

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: P1335077

Luminaire Tested: P3A02R309730DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335077
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: P3A02R309730DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 97CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

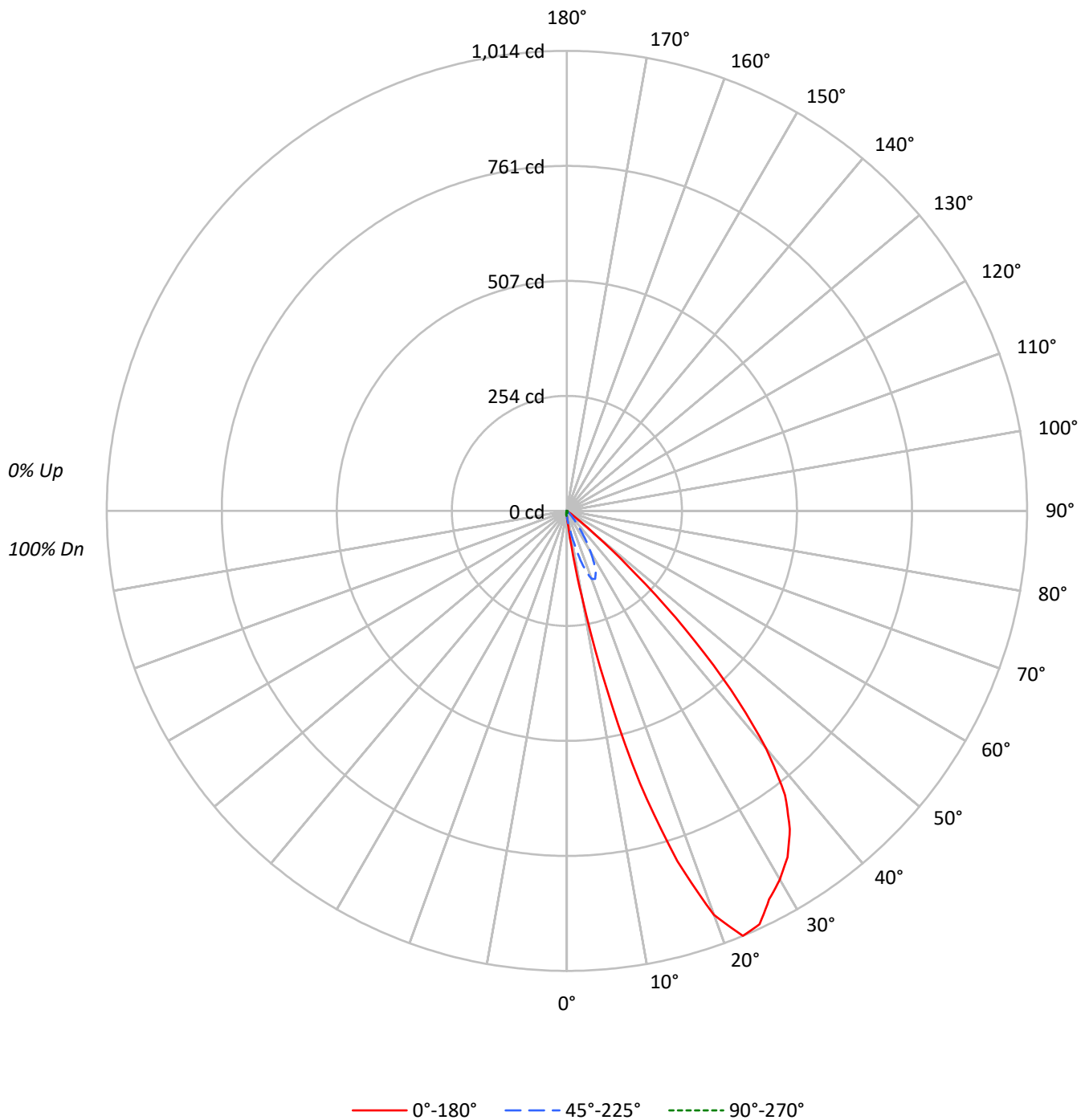
Lumens per Lamp: N/A
Luminaire Lumens: 239.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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: P1335077

CATALOG NUMBER: P3A02R309730DE010 E3CA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1335077

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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	88	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	67	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°	2500	2500	2500	2500	2500
5°	7506	4997	2355	1057	858
10°	43419	10599	1848	490	334
15°	141249	24041	1294	91	45
20°	221033	37197	817	0	0
25°	243159	36365	411	0	0
30°	237505	26207	177	0	0
35°	229225	14910	54	0	0
40°	195481	6326	0	0	0
45°	114741	2357	62	0	62
50°	27871	443	68	68	239
55°	2409	0	153	268	344
60°	88	0	175	307	482
65°	104	104	363	363	571
70°	128	128	449	449	577
75°	0	169	593	593	593
80°	0	253	884	505	505
85°	0	503	1761	503	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 114741 cd/sqm

TEST NUMBER: P1335077

CATALOG NUMBER: P3A02R309730DE010 E3CA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.9
10°-20°	32.8	13.7
20°-30°	83.5	34.9
30°-40°	83.2	34.8
40°-50°	33.7	14.1
50°-60°	2.3	1.0
60°-70°	0.5	0.2
70°-80°	0.5	0.2
80°-90°	0.3	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°	118.4	49.5
0°-40°	201.6	84.4
0°-60°	237.6	99.4
0°-90°	239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	239.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11	11	11	11	11	
5°	34	23	11	5	4	8
15°	622	106	6	0	0	181
25°	1005	150	2	0	0	454
35°	856	56	0	0	0	525
45°	370	8	0	0	0	282
55°	6	0	0	1	1	17
65°	0	0	1	1	1	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1335077

