

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: P#

Luminaire Tested: P3ART09R709835DE010 E3CLSWW1MW

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART09R709835DE010 E3CLSWW1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

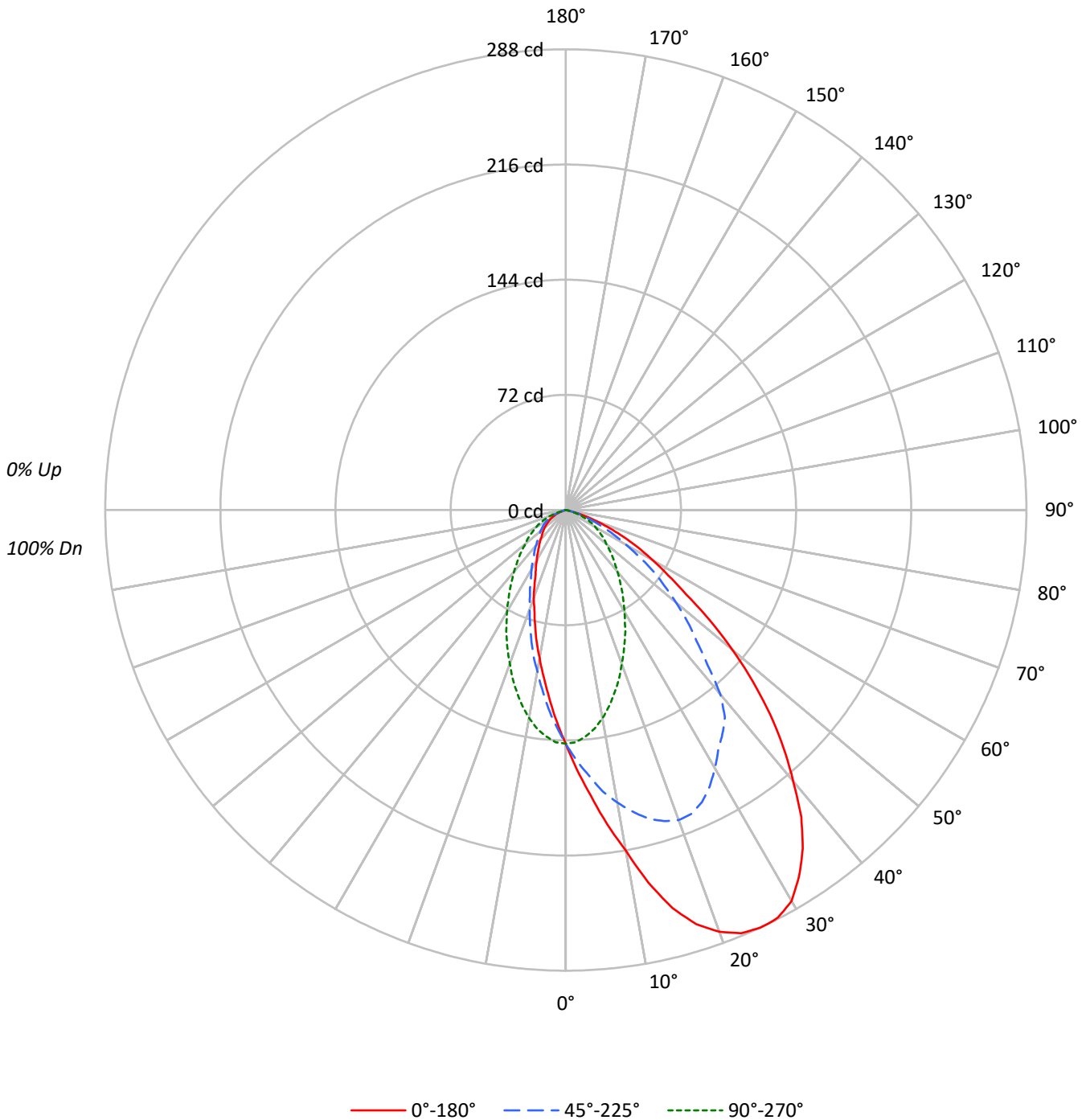
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 291.0 lumens
Efficiency: N/A
Efficacy: 26.5 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100	
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	91	89	
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	80	80	80	78	
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	70	68	
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	62	60	
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53	
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	49	47	
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	44	43	
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	40	39	
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	37	35	
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	34	32	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32037	32037	32037	32037	32037
5°	39423	36694	31257	27427	25974
10°	48140	41349	29414	22778	20953
15°	58457	45335	26788	18933	16867
20°	65479	48141	23872	15401	13675
25°	69681	48729	21171	12775	10791
30°	71479	47222	18610	10862	9191
35°	69145	45722	16356	9289	7950
40°	63319	42995	14398	8273	7099
45°	56068	35818	12808	7691	6388
50°	46463	30703	11258	7027	5902
55°	35019	25576	10399	6614	5352
60°	27498	19165	9429	6140	4693
65°	20547	14113	8146	5137	3840
70°	13207	8976	5834	3719	2116
75°	5592	4914	2796	1440	678
80°	1010	1010	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 56068 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	4.8
10°-20°	39.9	13.7
20°-30°	58.3	20.0
30°-40°	63.5	21.8
40°-50°	55.0	18.9
50°-60°	36.8	12.7
60°-70°	19.0	6.5
70°-80°	4.5	1.5
80°-90°	0.0	0.0
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°	112.1	38.5
0°-40°	175.6	60.3
0°-60°	267.4	91.9
0°-90°	291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	291.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	146	146	146	146	146	
