

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: P1339538

Luminaire Tested: P3A05R459835DE010 E3CA451MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1339538
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: P3A05R459835DE010 E3CA451MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , E3CA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

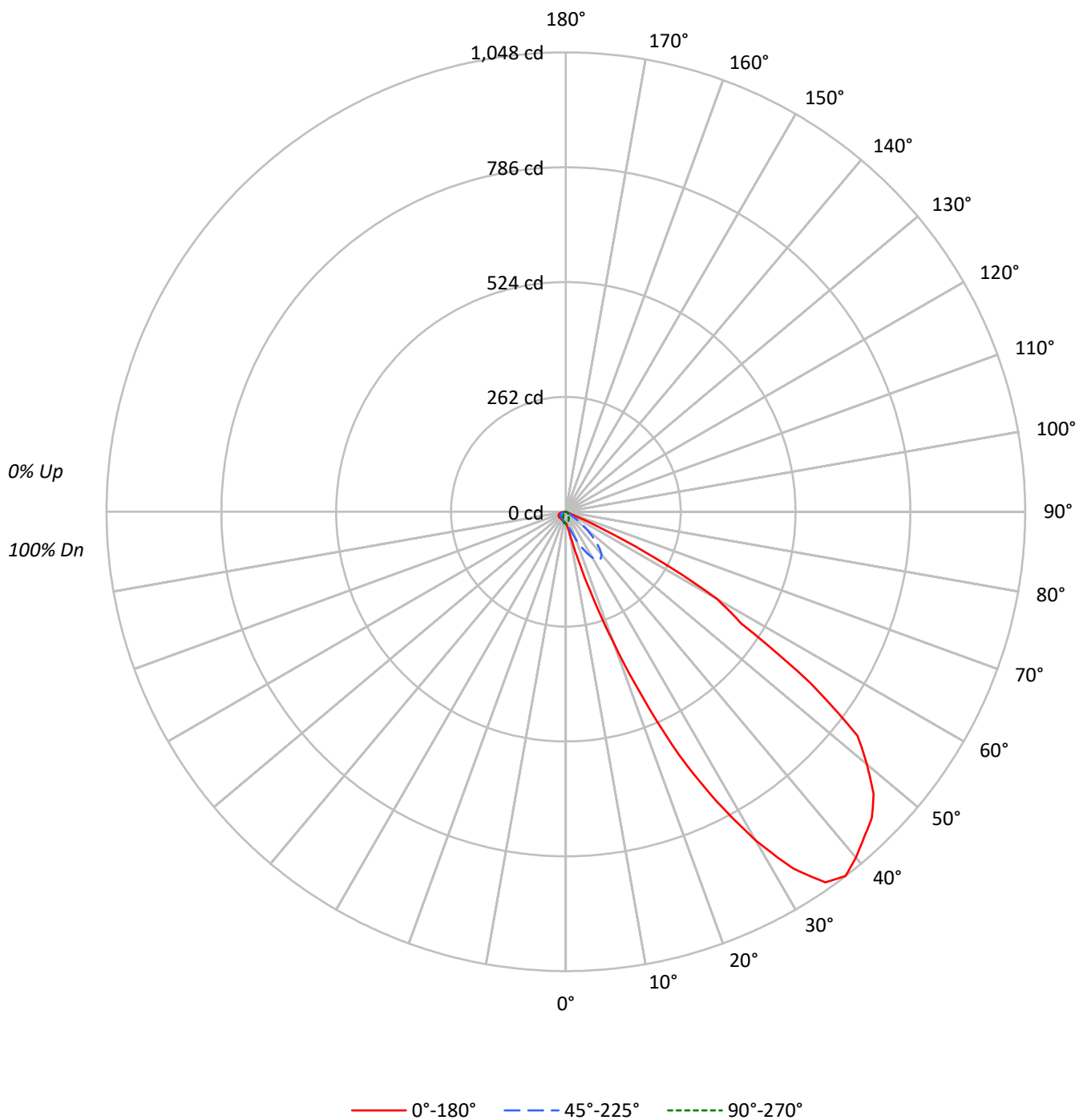
Lumens per Lamp: N/A
Luminaire Lumens: 468.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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°	5943	5943	5943	5943	5943
5°	7066	6560	5877	5437	5437
10°	11289	7660	5500	5166	5166
15°	28082	10261	4994	4835	4994
20°	73996	15331	4340	4597	4877
25°	148581	22743	3750	4307	4766
30°	219021	30460	3038	4203	4887
35°	276285	35710	2597	4149	5059
40°	294781	36096	2319	4322	5410
45°	306264	30112	2171	4683	5861
50°	305798	20980	2115	5015	6584
55°	259890	9328	2217	5620	7226
60°	174679	1886	2193	6271	8289
65°	46334	778	2231	6797	9443
70°	1218	962	2244	7437	10643
75°	1017	1017	2288	7879	12115
80°	1010	1515	2399	8334	13638
85°	1006	2013	3774	8806	13586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 314158 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.6
10°-20°	13.2	2.8
20°-30°	54.4	11.6
30°-40°	114.7	24.5
40°-50°	141.6	30.2
50°-60°	106.1	22.7
60°-70°	27.3	5.8
70°-80°	5.7	1.2
80°-90°	2.3	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°	70.3	15.0
0°-40°	185.1	39.5
0°-60°	432.7	92.5
0°-90°	468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	468.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	27	27	27	27	27	
5°	32	30	27	25	25	4
15°	124	45	22	21	22	45
25°	614	94	16	18	20	286
35°	1032	133	10	16	19	629
45°	988	97	7	15	19	756
55°	680	24	6	15	19	587
65°	89	2	4	13	18	129
75°	1	1	3	9	14	1
85°	0	1	2	4	5	0
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°	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
2.5°	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.2	27.8	27.1	26.3
5°	32.1	31.7	31.7	31.7	31.3	30.9	30.9	29.8	28.2	26.7	25.5
7.5°	37.9	37.9	37.5	36.7	36.3	35.6	34.8	31.7	28.2	25.9	24.4
10°	50.7	49.9	48.7	48.0	46.0	43.3	41.4	34.4	27.8	24.7	23.6
12.5°	75.8	77.3	73.5	69.6	64.2	59.2	53.0	39.1	27.8	23.6	22.4
15°	123.7	126.4	119.1	111.4	98.2	85.8	74.2	45.2	27.1	22.0	20.9
17.5°	202.2	205.7	193.3	175.2	154.7	129.9	108.7	53.8	26.3	20.5	19.7
20°	317.1	316.7	292.7	269.9	230.5	194.1	154.3	65.7	25.1	18.6	18.6
22.5°	458.2	459.8	430.4	389.4	333.3	274.9	211.5	79.7	23.6	17.0	17.4
