

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: P1337999

Luminaire Tested: P3A05R309835DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337999
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: P3A05R309835DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

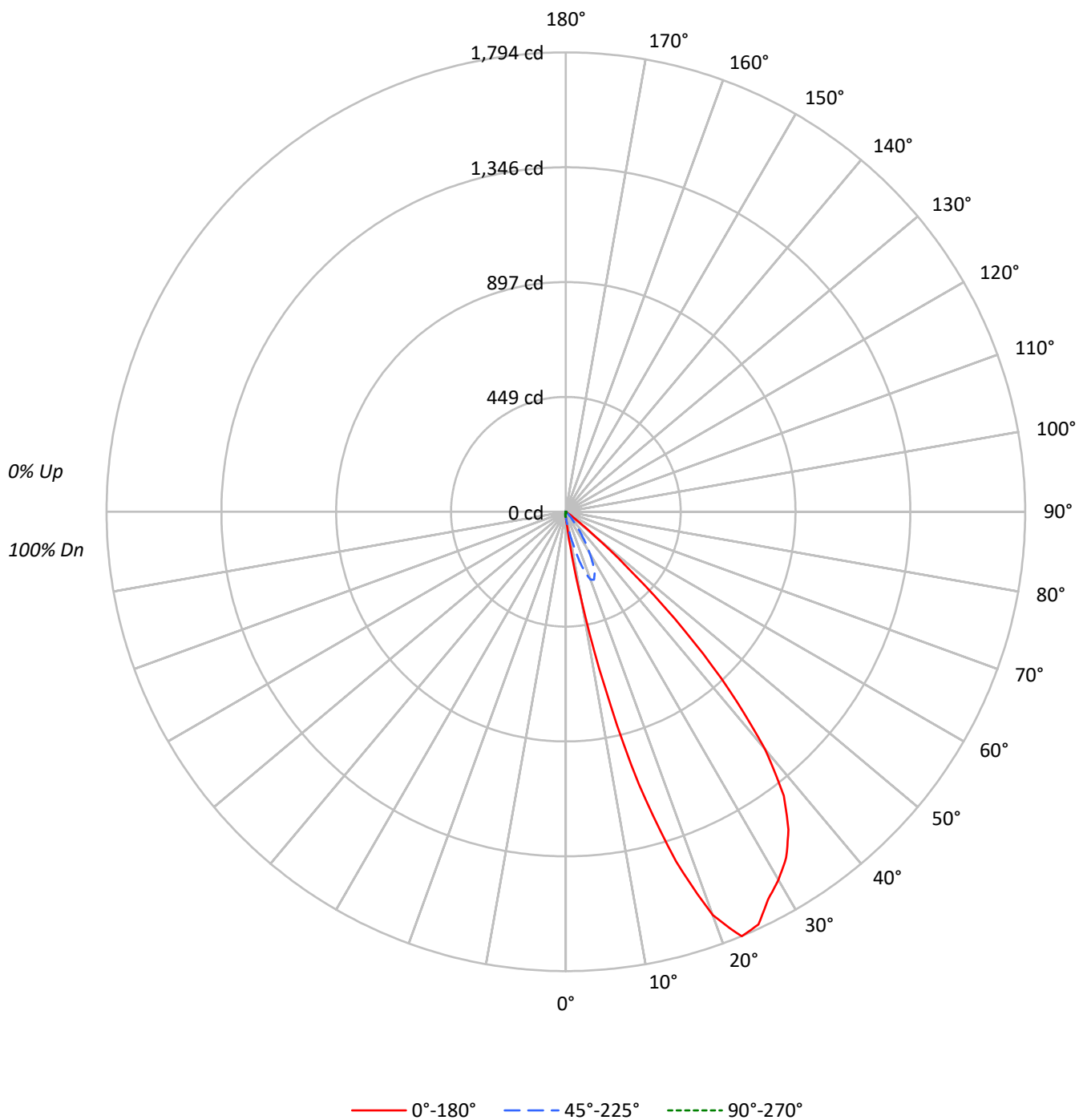
Lumens per Lamp: N/A
Luminaire Lumens: 423.1 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1337999

CATALOG NUMBER: P3A05R309835DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1337999

CATALOG NUMBER: P3A05R309835DE010 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47
9	66	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4408	4408	4408	4408	4408
5°	13273	8849	4160	1871	1541
10°	76863	18771	3273	868	601
15°	249990	42566	2270	182	91
20°	391194	65852	1447	0	0
25°	430380	64334	750	0	0
30°	420343	46387	304	0	0
35°	405714	26394	107	0	0
40°	345991	11164	0	0	0
45°	203060	4186	124	0	124
50°	49329	785	136	136	409
55°	4282	0	306	459	573
60°	175	0	351	526	833
65°	208	208	623	623	986
70°	256	256	769	769	962
75°	0	339	1017	1017	1017
80°	0	505	1515	1010	1010
85°	0	1006	3019	1006	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 203060 cd/sqm

