

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: P1335029

Luminaire Tested: P3A02R309040DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1335029
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: P3A02R309040DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

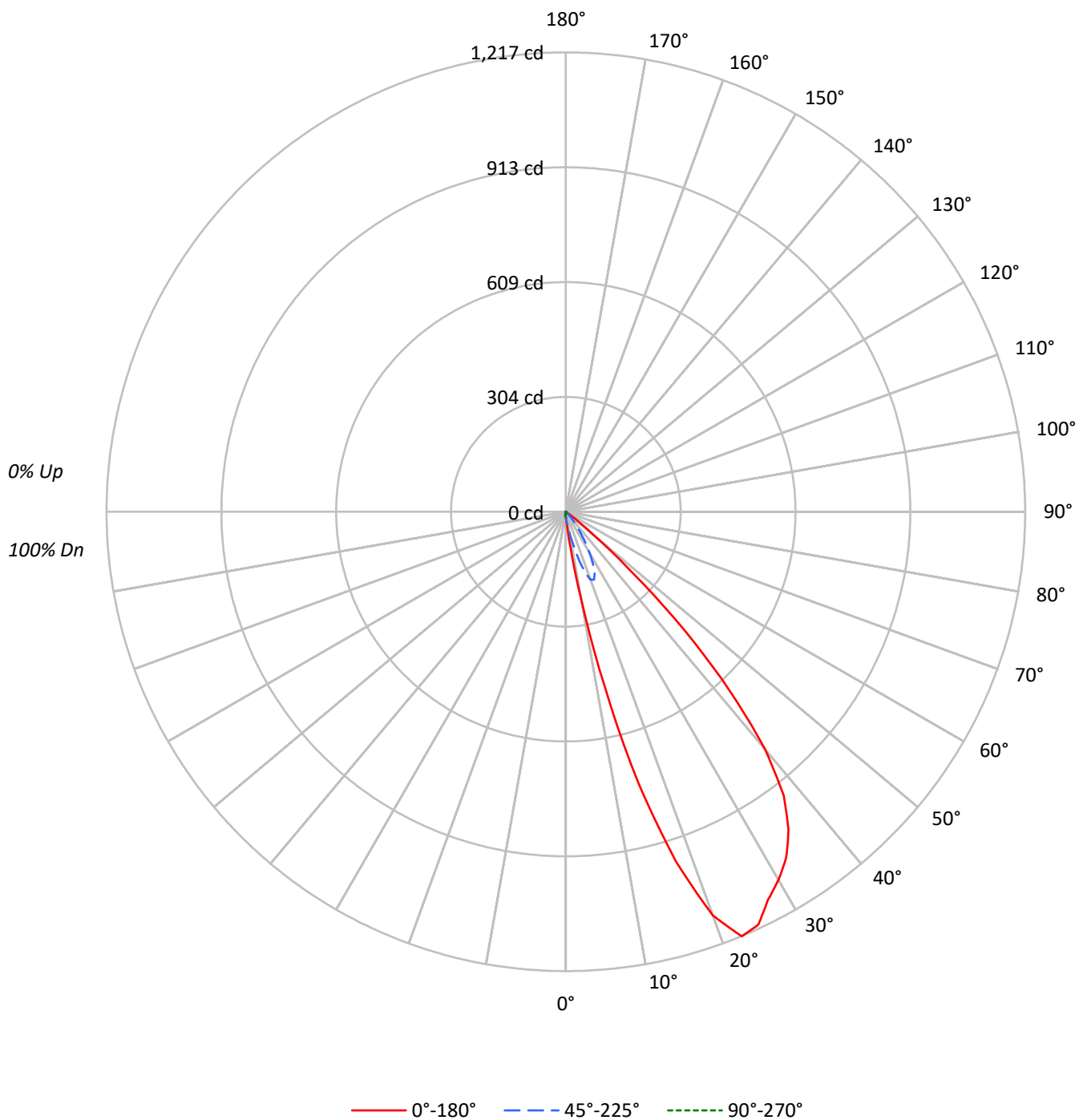
Lumens per Lamp: N/A
Luminaire Lumens: 287.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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
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	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°	2982	2982	2982	2982	2982
5°	9003	6009	2840	1277	1035
10°	52148	12736	2227	579	401
15°	169626	28876	1544	114	68
20°	265416	44664	980	0	0
25°	292009	43648	508	0	0
30°	285208	31473	203	0	0
35°	275268	17909	80	0	0
40°	234754	7586	0	0	0
45°	137782	2853	93	0	93
50°	33466	546	102	102	273
55°	2906	0	191	306	382
60°	132	0	219	351	570
65°	156	156	415	415	675
70°	192	192	513	513	641
75°	0	254	678	678	678
80°	0	379	1010	631	631
85°	0	755	2013	755	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 137782 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.5	0.9
10°-20°	39.4	13.7
20°-30°	100.2	34.9
30°-40°	99.9	34.8
40°-50°	40.5	14.1
50°-60°	2.8	1.0
60°-70°	0.6	0.2
70°-80°	0.6	0.2
80°-90°	0.4	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°	142.2	49.5
0°-40°	242.1	84.3
0°-60°	285.4	99.4
0°-90°	287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	287.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	41	27	13	6	5	9
15°	747	127	7	0	0	217
25°	1207	180	2	0	0	545
35°	1028	67	0	0	0	630
45°	444	9	0	0	0	339
55°	8	0	0	1	1	20
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
2.5°	22.6	22.8	22.8	22.3	22.0	22.0	21.2	21.0	20.2	19.4	16.8
5°	40.9	40.1	39.1	39.1	36.7	35.4	33.6	31.5	29.9	27.3	19.4
7.5°	92.8	86.5	84.7	82.3	73.4	66.3	58.2	51.1	44.6	39.1	21.5
10°	234.2	221.9	211.6	190.9	165.0	140.0	117.0	90.2	71.9	57.2	23.1
12.5°	471.8	455.3	435.6	397.8	349.3	287.2	232.1	173.3	121.7	84.2	23.6
15°	747.2	719.1	688.4	640.4	561.0	471.8	372.4	278.8	195.4	127.2	23.1
17.5°	971.6	960.6	915.3	849.7	752.4	637.5	515.1	387.1	263.6	166.5	21.5
20°	1137.4	1129.8	1075.0	1005.2	895.6	763.9	608.4	454.7	311.0	191.4	19.1
22.5°	1217.4	1216.1	1176.5	1105.1	989.0	839.7	668.5	493.8	325.7	194.9	16.0