5°	179	167	142	125	118	18
15°	258	200	118	83	74	73
25°	288	201	88	53	45	132
35°	258	171	61	35	30	160
45°	181	116	41	25	21	138
55°	92	67	27	17	14	85
65°	40	27	16	10	7	40
75°	7	6	3	2	1	9
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P#
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	146.1	146.1	146.1	146.1	146.1	146.1	146.1	146.1	146.1	146.1	146.1
2.5°	162.6	161.8	161.8	160.1	158.5	156.8	154.3	151.9	149.4	146.9	145.3
5°	179.1	179.9	179.1	175.8	171.7	166.7	161.8	156.0	150.2	145.3	142.0
7.5°	198.1	198.1	195.6	191.5	185.7	177.5	169.2	159.3	150.2	142.0	137.8
10°	216.2	216.2	212.1	205.5	196.4	185.7	174.1	160.9	148.6	137.0	132.1
12.5°	238.5	237.7	232.7	222.0	208.8	193.1	177.5	160.9	146.1	132.1	125.5
15°	257.5	256.7	250.1	236.9	219.5	199.7	178.3	159.3	141.1	125.5	118.0
17.5°	271.5	269.9	262.5	248.4	228.6	203.9	179.1	156.0	135.4	118.0	110.6
20°	280.6	279.8	271.5	255.0	233.6	206.3	178.3	151.9	129.6	110.6	102.3
22.5°	286.4	284.7	276.5	258.3	233.6	205.5	175.0	146.1	122.2	103.2	94.9
25°	288.0	287.2	277.3	257.5	231.1	201.4	170.0	140.3	114.7	95.7	87.5
26°	288.0	287.2	277.3	256.7	229.4	198.9	167.5	137.8	112.2	92.4	85.0
27.5°	287.2	286.4	275.7	254.2	226.1	194.8	162.6	132.9	107.3	88.3	80.1
30°	282.3	280.6	269.9	248.4	218.7	186.5	154.3	125.5	99.9	80.9	73.5
32.5°	271.5	269.9	258.3	238.5	210.5	177.5	145.3	117.2	92.4	73.5	66.9
35°	258.3	256.7	245.1	226.1	198.9	170.8	135.4	108.1	84.2	67.7	61.1
37.5°	241.8	239.4	229.4	209.6	184.9	163.4	127.1	99.0	76.8	61.1	55.3
40°	221.2	220.4	211.3	193.1	168.4	150.2	122.2	99.0	70.2	55.3	50.3
42.5°	201.4	199.7	191.5	175.8	153.5	131.2	107.3	94.9	65.2	49.5	45.4
45°	180.8	179.1	171.7	158.5	137.8	115.5	115.5	81.7	56.1	45.4	41.3
47.5°	158.5	156.8	151.0	141.1	123.0	103.2	84.2	66.9	51.2	40.4	37.1
50°	136.2	137.0	132.1	122.2	108.1	90.0	72.6	56.1	43.7	36.3	33.0
52.5°	113.9	113.1	109.8	103.2	93.3	77.6	61.9	47.9	38.0	32.2	30.5
55°	91.6	92.4	90.8	86.7	78.4	66.9	52.0	41.3	33.8	28.9	27.2
57.5°	75.9	76.8	73.5	71.0	64.4	54.5	42.9	34.7	28.9	25.6	23.9
60°	62.7	63.6	61.1	57.8	52.8	43.7	34.7	28.9	25.6	23.1	21.5
62.5°	51.2	50.3	48.7	45.4	41.3	34.7	28.1	23.9	21.5	19.8	19.0
65°	39.6	39.6	38.0	35.5	32.2	27.2	22.3	19.8	18.2	16.5	15.7
