

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: P1445537

Luminaire Tested: P3ART13R709024DE010 E3CLSWW1MW

Issue Date: 5/8/2026

Test Information

Test Method: LM-79-2019
Report Number: P1445537
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: P3ART13R709024DE010 E3CLSWW1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

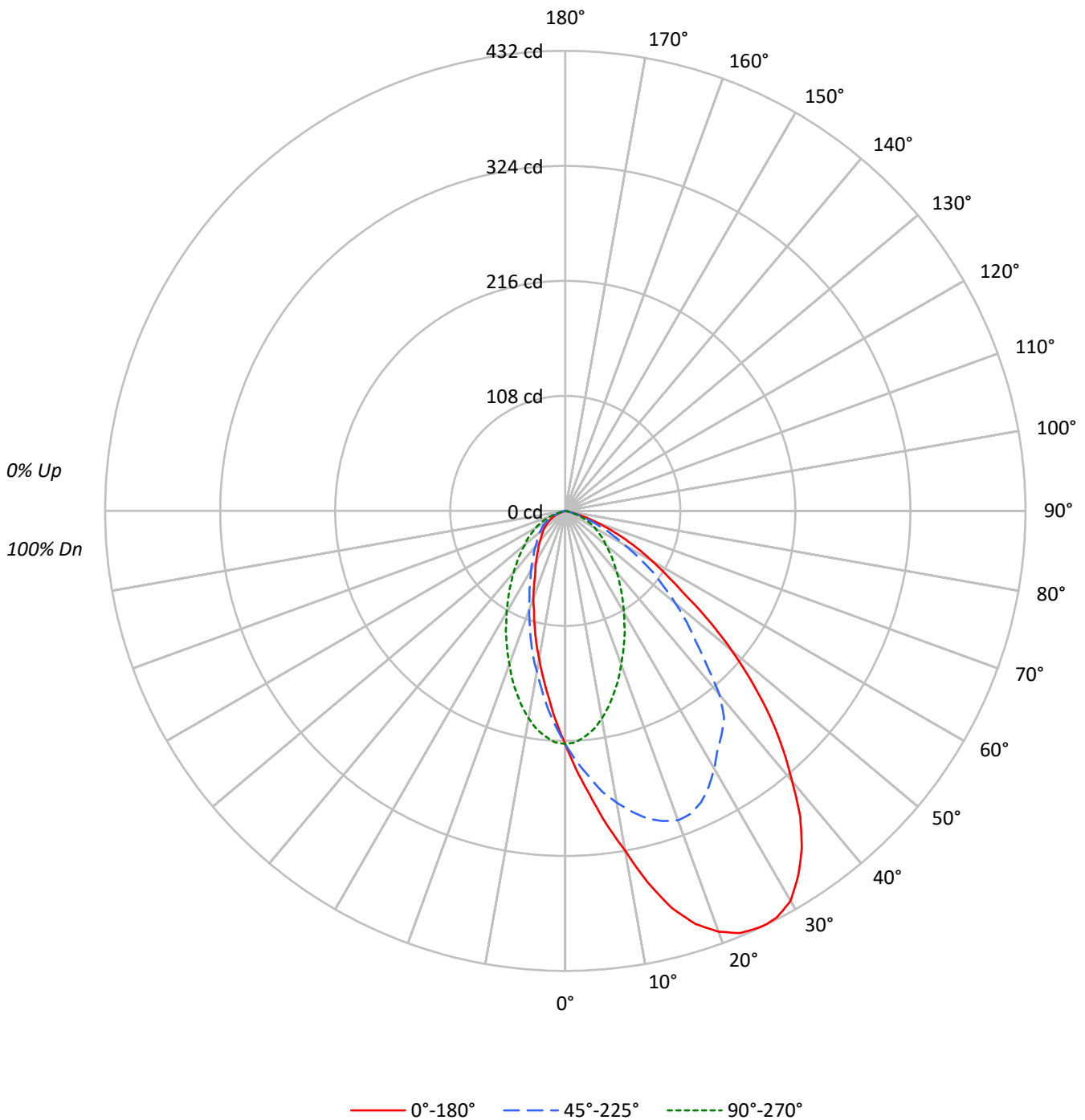
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 436.0 lumens
Efficiency: N/A
Efficacy: 29.9 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): 14.6
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