25°	1206.9	1211.6	1189.1	1136.1	1024.6	870.9	686.3	493.8	315.0	180.4	13.4
27.5°	1159.2	1162.3	1148.1	1107.5	1003.6	848.4	661.4	462.1	283.8	155.0	11.0
30°	1126.4	1127.7	1110.1	1066.6	956.4	797.0	602.7	403.3	236.6	124.3	8.1
32.5°	1086.5	1086.2	1065.8	1016.0	894.5	724.9	528.2	333.3	181.7	94.4	4.7
35°	1028.3	1021.7	993.9	936.5	802.2	627.8	433.0	253.9	130.9	66.9	2.9
37.5°	948.3	931.3	891.9	815.1	672.7	492.2	321.0	178.3	89.4	44.3	1.8
40°	820.1	802.0	748.5	655.1	508.8	354.3	216.4	116.2	56.4	26.5	1.0
42.5°	643.0	630.7	558.6	465.5	335.9	226.1	130.1	68.7	31.7	15.2	0.3
45°	444.3	428.3	371.6	292.7	201.7	125.4	72.9	35.9	18.1	9.2	0.0
47.5°	245.2	225.5	192.8	151.6	101.5	65.8	36.7	19.4	10.2	4.5	0.0
50°	98.1	97.3	77.4	55.1	38.8	29.9	18.4	10.5	5.2	1.6	0.3
52.5°	34.4	34.4	29.6	24.1	18.9	13.6	9.2	5.0	1.8	0.5	0.3
55°	7.6	8.4	7.9	7.3	7.1	6.0	3.9	1.8	0.5	0.0	0.3
57.5°	0.8	0.8	0.8	1.0	1.3	1.3	1.0	0.5	0.0	0.0	0.3
60°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.5
62.5°	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.5
65°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
67.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
70°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.8
75°	0.0	0.0	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.8
77.5°	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	13.6	13.6	13.6	13.6	13.6
2.5°	13.6	10.8	8.9	7.9	7.6
5°	12.9	8.1	5.8	5.0	4.7
7.5°	11.5	6.0	3.9	3.1	2.9
10°	10.0	4.5	2.6	1.8	1.8
12.5°	8.4	3.4	1.6	0.8	0.5
15°	6.8	2.1	0.5	0.3	0.3
17.5°	5.2	1.3	0.0	0.0	0.0
20°	4.2	0.5	0.0	0.0	0.0
22.5°	3.1	0.3	0.0	0.0	0.0
25°	2.1	0.0	0.0	0.0	0.0
27.5°	1.3	0.0	0.0	0.0	0.0
30°	0.8	0.0	0.0	0.0	0.0
32.5°	0.3	0.0	0.0	0.0	0.0
35°	0.3	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°	0.3	0.0	0.0	0.3	0.3
47.5°	0.3	0.3	0.3	0.5	0.5
50°	0.3	0.3	0.3	0.5	0.8
52.5°	0.5	0.3	0.5	0.8	0.8
55°	0.5	0.5	0.8	1.0	1.0
57.5°	0.5	0.5	0.8	1.0	1.0
60°	0.5	0.5	0.8	1.0	1.3
62.5°	0.8	0.8	0.8	1.0	1.0
65°	0.8	0.8	0.8	1.0	1.3
67.5°	0.8	0.8	0.8	1.0	1.3
70°	0.8	0.8	0.8	1.0	1.0
72.5°	1.0	0.8	0.8	1.0	1.0
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.5	0.8	0.8
80°	0.8	0.5	0.5	0.5	0.5
82.5°	0.8	0.5	0.5	0.5	0.5
85°	0.8	0.5	0.3	0.3	0.3
87.5°	0.8	0.5	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)