

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: P1334780

Luminaire Tested: P3A02R259740DE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1334780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R259740DE010 E3CA451MW
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 97CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

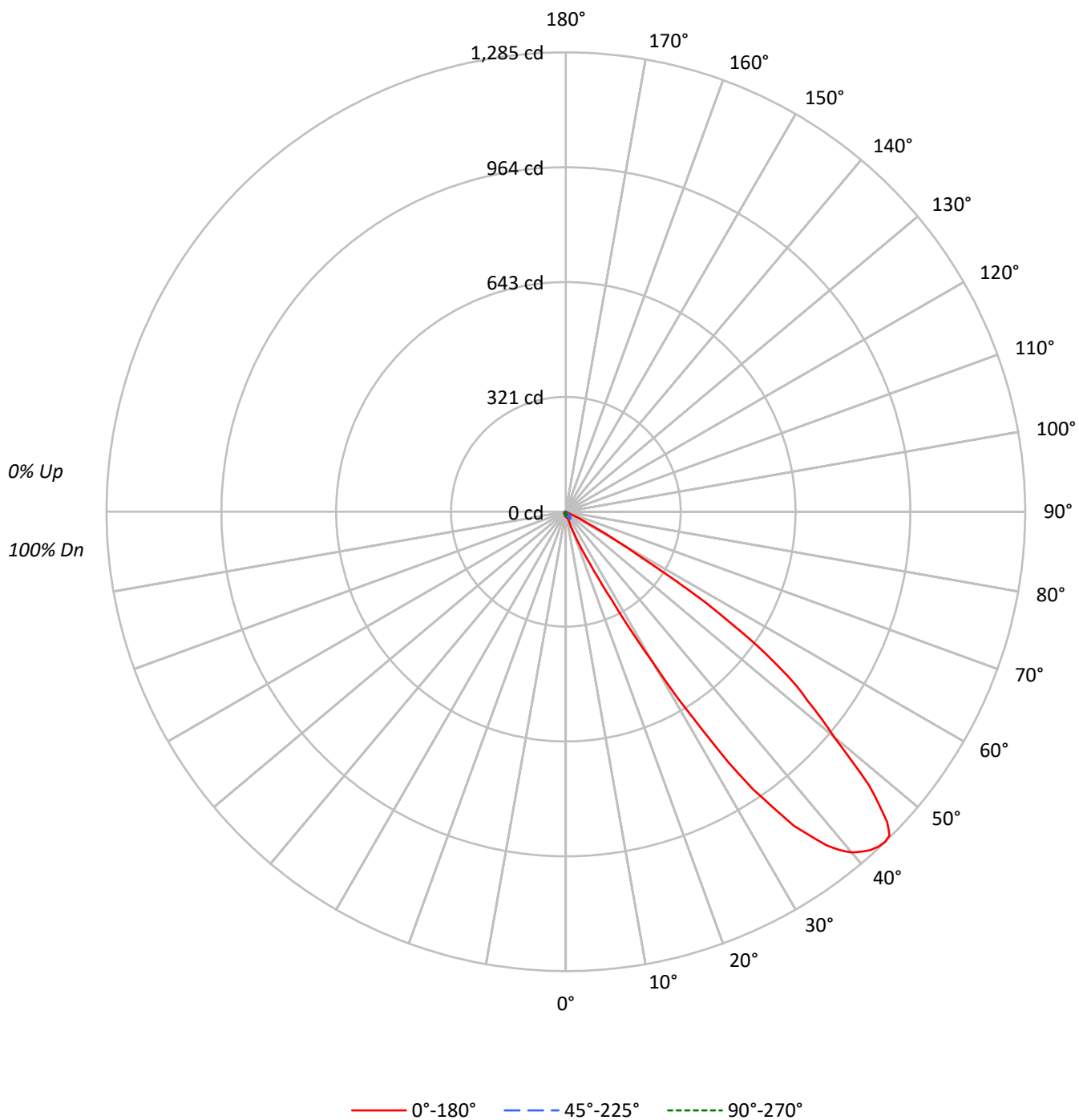
Lumens per Lamp: N/A
Luminaire Lumens: 268.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1334780

CATALOG NUMBER: P3A02R259740DE010 E3CA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1334780

CATALOG NUMBER: P3A02R259740DE010 E3CA451MW

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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3004	3004	3004	3004	3004
5°	3434	3280	2906	2597	2553
10°	3407	3095	2472	2160	2160
15°	3791	2679	1930	1816	1930
20°	13418	2637	1493	1540	1703
25°	38639	3363	1210	1428	1645
30°	123259	5191	962	1367	1671
35°	269941	6130	830	1338	1713
40°	356096	5525	687	1345	1832
45°	397126	3876	651	1458	1985
50°	334283	2013	648	1535	2183
55°	249912	803	650	1720	2447
60°	77362	219	614	1842	2675
65°	6590	0	726	1972	2958
70°	449	128	769	2244	3334
75°	424	169	1017	2372	3813
80°	253	253	1515	2652	4420
85°	503	503	2264	3019	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 397126 cd/sqm

