

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: P1343097

Luminaire Tested: P3A09R459840DE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1343097
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: P3A09R459840DE010 E3CA301MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

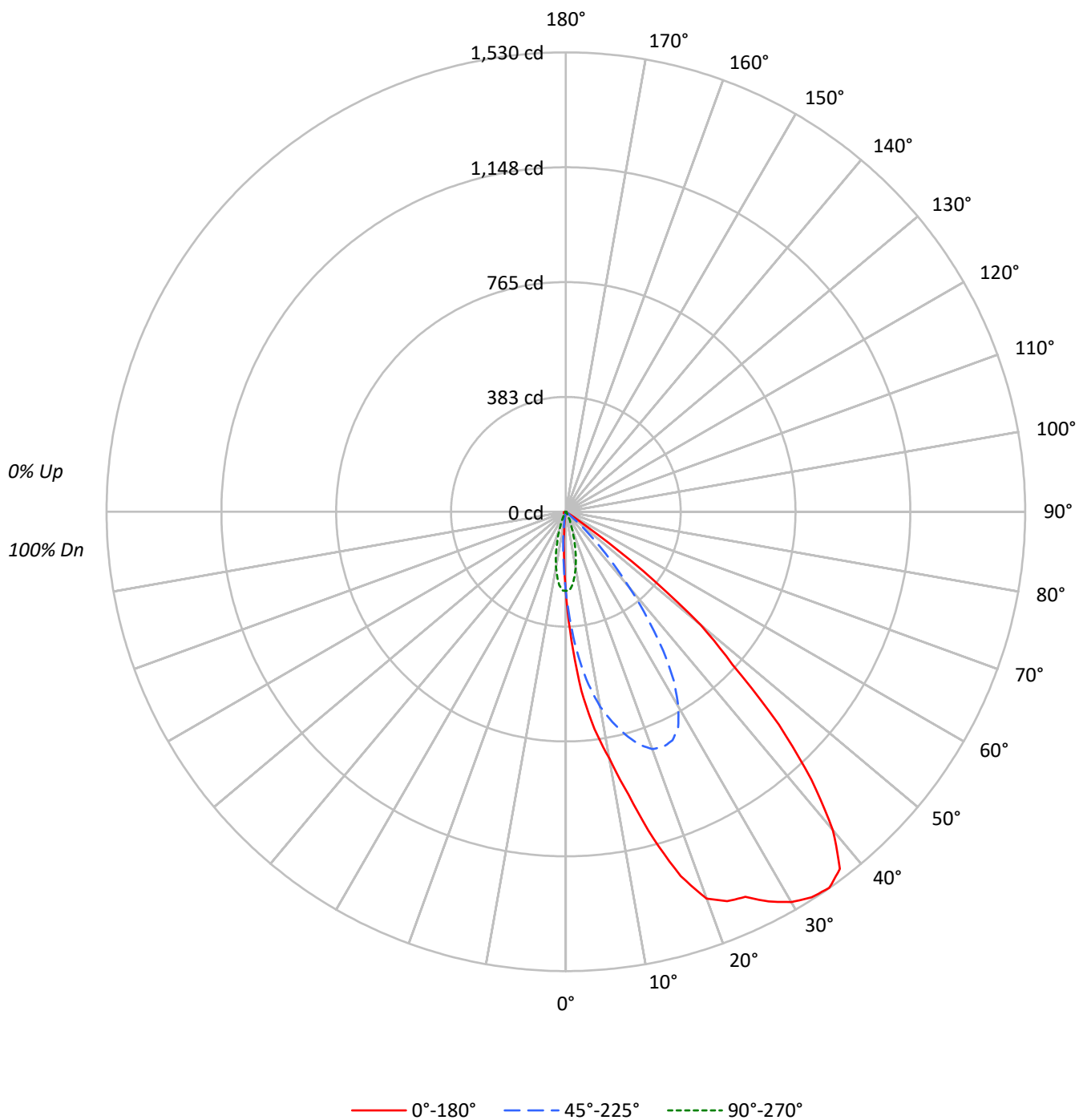
Lumens per Lamp: N/A
Luminaire Lumens: 693.1 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	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°	57824	57824	57824	57824	57824
5°	131785	106911	54083	21682	14792
10°	185701	146847	41816	4765	2204
15°	255893	174734	26720	1589	1317
20°	319974	196227	13931	1073	1073
25°	342431	203189	6460	847	992
30°	380084	189751	2937	886	1038
35°	409435	151273	937	937	1231
40°	396171	93747	487	1174	1489
45°	311102	44222	527	1427	1799
50°	199874	5151	785	1774	2388
55°	30355	459	879	2217	2867
60°	526	526	1009	2544	3070
65°	623	623	1193	2698	3632
70°	769	769	1475	2949	4103
75°	508	1017	1949	3474	4406
80°	758	1515	2147	3662	5177
85°	0	1510	3019	4277	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 311102 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	4.2
10°-20°	104.3	15.1
20°-30°	183.3	26.5
30°-40°	208.2	30.0
40°-50°	134.8	19.4
50°-60°	26.5	3.8
60°-70°	3.2	0.5
70°-80°	2.7	0.4
80°-90°	1.2	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°	316.5	45.7
0°-40°	524.7	75.7
0°-60°	685.9	99.0
0°-90°	693.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	264	264	264	264	264	
5°	599	486	246	98	67	64
15°	1127	770	118	7	6	325
25°	1415	840	27	4	4	663
35°	1530	565	4	4	5	940
45°	1003	143	2	5	6	756
55°	79	1	2	6	8	152
65°	1	1	2	5	7	1
75°	1	1	2	4	5	1