CATALOG NUMBER: P3A02R309730DE010 E3CA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
2.5°	18.8	19.0	19.0	18.6	18.3	18.3	17.7	17.5	16.8	16.2	14.0
5°	34.1	33.4	32.5	32.5	30.6	29.5	28.0	26.2	24.9	22.7	16.2
7.5°	77.3	72.1	70.5	68.6	61.1	55.3	48.5	42.6	37.1	32.5	17.9
10°	195.0	184.8	176.2	159.0	137.4	116.6	97.4	75.1	59.8	47.6	19.2
12.5°	392.9	379.1	362.7	331.3	290.9	239.1	193.3	144.4	101.3	70.1	19.7
15°	622.2	598.8	573.3	533.3	467.1	392.9	310.1	232.1	162.7	105.9	19.2
17.5°	809.1	800.0	762.2	707.6	626.6	530.9	428.9	322.3	219.5	138.7	17.9
20°	947.2	940.8	895.2	837.1	745.8	636.2	506.7	378.7	259.0	159.4	15.9
22.5°	1013.8	1012.7	979.7	920.3	823.6	699.3	556.7	411.2	271.2	162.3	13.3
25°	1005.0	1009.0	990.2	946.1	853.3	725.3	571.5	411.2	262.3	150.3	11.1
27.5°	965.3	967.9	956.1	922.3	835.8	706.5	550.8	384.8	236.3	129.1	9.2
30°	938.0	939.1	924.5	888.2	796.5	663.7	501.9	335.9	197.0	103.5	6.8
32.5°	904.8	904.6	887.5	846.0	744.9	603.6	439.8	277.6	151.3	78.6	3.9
35°	856.3	850.9	827.7	779.9	668.1	522.8	360.6	211.4	109.0	55.7	2.4
37.5°	789.7	775.5	742.7	678.8	560.2	409.9	267.3	148.5	74.5	36.9	1.5
40°	682.9	667.8	623.3	545.5	423.7	295.0	180.2	96.7	47.0	22.1	0.9
42.5°	535.5	525.2	465.2	387.6	279.8	188.3	108.3	57.2	26.4	12.7	0.2
45°	370.0	356.6	309.5	243.7	167.9	104.4	60.7	29.9	15.1	7.6	0.0
47.5°	204.2	187.8	160.5	126.2	84.5	54.8	30.6	16.2	8.5	3.7	0.0
50°	81.7	81.0	64.4	45.9	32.3	24.9	15.3	8.7	4.4	1.3	0.2
52.5°	28.6	28.6	24.7	20.1	15.7	11.4	7.6	4.1	1.5	0.4	0.2
55°	6.3	7.0	6.6	6.1	5.9	5.0	3.3	1.5	0.4	0.0	0.2
57.5°	0.7	0.7	0.7	0.9	1.1	1.1	0.9	0.4	0.0	0.0	0.2
60°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.4
62.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.2	0.4
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
67.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
70°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
72.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.7
75°	0.0	0.0	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.2	0.7
77.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
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: P1335077

CATALOG NUMBER: P3A02R309730DE010 E3CA301MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	11.4	11.4	11.4	11.4	11.4
2.5°	11.4	9.0	7.4	6.6	6.3
5°	10.7	6.8	4.8	4.1	3.9
7.5°	9.6	5.0	3.3	2.6	2.4
10°	8.3	3.7	2.2	1.5	1.5
12.5°	7.0	2.8	1.3	0.7	0.4
15°	5.7	1.7	0.4	0.2	0.2
17.5°	4.4	1.1	0.0	0.0	0.0
20°	3.5	0.4	0.0	0.0	0.0
22.5°	2.6	0.2	0.0	0.0	0.0
25°	1.7	0.0	0.0	0.0	0.0
27.5°	1.1	0.0	0.0	0.0	0.0
30°	0.7	0.0	0.0	0.0	0.0
32.5°	0.2	0.0	0.0	0.0	0.0
35°	0.2	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°	0.2	0.0	0.0	0.2	0.2
47.5°	0.2	0.2	0.2	0.4	0.4
50°	0.2	0.2	0.2	0.4	0.7
52.5°	0.4	0.2	0.4	0.7	0.7
55°	0.4	0.4	0.7	0.9	0.9
57.5°	0.4	0.4	0.7	0.9	0.9
60°	0.4	0.4	0.7	0.9	1.1
62.5°	0.7	0.7	0.7	0.9	0.9
65°	0.7	0.7	0.7	0.9	1.1
67.5°	0.7	0.7	0.7	0.9	1.1
70°	0.7	0.7	0.7	0.9	0.9
72.5°	0.9	0.7	0.7	0.9	0.9
75°	0.7	0.7	0.7	0.7	0.7
77.5°	0.7	0.7	0.4	0.7	0.7
80°	0.7	0.4	0.4	0.4	0.4
82.5°	0.7	0.4	0.4	0.4	0.4
85°	0.7	0.4	0.2	0.2	0.2
87.5°	0.7	0.4	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)