25°	614.1	600.9	566.1	516.2	444.7	363.9	280.4	94.0	22.0	15.5	16.2
27.5°	744.0	731.2	691.4	632.2	555.3	459.4	350.3	108.3	20.1	13.9	15.1
30°	865.0	848.8	800.8	734.0	642.3	538.7	416.1	120.3	17.8	12.0	13.9
32.5°	964.8	950.1	895.6	817.9	718.1	606.7	471.8	129.5	15.5	10.8	13.1
35°	1032.1	1017.0	966.7	881.3	772.6	656.2	517.0	133.4	13.5	9.7	12.8
37.5°	1047.6	1039.4	1003.5	923.4	810.1	687.9	546.0	132.3	11.2	8.9	12.0
40°	1029.8	1031.7	1014.7	948.2	830.2	701.5	558.0	126.1	9.3	8.1	11.6
42.5°	1007.0	1012.0	1010.8	958.2	838.7	702.2	553.0	113.7	7.3	7.3	11.2
45°	987.6	992.7	999.6	954.0	832.9	692.2	537.1	97.1	5.4	7.0	11.2
47.5°	952.4	957.8	967.9	920.0	803.6	666.3	508.5	78.9	3.9	6.6	10.8
50°	896.4	899.1	896.4	842.6	747.1	624.5	462.1	61.5	2.7	6.2	10.8
52.5°	838.7	833.3	810.9	742.8	657.4	558.4	403.7	43.7	1.9	5.8	10.4
55°	679.8	671.3	654.7	612.9	564.2	477.2	326.4	24.4	1.9	5.8	10.1
57.5°	473.7	478.3	484.1	475.6	453.2	375.9	247.9	10.8	1.9	5.4	10.1
60°	398.3	394.4	394.8	389.4	352.3	274.2	170.5	4.3	1.9	5.0	9.7
62.5°	237.8	240.5	245.6	246.7	210.0	153.1	89.3	1.9	1.9	4.6	9.3
65°	89.3	93.6	82.0	71.2	56.5	41.4	20.9	1.5	2.3	4.3	8.5
67.5°	2.7	3.1	3.9	3.5	3.5	3.1	2.3	1.5	2.3	3.9	8.1
70°	1.9	1.9	1.9	1.9	1.9	1.5	1.5	1.5	1.9	3.5	7.3
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9	3.1	6.6
75°	1.2	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.9	2.7	5.4
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	2.3	4.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.5	1.9	3.9
82.5°	0.8	0.8	0.8	0.4	0.8	0.8	0.8	0.8	1.5	1.5	3.1
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.5	1.9
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.2	1.2	1.2
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°	27.1	27.1	27.1
2.5°	25.5	25.5	25.5
5°	24.7	24.7	24.7
7.5°	24.0	24.0	24.0
10°	23.2	23.2	23.2
12.5°	22.4	22.4	22.8
15°	21.3	22.0	22.0
17.5°	20.5	21.3	21.7
20°	19.7	20.5	20.9
22.5°	18.6	19.7	20.5
25°	17.8	19.3	19.7
27.5°	17.0	18.9	19.7
30°	16.6	18.6	19.3
32.5°	15.9	18.2	18.9
35°	15.5	18.2	18.9
37.5°	15.5	17.8	18.9
40°	15.1	17.8	18.9
42.5°	15.1	17.8	18.9
45°	15.1	17.8	18.9
47.5°	14.7	17.8	19.3
50°	14.7	18.2	19.3
52.5°	14.7	18.2	19.3
55°	14.7	18.2	18.9
57.5°	14.3	17.8	18.9
60°	14.3	17.8	18.9
62.5°	13.5	17.4	18.6
65°	13.1	17.0	18.2
67.5°	12.4	16.6	17.4
70°	11.6	15.5	16.6
72.5°	10.4	14.7	15.9
75°	9.3	13.5	14.3
77.5°	8.1	12.0	12.8
80°	6.6	10.1	10.8
82.5°	5.0	7.7	8.1
85°	3.5	5.0	5.4
87.5°	1.5	2.3	2.7
90°	0.0	0.0	0.0

(END OF REPORT)