

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: P1339503

Luminaire Tested: P3A05R459827DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459827DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

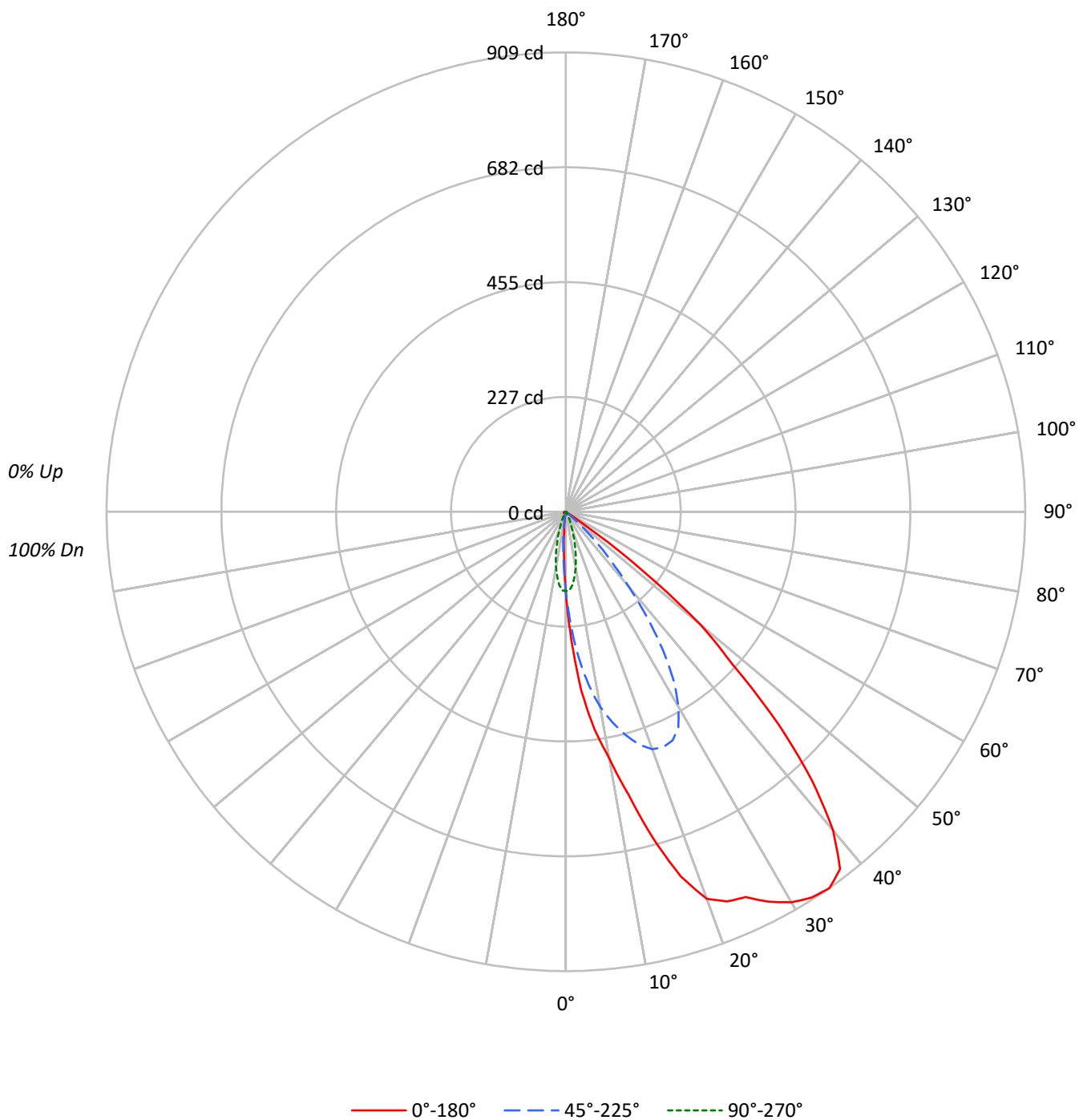
Lumens per Lamp: N/A
Luminaire Lumens: 412.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1339503