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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	48001	48001	48001	48001	48001
5°	59058	54986	46819	41096	38917
10°	72143	61945	44065	34134	31396
15°	87583	67946	40136	28354	25267
20°	98102	72153	35773	23079	20488
25°	104425	72996	31720	19138	16162
30°	107080	70770	27878	16281	13774
35°	103624	68529	24494	13893	11912
40°	94863	64435	21583	12395	10620
45°	83978	53680	19165	11505	9582
50°	69593	45986	16886	10541	8870
55°	52490	38307	15598	9940	8028
60°	41225	28726	14122	9210	7061
65°	30820	21170	12193	7679	5759
70°	19811	13464	8719	5578	3142
75°	8388	7371	4151	2118	1017
80°	1515	1515	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 83978 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.8	4.8
10°-20°	59.8	13.7
20°-30°	87.4	20.0
30°-40°	95.2	21.8
40°-50°	82.4	18.9
50°-60°	55.2	12.7
60°-70°	28.5	6.5
70°-80°	6.7	1.5
80°-90°	0.1	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°	167.9	38.5
0°-40°	263.1	60.3
0°-60°	400.7	91.9
0°-90°	436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	436.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	219	219	219	219	219	
5°	268	250	213	187	177	27
15°	386	299	177	125	111	109
25°	432	302	131	79	67	198
35°	387	256	92	52	44	240
45°	271	173	62	37	31	207
55°	137	100	41	26	21	127
65°	59	41	24	15	11	60
75°	10	9	5	2	1	13
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	218.9	218.9	218.9	218.9	218.9	218.9	218.9	218.9	218.9	218.9	218.9
2.5°	243.6	242.4	242.4	239.9	237.4	235.0	231.2	227.5	223.8	220.1	217.6
5°	268.3	269.6	268.3	263.4	257.2	249.8	242.4	233.7	225.1	217.6	212.7
7.5°	296.8	296.8	293.1	286.9	278.2	265.9	253.5	238.7	225.1	212.7	206.5
10°	324.0	324.0	317.8	307.9	294.3	278.2	260.9	241.1	222.6	205.3	197.9
12.5°	357.4	356.1	348.7	332.6	312.9	289.4	265.9	241.1	218.9	197.9	188.0
15°	385.8	384.6	374.7	354.9	328.9	299.3	267.1	238.7	211.5	188.0	176.8
17.5°	406.8	404.4	393.2	372.2	342.5	305.4	268.3	233.7	202.8	176.8	165.7
20°	420.4	419.2	406.8	382.1	350.0	309.2	267.1	227.5	194.1	165.7	153.3
22.5°	429.1	426.6	414.3	387.1	350.0	307.9	262.2	218.9	183.0	154.6	142.2
25°	431.6	430.3	415.5	385.8	346.3	301.7	254.7	210.2	171.9	143.4	131.1
26°	431.6	430.3	415.5	384.6	343.8	298.0	251.0	206.5	168.2	138.5	127.4
27.5°	430.3	429.1	413.0	380.9	338.8	291.8	243.6	199.1	160.8	132.3	120.0
30°	422.9	420.4	404.4	372.2	327.7	279.5	231.2	188.0	149.6	121.2	110.1
32.5°	406.8	404.4	387.1	357.4	315.3	265.9	217.6	175.6	138.5	110.1	100.2
35°	387.1	384.6	367.3	338.8	298.0	256.0	202.8	162.0	126.1	101.4	91.5
37.5°	362.3	358.6	343.8	314.1	277.0	244.8	190.4	148.4	115.0	91.5	82.9
40°	331.4	330.2	316.6	289.4	252.3	225.1	183.0	148.4	105.1	82.9	75.4
42.5°	301.7	299.3	286.9	263.4	230.0	196.6	160.8	142.2	97.7	74.2	68.0