67.5°	29.7	29.7	28.1	26.4	23.1	19.8	17.3	15.7	14.9	13.2	12.4
70°	20.6	20.6	19.8	19.0	16.5	14.0	13.2	11.6	10.7	9.9	9.1
72.5°	13.2	13.2	13.2	11.6	10.7	9.1	9.1	8.3	7.4	6.6	6.6
75°	6.6	7.4	6.6	6.6	5.8	5.8	5.0	5.0	4.1	4.1	3.3
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	146.1	146.1	146.1	146.1	146.1	146.1	146.1	146.1	146.1	146.1
2.5°	143.6	141.1	139.5	137.0	135.4	133.7	132.9	132.1	132.1	132.1
5°	139.5	135.4	131.2	127.1	124.6	122.2	119.7	118.9	118.0	118.0
7.5°	134.5	127.9	122.2	117.2	113.1	110.6	108.1	106.5	105.6	105.6
10°	127.9	119.7	113.1	106.5	102.3	99.0	97.4	94.9	94.9	94.1
12.5°	120.5	110.6	103.2	97.4	93.3	89.1	86.7	85.0	84.2	84.2
15°	112.2	102.3	94.1	87.5	83.4	79.2	76.8	75.1	74.3	74.3
17.5°	104.0	93.3	85.0	78.4	74.3	70.2	67.7	66.0	66.0	65.2
20°	95.7	85.0	76.8	70.2	66.0	62.7	60.3	58.6	57.8	58.6
22.5°	88.3	77.6	69.3	63.6	58.6	55.3	52.8	52.0	51.2	51.2
25°	80.1	70.2	62.7	56.9	52.8	49.5	47.0	46.2	45.4	44.6
26°	77.6	67.7	60.3	54.5	50.3	47.0	45.4	43.7	42.9	42.9
27.5°	74.3	63.6	56.9	51.2	47.0	44.6	42.1	41.3	40.4	40.4
30°	66.9	57.8	51.2	46.2	42.9	39.6	38.0	37.1	36.3	36.3
32.5°	61.1	52.0	46.2	42.1	38.8	36.3	34.7	33.0	33.0	33.0
35°	55.3	47.0	42.1	38.0	34.7	32.2	31.4	30.5	29.7	29.7
37.5°	50.3	42.9	38.0	34.7	32.2	29.7	28.1	27.2	27.2	27.2
40°	45.4	39.6	34.7	31.4	28.9	27.2	25.6	24.8	24.8	24.8
42.5°	41.3	35.5	32.2	28.9	26.4	24.8	23.9	23.1	22.3	22.3
45°	38.0	33.0	28.9	26.4	24.8	23.1	21.5	20.6	20.6	20.6
47.5°	33.8	30.5	26.4	23.9	22.3	20.6	19.8	19.0	19.0	19.0
50°	31.4	28.1	24.8	22.3	20.6	19.0	18.2	17.3	17.3	17.3
52.5°	28.1	25.6	23.1	20.6	19.0	17.3	16.5	15.7	15.7	15.7
55°	25.6	23.1	20.6	19.0	17.3	15.7	14.9	14.0	14.0	14.0
57.5°	23.1	20.6	19.0	17.3	15.7	14.9	13.2	13.2	12.4	12.4
60°	20.6	18.2	16.5	15.7	14.0	13.2	11.6	10.7	10.7	10.7
62.5°	17.3	16.5	14.9	13.2	11.6	10.7	9.9	9.1	9.1	9.1
65°	14.9	14.0	12.4	10.7	9.9	9.1	8.3	7.4	7.4	7.4
67.5°	12.4	10.7	9.9	9.1	8.3	7.4	6.6	5.8	5.0	5.8
70°	9.1	8.3	7.4	6.6	5.8	5.0	4.1	4.1	3.3	3.3
72.5°	5.8	5.0	5.0	4.1	3.3	3.3	2.5	2.5	1.7	1.7
75°	3.3	3.3	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.8
77.5°	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)