

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: P1339474

Luminaire Tested: P3A05R459735DE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R459735DE010 E3CA451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

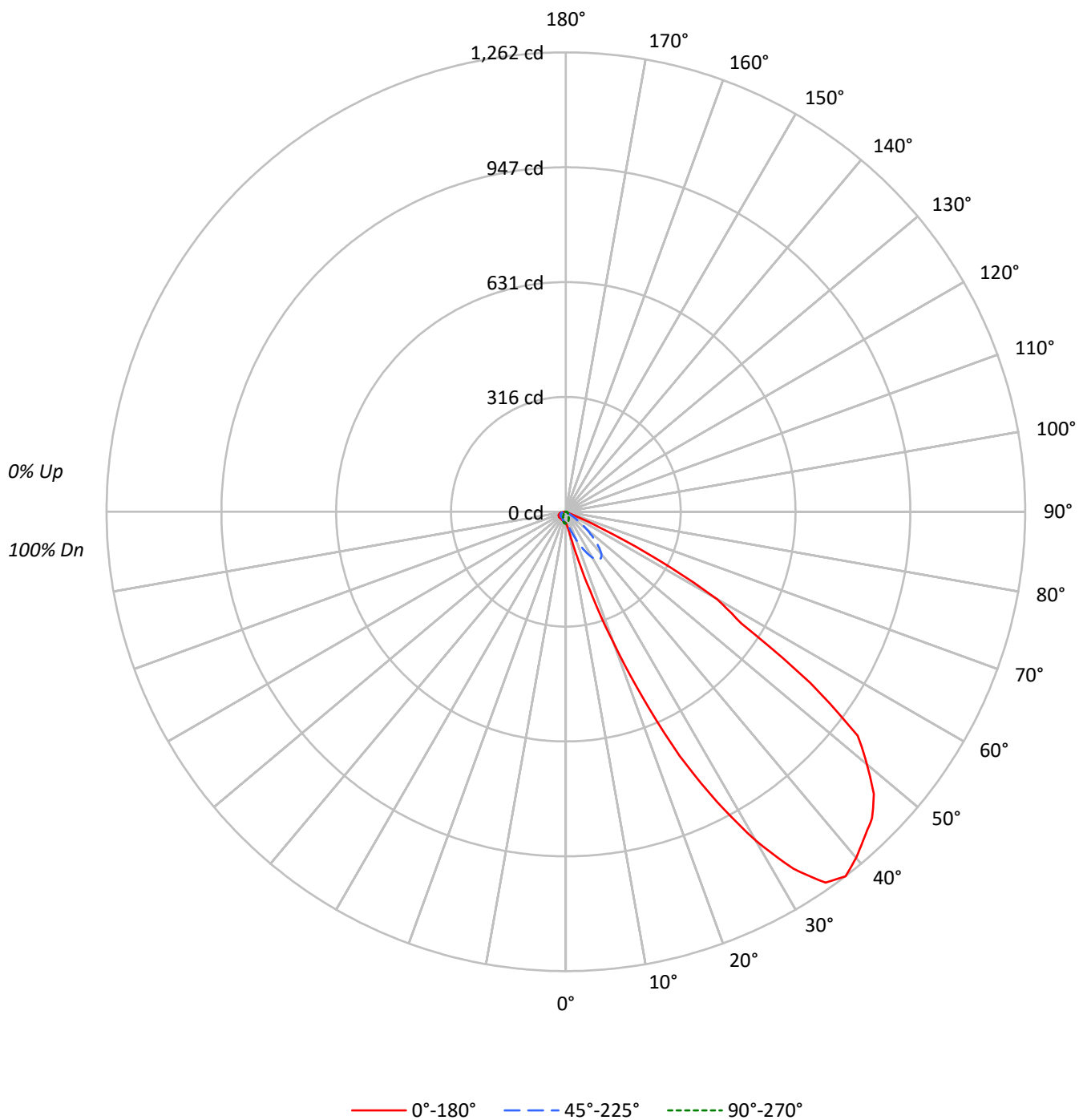
Lumens per Lamp: N/A
Luminaire Lumens: 564.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7149	7149	7149	7149	7149
5°	8519	7902	7088	6560	6560
10°	13582	9241	6635	6235	6235
15°	33848	12372	6039	5812	6039
20°	89164	18482	5227	5554	5881
25°	179043	27389	4500	5178	5758
30°	263965	36689	3646	5064	5900
35°	332956	43045	3132	4979	6103
40°	355237	43481	2805	5210	6527
45°	369093	36283	2605	5644	7071
50°	368500	25278	2559	6038	7949
55°	313222	11240	2676	6767	8717
60°	210509	2237	2675	7543	9999
65°	55881	986	2646	8198	11363
70°	1475	1218	2693	8976	12823
75°	1186	1186	2796	9489	14572
80°	1137	1768	2904	9976	16416
85°	1258	2264	4780	10567	16354