TEST NUMBER: P1334780

CATALOG NUMBER: P3A02R259740DE010 E3CA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	3.2	1.2
20°-30°	14.8	5.5
30°-40°	71.4	26.6
40°-50°	111.9	41.8
50°-60°	57.4	21.4
60°-70°	5.4	2.0
70°-80°	1.8	0.7
80°-90°	0.9	0.3
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°	19.2	7.2
0°-40°	90.6	33.8
0°-60°	259.9	97.0
0°-90°	268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	268.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	16	15	13	12	12	1
15°	17	12	8	8	8	7
25°	160	14	5	6	7	99
35°	1008	23	3	5	6	612
45°	1281	12	2	5	6	937
55°	654	2	2	4	6	544
65°	13	0	1	4	6	40
75°	0	0	1	3	4	1
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1334780

CATALOG NUMBER: P3A02R259740DE010 E3CA451MW

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
2.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.6	14.6	14.9	14.6	14.6
5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.3	15.3	15.3	14.9
7.5°	15.8	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.3	15.3	14.6
10°	15.3	15.3	15.3	15.3	15.1	15.1	15.1	14.9	14.9	14.9	13.9
12.5°	15.3	15.3	15.3	15.3	15.1	15.1	14.9	14.9	14.6	14.4	12.7
15°	16.7	16.7	16.7	16.5	16.3	16.0	15.8	15.6	15.3	14.9	11.8
17.5°	24.5	23.8	23.6	22.6	21.5	20.3	19.3	18.4	17.5	16.7	11.3
20°	57.5	57.3	56.1	53.3	50.2	46.7	43.2	39.1	33.5	29.7	11.3
22.5°	99.8	98.3	96.2	94.1	88.7	82.3	75.7	68.2	60.8	53.1	12.0
25°	159.7	163.0	155.9	150.2	140.8	129.2	116.7	106.4	93.2	80.9	13.9
27.5°	277.6	279.7	265.8	247.4	225.5	201.2	177.6	159.9	137.7	117.4	17.5
30°	486.8	488.9	465.5	426.4	381.1	341.3	287.2	239.8	196.2	162.5	20.5
31°	607.5	591.0	563.9	525.9	468.6	408.5	343.6	286.3	231.1	186.8	21.5
32°	712.5	711.0	679.4	621.9	564.4	490.1	409.6	334.9	267.2	211.3	22.2
33°	836.3	826.8	782.3	728.0	651.8	577.1	473.3	387.9	304.2	238.7	22.6
34°	935.6	910.1	891.7	829.7	749.2	654.0	542.9	444.1	350.4	265.1	22.9
35°	1008.4	1003.0	967.2	909.4	827.5	730.1	617.9	502.3	389.1	295.7	22.9
36°	1085.5	1068.8	1033.9	981.5	901.8	801.1	675.2	552.8	434.2	323.3	22.6
37°	1133.9	1124.0	1089.3	1035.3	957.2	861.0	739.3	606.1	470.0	350.9	22.2
38°	1183.6	1163.6	1129.4	1077.8	1001.1	910.8	785.8	647.1	503.0	375.2	21.5
39°	1218.1	1197.3	1162.4	1111.0	1036.0	946.4	822.6	682.0	531.8	393.4	20.5
40°	1244.0	1224.0	1188.6	1135.8	1061.7	974.5	853.2	712.9	555.9	409.2	19.3
41°	1260.1	1241.4	1206.3	1153.7	1079.4	990.5	873.3	733.0	572.1	419.8	18.2
42°	1273.5	1254.4	1218.6	1164.8	1090.3	1004.2	885.6	745.7	583.2	425.2	17.2
43°	1281.0	1261.9	1227.0	1172.1	1096.9	1010.5	892.2	751.6	587.0	424.5	15.6
44°	1285.3	1265.5	1230.3	1175.4	1099.7	1012.2	892.6	750.4	584.4	418.8	14.2
45°	1280.6	1261.0	1227.0	1172.1	1094.7	1007.0	887.9	744.1	574.5	407.8	12.5
46°	1249.9	1234.8	1203.7	1153.2	1079.2	993.8	875.9	731.8	559.2	394.1	10.6
47°	1195.9	1183.9	1153.7	1116.2	1049.2	969.5	853.7	708.4	537.7	373.6	8.5
48°	1139.5	1121.9	1093.8	1055.4	998.8	925.9	817.2	674.2	505.2	346.7	7.5
49°	1056.3	1045.9	1021.2	978.2	931.3	867.2	765.5	630.4	465.3	317.4	6.6
50°	979.9	972.8	938.1	906.5	856.8	796.9	695.5	572.6	415.8	281.1	5.9
51°	920.2	911.7	886.7	847.4	794.3	724.7	629.2	497.6	358.9	238.0	4.7
52°	858.0	853.2	831.1	790.5	738.4	669.1	564.8	433.9	303.8	201.2	3.8
53°	807.0	800.2	773.1	737.0	680.6	608.9	495.0	374.7	257.3	169.1	3.3
54°	732.7	729.9	712.5	674.7	613.6	535.6	431.8	315.5	214.6	143.4	2.8
55°	653.7	644.3	626.6	596.7	540.5	467.7	358.7	261.5	173.6	120.7	2.1
56°	557.5	557.0	525.4	500.4	450.7	373.3	286.5	204.2	141.0	100.7	1.9
57°	465.5	450.7	420.3	395.5	342.0	283.2	212.7	153.1	110.4	81.6	1.4
58°	344.3	336.5	328.5	292.2	242.7	200.7	151.9	107.5	81.6	62.3	0.9
59°	233.7	233.5	224.0	196.4	167.9	125.0	94.8	73.1	56.1	45.8	0.7
60°	176.4	172.2	153.3	135.1	105.7	79.0	56.1	43.2	34.9	29.5	0.5
62.5°	61.8	64.1	56.4	46.7	35.6	29.2	22.4	18.2	14.9	12.0	0.0
65°	12.7	13.9	12.0	11.3	9.0	7.8	6.8	5.9	5.0	4.2	0.0



