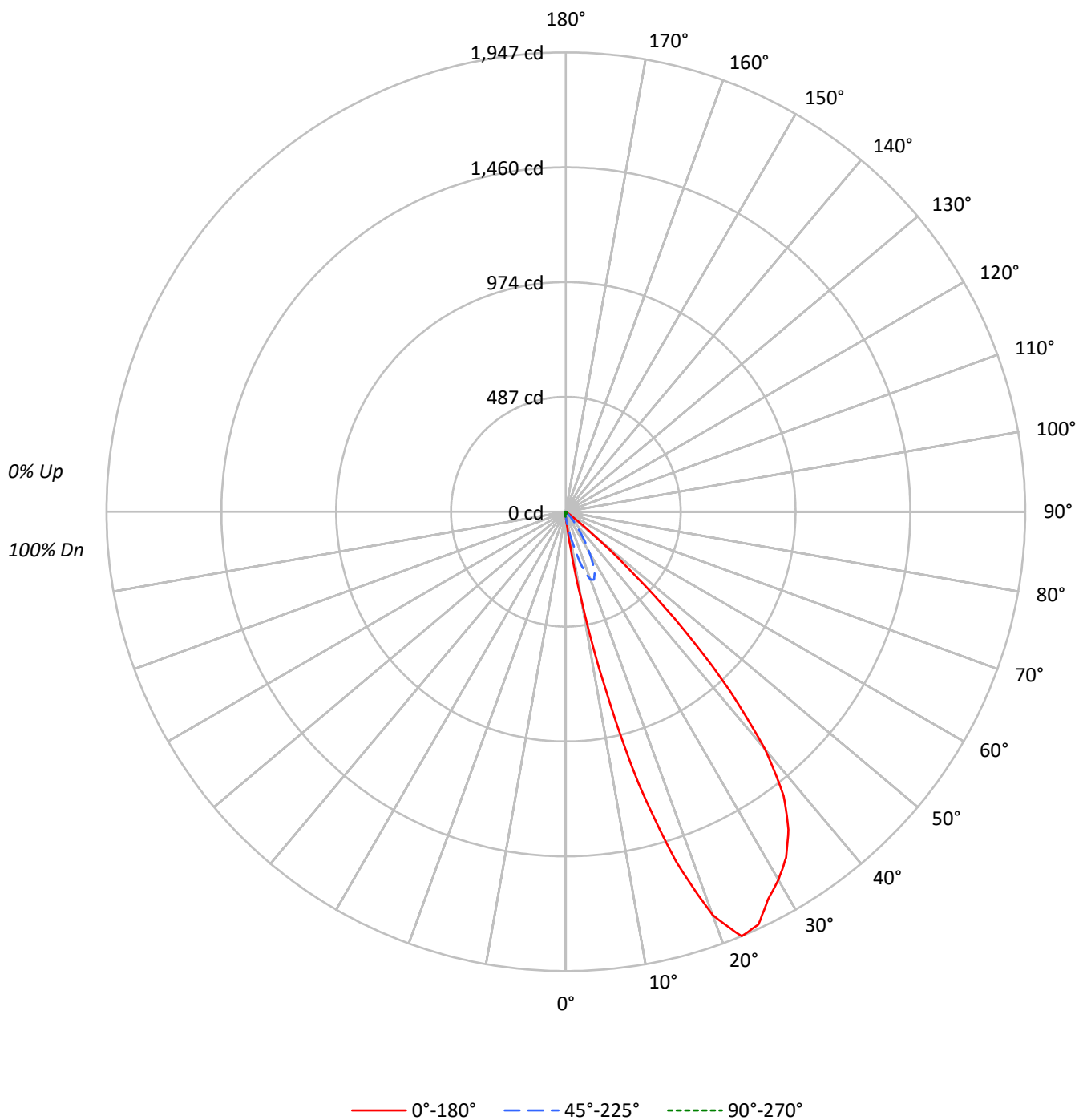
Lumens per Lamp: N/A
Luminaire Lumens: 459.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1337903

CATALOG NUMBER: P3A05R309727DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1337903

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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	0
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	95	92	103	98	94	90	95	92	88		92	89	87		89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79		85	81	78		83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71		78	74	70		76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64		72	67	63		71	66	63	61
6	81	71	64	58	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	67	55	48	43	65	55	48	43	53	47	43		52	47	43		52	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4780	4780	4780	4780	4780
5°	14396	9597	4534	2025	1651
10°	83387	20351	3540	935	646
15°	271261	46175	2474	182	91
20°	424470	71453	1563	0	0
25°	467011	69827	823	0	0
30°	456121	50337	329	0	0
35°	440220	28643	107	0	0
40°	375418	12137	0	0	0
45°	220333	4559	124	0	124
50°	53525	853	136	136	443
55°	4664	0	306	497	650
60°	175	0	351	570	921
65°	208	208	675	675	1090
70°	256	256	833	833	1090
75°	0	339	1101	1101	1101
80°	0	505	1642	1010	1010
85°	0	1006	3271	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 220333 cd/sqm