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 378586 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.6
10°-20°	15.9	2.8
20°-30°	65.6	11.6
30°-40°	138.3	24.5
40°-50°	170.6	30.2
50°-60°	127.9	22.7
60°-70°	32.9	5.8
70°-80°	6.8	1.2
80°-90°	2.8	0.5
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°	84.8	15.0
0°-40°	223.0	39.5
0°-60°	521.5	92.5
0°-90°	564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	564.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	33	33	33	33	33	
5°	39	36	32	30	30	4
15°	149	54	27	26	27	55
25°	740	113	19	21	24	345
35°	1244	161	12	19	23	758
45°	1190	117	8	18	23	911
55°	819	29	7	18	23	707
65°	108	2	5	16	22	155
75°	1	1	3	11	17	2
85°	0	1	2	4	6	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
2.5°	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.0	33.6	32.6	31.7
5°	38.7	38.2	38.2	38.2	37.7	37.3	37.3	35.9	34.0	32.2	30.8
7.5°	45.7	45.7	45.2	44.3	43.8	42.9	41.9	38.2	34.0	31.2	29.4
10°	61.0	60.1	58.7	57.8	55.5	52.2	49.9	41.5	33.6	29.8	28.4
12.5°	91.3	93.2	88.5	83.9	77.4	71.3	63.8	47.1	33.6	28.4	27.0
15°	149.1	152.4	143.5	134.2	118.4	103.5	89.5	54.5	32.6	26.6	25.2
17.5°	243.7	247.9	233.0	211.1	186.4	156.6	131.0	64.8	31.7	24.7	23.8
20°	382.1	381.7	352.8	325.3	277.7	233.9	185.9	79.2	30.3	22.4	22.4
22.5°	552.2	554.1	518.7	469.3	401.7	331.3	254.9	96.0	28.4	20.5	21.0
25°	740.0	724.2	682.3	622.1	535.9	438.5	337.9	113.2	26.6	18.6	19.6
27.5°	896.6	881.2	833.2	761.9	669.2	553.6	422.2	130.5	24.2	16.8	18.2
30°	1042.5	1022.9	965.1	884.5	774.1	649.2	501.4	144.9	21.4	14.4	16.8
32.5°	1162.7	1145.0	1079.3	985.6	865.4	731.2	568.5	156.1	18.6	13.0	15.8
35°	1243.8	1225.6	1165.0	1062.1	931.1	790.8	623.1	160.8	16.3	11.7	15.4
37.5°	1262.4	1252.7	1209.3	1112.9	976.3	829.0	658.0	159.4	13.5	10.7	14.4
40°	1241.0	1243.3	1222.8	1142.7	1000.5	845.4	672.5	151.9	11.2	9.8	14.0
42.5°	1213.5	1219.6	1218.2	1154.8	1010.8	846.3	666.4	137.0	8.9	8.9	13.5
45°	1190.2	1196.3	1204.7	1149.7	1003.8	834.2	647.3	117.0	6.5	8.4	13.5
47.5°	1147.8	1154.3	1166.4	1108.7	968.4	803.0	612.8	95.1	4.7	7.9	13.0
50°	1080.2	1083.5	1080.2	1015.5	900.3	752.6	556.9	74.1	3.3	7.5	13.0
52.5°	1010.8	1004.3	977.2	895.2	792.2	672.9	486.5	52.7	2.3	7.0	12.6
55°	819.3	809.0	789.0	738.6	679.9	575.1	393.3	29.4	2.3	7.0	12.1
57.5°	570.9	576.5	583.5	573.2	546.2	453.0	298.7	13.0	2.3	6.5	12.1
60°	480.0	475.3	475.8	469.3	424.5	330.4	205.5	5.1	2.3	6.1	11.7
62.5°	286.6	289.9	295.9	297.3	253.0	184.5	107.7	2.3	2.3	5.6	11.2
65°	107.7	112.8	98.8	85.7	68.0	49.9	25.2	1.9	2.8	5.1	10.3
67.5°	3.3	3.7	4.7	4.2	4.2	3.7	2.8	1.9	2.8	4.7	9.8
70°	2.3	2.3	2.3	2.3	2.3	1.9	1.9	1.9	2.3	4.2	8.9
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	3.7	7.9
75°	1.4	1.9	1.4	1.4	1.4	1.4	1.4	1.4	2.3	3.3	6.5
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	2.8	5.6
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.9	2.3	4.7
82.5°	0.9	0.9	0.9	0.5	0.9	0.9	0.9	0.9	1.9	1.9	3.7
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	1.9	2.3
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9	1.4	1.4	1.4
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):

	135°	157.5°	180°
0°	32.6	32.6	32.6
2.5°	30.8	30.8	30.8
5°	29.8	29.8	29.8
7.5°	28.9	28.9	28.9
10°	28.0	28.0	28.0
12.5°	27.0	27.0	27.5
15°	25.6	26.6	26.6
17.5°	24.7	25.6	26.1
20°	23.8	24.7	25.2
22.5°	22.4	23.8	24.7
25°	21.4	23.3	23.8
27.5°	20.5	22.8	23.8
30°	20.0	22.4	23.3
32.5°	19.1	21.9	22.8
35°	18.6	21.9	22.8
37.5°	18.6	21.4	22.8
40°	18.2	21.4	22.8
42.5°	18.2	21.4	22.8
45°	18.2	21.4	22.8
47.5°	17.7	21.4	23.3
50°	17.7	21.9	23.3
52.5°	17.7	21.9	23.3
55°	17.7	21.9	22.8
57.5°	17.2	21.4	22.8
60°	17.2	21.4	22.8
62.5°	16.3	21.0	22.4
65°	15.8	20.5	21.9
67.5°	14.9	20.0	21.0
70°	14.0	18.6	20.0
72.5°	12.6	17.7	19.1
75°	11.2	16.3	17.2
77.5°	9.8	14.4	15.4
80°	7.9	12.1	13.0
82.5°	6.1	9.3	9.8
85°	4.2	6.1	6.5
87.5°	1.9	2.8	3.3
90°	0.0	0.0	0.0

(END OF REPORT)