TEST NUMBER: P1337999

CATALOG NUMBER: P3A05R309835DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.9
10°-20°	58.1	13.7
20°-30°	147.7	34.9
30°-40°	147.3	34.8
40°-50°	59.7	14.1
50°-60°	4.1	1.0
60°-70°	0.9	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°	209.6	49.5
0°-40°	356.8	84.3
0°-60°	420.6	99.4
0°-90°	423.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	423.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	60	40	19	8	7	14
15°	1101	188	10	1	0	320
25°	1779	266	3	0	0	803
35°	1516	99	0	0	0	929
45°	655	14	0	0	0	500
55°	11	0	1	1	2	29
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: P1337999

CATALOG NUMBER: P3A05R309835DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
2.5°	33.2	33.6	33.6	32.9	32.5	32.5	31.3	30.9	29.8	28.6	24.7
5°	60.3	59.1	57.6	57.6	54.1	52.2	49.5	46.4	44.1	40.2	28.6
7.5°	136.8	127.6	124.8	121.4	108.2	97.8	85.8	75.4	65.7	57.6	31.7
10°	345.2	327.0	311.9	281.4	243.1	206.4	172.4	133.0	105.9	84.3	34.0
12.5°	695.4	671.0	642.0	586.4	514.9	423.2	342.1	255.5	179.3	124.1	34.8
15°	1101.2	1059.9	1014.6	943.9	826.8	695.4	548.9	410.9	288.0	187.5	34.0
17.5°	1432.1	1415.8	1349.0	1252.3	1108.9	939.6	759.1	570.5	388.5	245.4	31.7
20°	1676.4	1665.2	1584.4	1481.6	1320.0	1125.9	896.7	670.2	458.4	282.2	28.2
22.5°	1794.2	1792.3	1734.0	1628.8	1457.6	1237.7	985.3	727.8	480.1	287.2	23.6
25°	1778.8	1785.7	1752.5	1674.4	1510.2	1283.6	1011.5	727.8	464.2	265.9	19.7
27.5°	1708.4	1713.1	1692.2	1632.3	1479.2	1250.4	974.8	681.1	418.2	228.4	16.2
30°	1660.1	1662.1	1636.2	1572.0	1409.7	1174.6	888.2	594.5	348.6	183.2	12.0
32.5°	1601.4	1601.0	1570.8	1497.4	1318.4	1068.4	778.5	491.3	267.9	139.1	7.0
35°	1515.6	1505.9	1464.9	1380.3	1182.4	925.3	638.2	374.2	192.9	98.6	4.3
37.5°	1397.7	1372.6	1314.6	1201.3	991.4	725.5	473.1	262.8	131.8	65.3	2.7
40°	1208.7	1182.0	1103.1	965.5	749.9	522.2	318.9	171.2	83.1	39.0	1.5
42.5°	947.8	929.6	823.3	686.1	495.1	333.2	191.7	101.3	46.8	22.4	0.4
45°	654.8	631.2	547.7	431.4	297.2	184.8	107.5	53.0	26.7	13.5	0.0
47.5°	361.4	332.4	284.1	223.4	149.6	97.0	54.1	28.6	15.1	6.6	0.0
50°	144.6	143.4	114.0	81.2	57.2	44.1	27.1	15.5	7.7	2.3	0.4
52.5°	50.6	50.6	43.7	35.6	27.8	20.1	13.5	7.3	2.7	0.8	0.4
55°	11.2	12.4	11.6	10.8	10.4	8.9	5.8	2.7	0.8	0.0	0.4
57.5°	1.2	1.2	1.2	1.5	1.9	1.9	1.5	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	1.2
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2
75°	0.0	0.0	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.4	1.2
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: P1337999

CATALOG NUMBER: P3A05R309835DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	20.1	20.1	20.1	20.1	20.1
2.5°	20.1	15.8	13.1	11.6	11.2
5°	18.9	12.0	8.5	7.3	7.0
7.5°	17.0	8.9	5.8	4.6	4.3
10°	14.7	6.6	3.9	2.7	2.7
12.5°	12.4	5.0	2.3	1.2	0.8
15°	10.0	3.1	0.8	0.4	0.4
17.5°	7.7	1.9	0.0	0.0	0.0
20°	6.2	0.8	0.0	0.0	0.0
22.5°	4.6	0.4	0.0	0.0	0.0
25°	3.1	0.0	0.0	0.0	0.0
27.5°	1.9	0.0	0.0	0.0	0.0
30°	1.2	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	1.2
52.5°	0.8	0.4	0.8	1.2	1.2
55°	0.8	0.8	1.2	1.5	1.5
57.5°	0.8	0.8	1.2	1.5	1.5
60°	0.8	0.8	1.2	1.5	1.9
62.5°	1.2	1.2	1.2	1.5	1.5
65°	1.2	1.2	1.2	1.5	1.9
67.5°	1.2	1.2	1.2	1.5	1.9
70°	1.2	1.2	1.2	1.5	1.5
72.5°	1.5	1.2	1.2	1.5	1.5
75°	1.2	1.2	1.2	1.2	1.2
77.5°	1.2	1.2	0.8	1.2	1.2
80°	1.2	0.8	0.8	0.8	0.8
82.5°	1.2	0.8	0.8	0.8	0.8
85°	1.2	0.8	0.4	0.4	0.4
87.5°	1.2	0.8	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)