TEST NUMBER: P1337903

CATALOG NUMBER: P3A05R309727DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.9
10°-20°	63.1	13.7
20°-30°	160.3	34.9
30°-40°	159.8	34.8
40°-50°	64.7	14.1
50°-60°	4.5	1.0
60°-70°	1.0	0.2
70°-80°	1.0	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°	227.4	49.5
0°-40°	387.2	84.4
0°-60°	456.4	99.4
0°-90°	459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	459.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	65	44	21	9	8	15
15°	1195	203	11	1	0	348
25°	1930	289	3	0	0	871
35°	1644	107	0	0	0	1008
45°	710	15	0	0	0	542
55°	12	0	1	1	2	32
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1337903

CATALOG NUMBER: P3A05R309727DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8	21.8
2.5°	36.1	36.5	36.5	35.7	35.2	35.2	34.0	33.6	32.3	31.0	26.8
5°	65.4	64.2	62.5	62.5	58.7	56.6	53.7	50.3	47.8	43.6	31.0
7.5°	148.5	138.4	135.5	131.7	117.4	106.1	93.1	81.8	71.3	62.5	34.4
10°	374.5	354.8	338.5	305.3	263.8	224.0	187.1	144.3	114.9	91.4	36.9
12.5°	754.5	728.1	696.7	636.3	558.7	459.3	371.2	277.2	194.6	134.6	37.7
15°	1194.9	1150.1	1101.0	1024.2	897.1	754.5	595.6	445.8	312.5	203.4	36.9
17.5°	1554.0	1536.3	1463.8	1358.9	1203.3	1019.6	823.7	619.1	421.5	266.3	34.4
20°	1819.0	1806.9	1719.2	1607.6	1432.3	1221.8	973.1	727.3	497.4	306.2	30.6
22.5°	1947.0	1944.9	1881.5	1767.4	1581.6	1343.0	1069.1	789.8	520.9	311.6	25.6
25°	1930.2	1937.7	1901.7	1816.9	1638.7	1392.9	1097.6	789.8	503.7	288.6	21.4
27.5°	1853.8	1858.9	1836.2	1771.2	1605.1	1356.8	1057.8	739.0	453.8	247.9	17.6
30°	1801.4	1803.5	1775.4	1705.8	1529.6	1274.6	963.8	645.1	378.3	198.8	13.0
32.5°	1737.7	1737.2	1704.5	1624.8	1430.6	1159.3	844.7	533.1	290.7	151.0	7.5
35°	1644.5	1634.1	1589.6	1497.8	1283.0	1004.1	692.5	406.0	209.3	107.0	4.6
37.5°	1516.6	1489.4	1426.5	1303.6	1075.8	787.3	513.4	285.2	143.0	70.9	2.9
40°	1311.5	1282.6	1197.0	1047.7	813.7	566.6	346.0	185.8	90.2	42.4	1.7
42.5°	1028.4	1008.7	893.4	744.5	537.3	361.5	208.0	109.9	50.7	24.3	0.4
45°	710.5	684.9	594.3	468.1	322.5	200.5	116.6	57.5	28.9	14.7	0.0
47.5°	392.2	360.7	308.3	242.4	162.3	105.3	58.7	31.0	16.4	7.1	0.0
50°	156.9	155.6	123.7	88.1	62.1	47.8	29.4	16.8	8.4	2.5	0.4
52.5°	54.9	54.9	47.4	38.6	30.2	21.8	14.7	8.0	2.9	0.8	0.4
55°	12.2	13.4	12.6	11.7	11.3	9.6	6.3	2.9	0.8	0.0	0.4
57.5°	1.3	1.3	1.3	1.7	2.1	2.1	1.7	0.8	0.0	0.0	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.8
62.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.4	0.4	0.8
65°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
67.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.3
77.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
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: P1337903

CATALOG NUMBER: P3A05R309727DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	21.8	21.8	21.8	21.8	21.8
2.5°	21.8	17.2	14.3	12.6	12.2
5°	20.6	13.0	9.2	8.0	7.5
7.5°	18.5	9.6	6.3	5.0	4.6
10°	15.9	7.1	4.2	2.9	2.9
12.5°	13.4	5.5	2.5	1.3	0.8
15°	10.9	3.4	0.8	0.4	0.4
17.5°	8.4	2.1	0.0	0.0	0.0
20°	6.7	0.8	0.0	0.0	0.0
22.5°	5.0	0.4	0.0	0.0	0.0
25°	3.4	0.0	0.0	0.0	0.0
27.5°	2.1	0.0	0.0	0.0	0.0
30°	1.3	0.0	0.0	0.0	0.0
32.5°	0.4	0.0	0.0	0.0	0.0
35°	0.4	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°	0.4	0.0	0.0	0.4	0.4
47.5°	0.4	0.4	0.4	0.8	0.8
50°	0.4	0.4	0.4	0.8	1.3
52.5°	0.8	0.4	0.8	1.3	1.3
55°	0.8	0.8	1.3	1.7	1.7
57.5°	0.8	0.8	1.3	1.7	1.7
60°	0.8	0.8	1.3	1.7	2.1
62.5°	1.3	1.3	1.3	1.7	1.7
65°	1.3	1.3	1.3	1.7	2.1
67.5°	1.3	1.3	1.3	1.7	2.1
70°	1.3	1.3	1.3	1.7	1.7
72.5°	1.7	1.3	1.3	1.7	1.7
75°	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	1.3	0.8	1.3	1.3
80°	1.3	0.8	0.8	0.8	0.8
82.5°	1.3	0.8	0.8	0.8	0.8
85°	1.3	0.8	0.4	0.4	0.4
87.5°	1.3	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)