85°	0	1	1	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7
2.5°	428.3	427.1	428.9	417.3	416.7	408.0	405.7	395.8	382.5	376.1	361.1
5°	598.7	592.9	592.9	579.0	574.3	564.5	547.7	526.8	509.4	485.7	460.2
7.5°	730.2	729.1	729.1	716.9	705.3	691.4	668.8	645.1	617.2	580.7	543.6
10°	834.0	835.7	830.5	819.5	802.7	787.6	761.0	732.0	697.8	659.5	610.3
12.5°	965.0	952.2	948.2	923.2	901.8	872.8	840.9	807.9	765.6	717.5	661.9
15°	1127.2	1111.0	1094.8	1061.8	1025.8	981.2	931.4	882.7	828.2	769.7	700.1
17.5°	1272.1	1272.1	1250.7	1198.5	1152.2	1086.1	1018.9	954.0	889.6	812.5	725.6
20°	1371.2	1366.0	1349.8	1311.5	1258.8	1184.0	1096.5	1005.5	927.9	840.9	740.1
22.5°	1403.7	1402.5	1403.1	1380.5	1338.2	1260.5	1153.3	1046.1	948.7	847.9	733.1
25°	1415.3	1417.6	1423.4	1414.7	1382.8	1305.2	1188.1	1065.2	955.1	839.8	706.5
27.5°	1463.4	1458.8	1465.1	1459.3	1423.4	1330.7	1195.1	1060.6	941.2	810.2	659.0
30°	1501.1	1499.9	1510.9	1505.7	1458.8	1346.9	1188.7	1043.2	907.0	749.4	584.2
32.5°	1522.5	1523.1	1526.0	1504.5	1435.0	1311.5	1157.4	1007.9	842.7	670.0	486.8
35°	1529.5	1526.0	1509.8	1457.0	1362.0	1229.8	1080.3	923.8	755.2	565.1	384.8
37.5°	1499.3	1481.4	1439.6	1360.8	1250.7	1127.2	981.8	817.8	635.2	446.3	286.9
40°	1384.0	1360.2	1307.5	1226.9	1124.3	1005.0	856.0	684.5	492.6	327.5	201.7
42.5°	1211.3	1199.1	1144.1	1073.9	987.0	866.4	712.9	539.0	364.5	226.0	128.7
45°	1003.2	987.6	952.8	890.8	822.4	696.1	552.9	386.0	248.6	142.6	63.8
47.5°	752.3	753.4	729.7	682.7	615.5	510.0	378.5	259.1	155.9	73.6	14.5
50°	585.9	577.8	544.2	496.1	417.9	339.6	244.6	163.4	82.3	15.1	1.2
52.5°	324.6	329.8	311.8	296.2	255.6	202.8	144.3	82.9	17.4	1.7	1.2
55°	79.4	84.0	80.6	82.3	85.2	75.9	58.5	16.2	1.7	1.2	1.2