CATALOG NUMBER: P3A05R459827DE010 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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	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°	34383	34383	34383	34383	34383
5°	78340	63548	32159	12899	8805
10°	110397	87306	24849	2828	1314
15°	152146	103883	15868	931	772
20°	190230	116677	8284	653	653
25°	203576	120805	3823	508	581
30°	225959	112802	1747	532	608
35°	243413	89918	562	562	750
40°	235527	55733	286	687	887
45°	184949	26297	310	868	1054
50°	118819	3070	478	1058	1399
55°	18045	268	535	1300	1720
60°	307	307	614	1491	1798
65°	363	363	726	1608	2127
70°	449	449	898	1795	2436
75°	254	593	1186	2033	2626
80°	379	884	1263	2147	3031
85°	0	755	1761	2516	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 184949 cd/sqm

TEST NUMBER: P1339503

CATALOG NUMBER: P3A05R459827DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.2	4.2
10°-20°	62.0	15.1
20°-30°	109.0	26.5
30°-40°	123.8	30.0
40°-50°	80.1	19.4
50°-60°	15.7	3.8
60°-70°	1.9	0.5
70°-80°	1.6	0.4
80°-90°	0.7	0.2
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°	188.2	45.7
0°-40°	311.9	75.7
0°-60°	407.8	99.0
0°-90°	412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	412.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	157	157	157	157	157	
5°	356	289	146	59	40	38
15°	670	458	70	4	3	193
25°	841	499	16	2	2	394
35°	909	336	2	2	3	559
45°	596	85	1	3	3	450
55°	47	1	1	3	4	90
65°	1	1	1	3	4	1
75°	0	1	1	2	3	0
85°	0	0	1	1	1	0
90°	0	0	0	0	0	

TEST NUMBER: P1339503

CATALOG NUMBER: P3A05R459827DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8
2.5°	254.6	253.9	255.0	248.1	247.7	242.6	241.2	235.3	227.4	223.6	214.7
5°	355.9	352.5	352.5	344.2	341.5	335.6	325.6	313.2	302.9	288.7	273.6
7.5°	434.1	433.5	433.5	426.2	419.3	411.1	397.6	383.5	367.0	345.2	323.2
10°	495.8	496.9	493.8	487.2	477.2	468.3	452.4	435.2	414.8	392.1	362.8
12.5°	573.7	566.1	563.7	548.9	536.1	518.9	500.0	480.3	455.2	426.6	393.5
15°	670.2	660.5	650.9	631.2	609.9	583.3	553.7	524.8	492.4	457.6	416.2
17.5°	756.3	756.3	743.6	712.5	685.0	645.7	605.7	567.1	528.9	483.1	431.4
20°	815.2	812.1	802.5	779.7	748.4	703.9	651.9	597.8	551.6	500.0	440.0
22.5°	834.5	833.8	834.2	820.7	795.6	749.4	685.7	621.9	564.0	504.1	435.9
25°	841.4	842.8	846.2	841.1	822.1	775.9	706.3	633.3	567.8	499.3	420.0
27.5°	870.0	867.3	871.0	867.6	846.2	791.1	710.5	630.5	559.6	481.7	391.8
30°	892.4	891.7	898.3	895.2	867.3	800.8	706.7	620.2	539.2	445.5	347.3
32.5°	905.2	905.5	907.2	894.5	853.1	779.7	688.1	599.2	501.0	398.3	289.4
35°	909.3	907.2	897.6	866.2	809.7	731.2	642.3	549.2	449.0	335.9	228.8
37.5°	891.4	880.7	855.9	809.0	743.6	670.2	583.7	486.2	377.6	265.3	170.6
40°	822.8	808.7	777.3	729.4	668.4	597.5	508.9	406.9	292.9	194.7	119.9
42.5°	720.1	712.9	680.2	638.5	586.8	515.1	423.8	320.4	216.7	134.4	76.5
45°	596.4	587.1	566.5	529.6	488.9	413.8	328.7	229.5	147.8	84.8	37.9
47.5°	447.2	447.9	433.8	405.9	365.9	303.2	225.0	154.0	92.7	43.8	8.6
50°	348.3	343.5	323.5	294.9	248.4	201.9	145.4	97.2	48.9	9.0	0.7
52.5°	193.0	196.1	185.4	176.1	152.0	120.6	85.8	49.3	10.3	1.0	0.7
55°	47.2	50.0	47.9	48.9	50.7	45.1	34.8	9.6	1.0	0.7	0.7
57.5°	1.0	1.0	1.0	1.0	1.7	2.4	2.4	0.7	0.7	0.7	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
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: P1339503