TEST NUMBER: P1334780

CATALOG NUMBER: P3A02R259740DE010 E3CA451MW

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	1.7	1.4	1.4	1.4	1.2	1.2	1.2	1.2	0.9	0.9	0.2
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.2
72.5°	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
85°	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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: P1334780

CATALOG NUMBER: P3A02R259740DE010 E3CA451MW

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	13.7	13.7	13.7	13.7	13.7	13.7
2.5°	14.4	13.9	13.2	13.0	12.7	12.7
5°	14.2	13.2	12.5	11.8	11.6	11.6
7.5°	13.4	12.3	11.3	10.8	10.6	10.4
10°	12.7	11.1	10.1	9.7	9.7	9.7
12.5°	11.3	9.9	9.0	8.7	9.0	9.0
15°	10.1	8.5	8.0	8.0	8.3	8.5
17.5°	8.7	7.5	7.1	7.3	7.5	7.8
20°	7.8	6.4	6.4	6.6	7.3	7.3
22.5°	6.8	5.7	5.7	6.4	6.8	7.1
25°	6.1	5.0	5.2	5.9	6.6	6.8
27.5°	5.2	4.2	4.7	5.7	6.4	6.6
30°	4.5	3.8	4.5	5.4	6.1	6.6
31°	4.2	3.5	4.5	5.2	6.1	6.6
32°	3.8	3.5	4.2	5.2	6.1	6.4
33°	3.5	3.3	4.2	5.2	6.1	6.4
34°	3.3	3.1	4.0	5.2	6.1	6.4
35°	2.8	3.1	4.0	5.0	5.9	6.4
36°	2.6	2.8	4.0	5.0	5.9	6.4
37°	2.4	2.8	3.8	5.0	5.9	6.4
38°	2.1	2.6	3.8	5.0	5.9	6.4
39°	1.9	2.6	3.5	5.0	5.9	6.4
40°	1.7	2.4	3.5	4.7	5.9	6.4
41°	1.7	2.4	3.5	4.7	5.9	6.4
42°	1.4	2.4	3.5	4.7	5.9	6.4
43°	1.2	2.1	3.5	4.7	5.9	6.4
44°	0.9	2.1	3.3	4.7	5.9	6.4
45°	0.9	2.1	3.3	4.7	5.9	6.4
46°	0.7	1.9	3.3	4.7	5.9	6.4
47°	0.5	1.9	3.3	4.5	5.9	6.4
48°	0.5	1.9	3.3	4.5	5.9	6.4
49°	0.5	1.9	3.1	4.5	5.9	6.4
50°	0.5	1.9	3.1	4.5	5.9	6.4
51°	0.2	1.7	3.1	4.5	5.9	6.4
52°	0.2	1.7	3.1	4.5	5.9	6.6
53°	0.2	1.7	3.1	4.5	5.9	6.4
54°	0.2	1.7	2.8	4.5	5.9	6.4
55°	0.2	1.7	2.8	4.5	5.9	6.4
56°	0.2	1.4	2.8	4.2	5.9	6.4
57°	0.5	1.4	2.8	4.2	5.9	6.1
58°	0.5	1.4	2.8	4.2	5.7	6.1
59°	0.5	1.4	2.8	4.2	5.7	6.1
60°	0.5	1.4	2.6	4.2	5.7	6.1
62.5°	0.5	1.4	2.6	4.0	5.4	5.9
65°	0.5	1.4	2.4	3.8	5.4	5.7



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.5	1.2	2.4	3.5	5.2	5.4
70°	0.7	1.2	2.1	3.5	5.0	5.2
72.5°	0.7	1.2	2.1	3.1	4.5	5.0
75°	0.7	1.2	1.9	2.8	4.2	4.5
77.5°	0.7	1.2	1.7	2.6	3.8	4.0
80°	0.9	1.2	1.4	2.1	3.3	3.5
82.5°	0.9	1.2	1.2	1.7	2.6	2.8
85°	0.7	0.9	0.9	1.2	1.7	1.9
87.5°	0.7	0.9	0.7	0.5	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)