45°	270.8	268.3	257.2	237.4	206.5	173.1	173.1	122.4	84.1	68.0	61.8
47.5°	237.4	235.0	226.3	211.5	184.3	154.6	126.1	100.2	76.7	60.6	55.6
50°	204.0	205.3	197.9	183.0	162.0	134.8	108.8	84.1	65.5	54.4	49.5
52.5°	170.7	169.4	164.5	154.6	139.7	116.2	92.7	71.7	56.9	48.2	45.8
55°	137.3	138.5	136.0	129.8	117.5	100.2	77.9	61.8	50.7	43.3	40.8
57.5°	113.8	115.0	110.1	106.3	96.5	81.6	64.3	51.9	43.3	38.3	35.9
60°	94.0	95.2	91.5	86.6	79.1	65.5	51.9	43.3	38.3	34.6	32.2
62.5°	76.7	75.4	73.0	68.0	61.8	51.9	42.0	35.9	32.2	29.7	28.4
65°	59.4	59.4	56.9	53.2	48.2	40.8	33.4	29.7	27.2	24.7	23.5
67.5°	44.5	44.5	42.0	39.6	34.6	29.7	26.0	23.5	22.3	19.8	18.5
70°	30.9	30.9	29.7	28.4	24.7	21.0	19.8	17.3	16.1	14.8	13.6
72.5°	19.8	19.8	19.8	17.3	16.1	13.6	13.6	12.4	11.1	9.9	9.9
75°	9.9	11.1	9.9	9.9	8.7	8.7	7.4	7.4	6.2	6.2	4.9
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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°	218.9	218.9	218.9	218.9	218.9	218.9	218.9	218.9	218.9	218.9
2.5°	215.2	211.5	209.0	205.3	202.8	200.3	199.1	197.9	197.9	197.9
5°	209.0	202.8	196.6	190.4	186.7	183.0	179.3	178.1	176.8	176.8
7.5°	201.6	191.7	183.0	175.6	169.4	165.7	162.0	159.5	158.3	158.3
10°	191.7	179.3	169.4	159.5	153.3	148.4	145.9	142.2	142.2	141.0
12.5°	180.5	165.7	154.6	145.9	139.7	133.6	129.8	127.4	126.1	126.1
15°	168.2	153.3	141.0	131.1	124.9	118.7	115.0	112.5	111.3	111.3
17.5°	155.8	139.7	127.4	117.5	111.3	105.1	101.4	98.9	98.9	97.7
20°	143.4	127.4	115.0	105.1	98.9	94.0	90.3	87.8	86.6	87.8
22.5°	132.3	116.2	103.9	95.2	87.8	82.9	79.1	77.9	76.7	76.7
25°	120.0	105.1	94.0	85.3	79.1	74.2	70.5	69.3	68.0	66.8
26°	116.2	101.4	90.3	81.6	75.4	70.5	68.0	65.5	64.3	64.3
27.5°	111.3	95.2	85.3	76.7	70.5	66.8	63.1	61.8	60.6	60.6
30°	100.2	86.6	76.7	69.3	64.3	59.4	56.9	55.6	54.4	54.4
32.5°	91.5	77.9	69.3	63.1	58.1	54.4	51.9	49.5	49.5	49.5
35°	82.9	70.5	63.1	56.9	51.9	48.2	47.0	45.8	44.5	44.5
37.5°	75.4	64.3	56.9	51.9	48.2	44.5	42.0	40.8	40.8	40.8
40°	68.0	59.4	51.9	47.0	43.3	40.8	38.3	37.1	37.1	37.1
42.5°	61.8	53.2	48.2	43.3	39.6	37.1	35.9	34.6	33.4	33.4
45°	56.9	49.5	43.3	39.6	37.1	34.6	32.2	30.9	30.9	30.9
47.5°	50.7	45.8	39.6	35.9	33.4	30.9	29.7	28.4	28.4	28.4
50°	47.0	42.0	37.1	33.4	30.9	28.4	27.2	26.0	26.0	26.0
52.5°	42.0	38.3	34.6	30.9	28.4	26.0	24.7	23.5	23.5	23.5
55°	38.3	34.6	30.9	28.4	26.0	23.5	22.3	21.0	21.0	21.0
57.5°	34.6	30.9	28.4	26.0	23.5	22.3	19.8	19.8	18.5	18.5
60°	30.9	27.2	24.7	23.5	21.0	19.8	17.3	16.1	16.1	16.1
62.5°	26.0	24.7	22.3	19.8	17.3	16.1	14.8	13.6	13.6	13.6
65°	22.3	21.0	18.5	16.1	14.8	13.6	12.4	11.1	11.1	11.1
67.5°	18.5	16.1	14.8	13.6	12.4	11.1	9.9	8.7	7.4	8.7
70°	13.6	12.4	11.1	9.9	8.7	7.4	6.2	6.2	4.9	4.9
72.5°	8.7	7.4	7.4	6.2	4.9	4.9	3.7	3.7	2.5	2.5
75°	4.9	4.9	3.7	3.7	2.5	2.5	1.2	1.2	1.2	1.2
77.5°	2.5	1.2	1.2	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)