CATALOG NUMBER: P3A05R459827DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8
2.5°	210.2	203.6	191.6	155.7	125.1	101.0	86.5	85.1
5°	260.1	242.6	217.1	146.1	92.3	58.6	42.4	40.0
7.5°	299.8	275.0	235.7	130.2	63.1	30.0	16.5	13.8
10°	332.5	297.4	245.3	111.6	39.6	12.7	6.9	5.9
12.5°	354.9	312.5	247.0	91.0	22.7	6.2	4.5	4.1
15°	369.4	317.3	238.8	69.9	12.7	4.1	3.8	3.4
17.5°	375.2	313.2	222.9	50.7	6.9	3.1	3.1	3.1
20°	372.5	299.8	199.5	35.5	4.5	2.8	2.8	2.8
22.5°	359.4	276.7	170.2	23.8	3.1	2.4	2.4	2.4
25°	333.5	245.3	139.2	15.8	2.1	2.1	2.4	2.4
27.5°	294.9	206.7	106.5	10.7	1.7	2.1	2.4	2.4
30°	246.4	163.7	76.5	6.9	1.7	2.1	2.1	2.4
32.5°	195.7	119.2	50.3	4.1	1.4	2.1	2.4	2.8
35°	142.0	81.3	32.0	2.1	1.7	2.1	2.4	2.8
37.5°	99.6	53.1	18.6	1.4	1.7	2.1	2.8	2.8
40°	64.8	29.6	6.9	1.0	1.7	2.4	2.8	3.1
42.5°	33.8	10.3	1.4	1.0	1.7	2.4	3.1	3.4
45°	8.6	1.4	0.3	1.0	2.1	2.8	3.4	3.4
47.5°	1.0	0.3	0.3	1.4	2.1	3.1	3.4	3.8
50°	0.3	0.7	0.7	1.4	2.1	3.1	3.8	4.1
52.5°	0.7	0.7	0.7	1.4	2.4	3.1	4.1	4.5
55°	0.7	0.7	0.7	1.4	2.4	3.4	4.1	4.5
57.5°	0.7	0.7	0.7	1.4	2.4	3.4	4.1	4.1
60°	0.7	0.7	0.7	1.4	2.4	3.4	4.1	4.1
62.5°	0.7	0.7	1.0	1.4	2.4	3.1	4.1	4.1
65°	0.7	1.0	1.0	1.4	2.4	3.1	3.8	4.1
67.5°	0.7	0.7	1.0	1.4	2.4	3.1	3.8	4.1
70°	0.7	0.7	1.0	1.4	2.1	2.8	3.4	3.8
72.5°	0.7	0.7	1.0	1.4	2.1	2.8	3.1	3.4
75°	0.7	0.7	1.0	1.4	1.7	2.4	3.1	3.1
77.5°	0.7	0.7	1.0	1.0	1.7	2.1	2.8	2.8
80°	0.7	0.7	1.0	1.0	1.4	1.7	2.1	2.4
82.5°	0.7	0.7	0.7	1.0	1.0	1.4	1.7	1.7
85°	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0
87.5°	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)