57.5°	1.7	1.7	1.7	1.7	2.9	4.1	4.1	1.2	1.2	1.2	1.2
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	263.7	263.7	263.7	263.7	263.7	263.7	263.7	263.7
2.5°	353.5	342.5	322.2	262.0	210.4	169.8	145.5	143.2
5°	437.6	408.0	365.1	245.7	155.3	98.5	71.3	67.2
7.5°	504.2	462.5	396.4	219.1	106.1	50.4	27.8	23.2
10°	559.3	500.2	412.6	187.8	66.6	21.4	11.6	9.9
12.5°	596.9	525.7	415.5	153.0	38.3	10.4	7.5	7.0
15°	621.3	533.8	401.6	117.7	21.4	7.0	6.4	5.8
17.5°	631.1	526.8	375.0	85.2	11.6	5.2	5.2	5.2
20°	626.5	504.2	335.6	59.7	7.5	4.6	4.6	4.6
22.5°	604.5	465.4	286.3	40.0	5.2	4.1	4.1	4.1
25°	561.0	412.6	234.1	26.7	3.5	3.5	4.1	4.1
27.5°	496.1	347.7	179.1	18.0	2.9	3.5	4.1	4.1
30°	414.4	275.3	128.7	11.6	2.9	3.5	3.5	4.1
32.5°	329.2	200.5	84.6	7.0	2.3	3.5	4.1	4.6
35°	238.8	136.8	53.9	3.5	2.9	3.5	4.1	4.6
37.5°	167.5	89.3	31.3	2.3	2.9	3.5	4.6	4.6
40°	109.0	49.8	11.6	1.7	2.9	4.1	4.6	5.2
42.5°	56.8	17.4	2.3	1.7	2.9	4.1	5.2	5.8
45°	14.5	2.3	0.6	1.7	3.5	4.6	5.8	5.8
47.5°	1.7	0.6	0.6	2.3	3.5	5.2	5.8	6.4
50°	0.6	1.2	1.2	2.3	3.5	5.2	6.4	7.0
52.5°	1.2	1.2	1.2	2.3	4.1	5.2	7.0	7.5
55°	1.2	1.2	1.2	2.3	4.1	5.8	7.0	7.5
57.5°	1.2	1.2	1.2	2.3	4.1	5.8	7.0	7.0
60°	1.2	1.2	1.2	2.3	4.1	5.8	7.0	7.0
62.5°	1.2	1.2	1.7	2.3	4.1	5.2	7.0	7.0
65°	1.2	1.7	1.7	2.3	4.1	5.2	6.4	7.0
67.5°	1.2	1.2	1.7	2.3	4.1	5.2	6.4	7.0
70°	1.2	1.2	1.7	2.3	3.5	4.6	5.8	6.4
72.5°	1.2	1.2	1.7	2.3	3.5	4.6	5.2	5.8
75°	1.2	1.2	1.7	2.3	2.9	4.1	5.2	5.2
77.5°	1.2	1.2	1.7	1.7	2.9	3.5	4.6	4.6
80°	1.2	1.2	1.7	1.7	2.3	2.9	3.5	4.1
82.5°	1.2	1.2	1.2	1.7	1.7	2.3	2.9	2.9
85°	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7
87.5°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)