

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: P3ART20R709850D010 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: P3ART20R709850D010 E3CLSWW1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 98CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

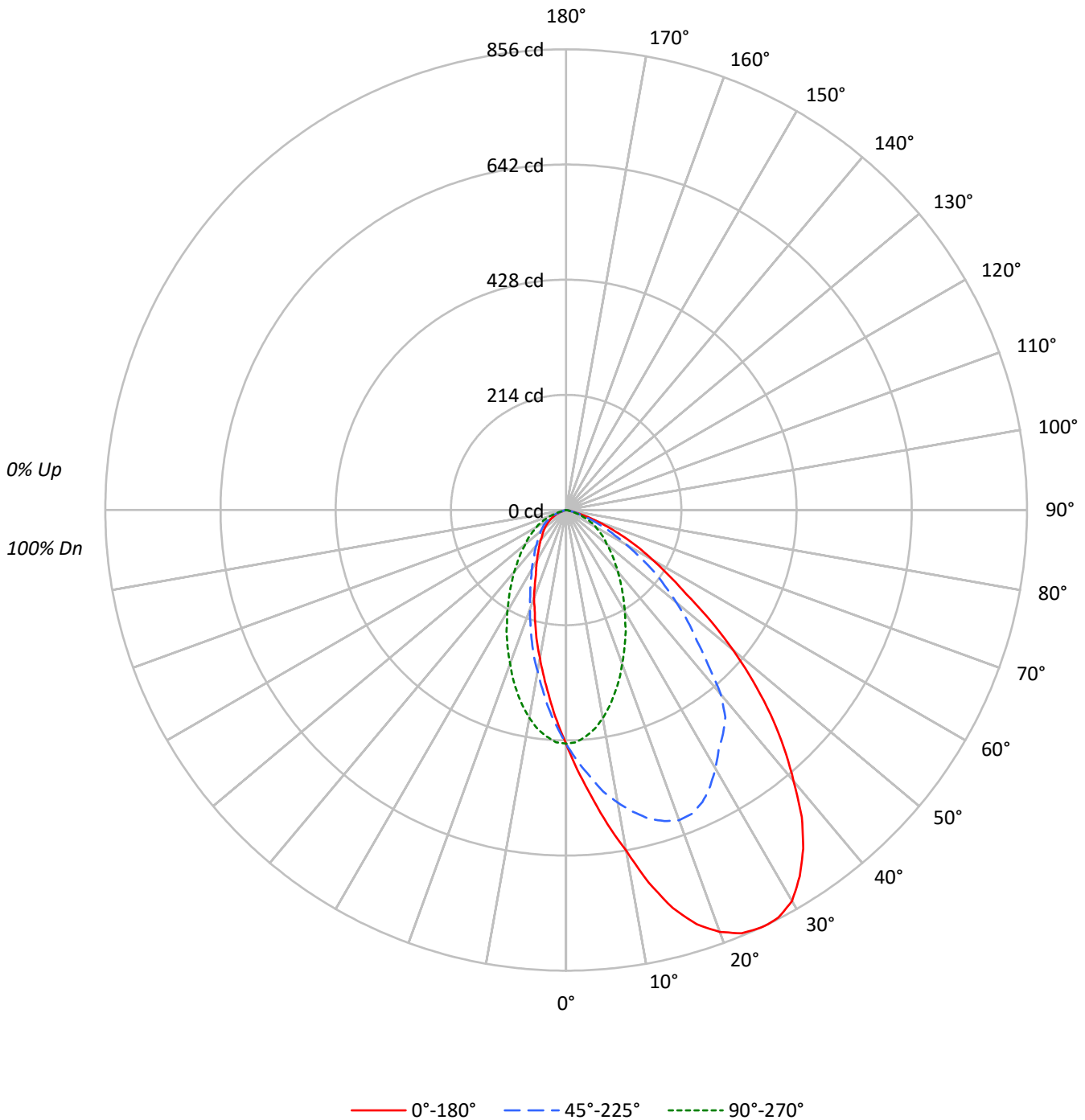
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 865.0 lumens
Efficiency: N/A
Efficacy: 31.6 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): 27.4
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°	95212	95212	95212	95212	95212
5°	117191	109091	92890	81554	77217
10°	143128	122910	87395	67734	62279
15°	173781	134779	79637	56255	50125
20°	194640	143116	70986	45807	40650
25°	207157	144831	62931	37986	32058
30°	212463	140401	55274	32309	27321
35°	205561	135934	48586	27572	23637
40°	188210	127811	42852	24589	21068
45°	166622	106523	38050	22824	19010
50°	138094	91221	33466	20912	17569
55°	104101	75964	30967	19689	15942
60°	81792	57013	27980	18288	13990
65°	61122	42028	24179	15255	11467
70°	39302	26735	17311	11028	6283
75°	16606	14572	8303	4151	2118
80°	3157	3157	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 166622 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	4.8
10°-20°	118.6	13.7
20°-30°	173.4	20.0
30°-40°	188.9	21.8
40°-50°	163.5	18.9
50°-60°	109.5	12.7
60°-70°	56.6	6.5
70°-80°	13.4	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°	333.1	38.5
0°-40°	522.0	60.3
0°-60°	794.9	91.9
0°-90°	865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	865.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	434	434	434	434	434	
5°	532	496	422	370	351	54
15°	766	594	351	248	221	217
25°	856	599	260	157	132	393
35°	768	508	182	103	88	476
45°	537	344	123	74	61	411
55°	272	199	81	52	42	252
65°	118	81	47	29	22	119
75°	20	17	10	5	2	26
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°	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2
2.5°	483.3	480.9	480.9	476.0	471.0	466.1	458.8	451.4	444.1	436.7	431.8
5°	532.4	534.8	532.4	522.6	510.3	495.6	480.9	463.7	446.5	431.8	422.0
7.5°	588.8	588.8	581.4	569.2	552.0	527.5	502.9	473.5	446.5	422.0	409.7
10°	642.8	642.8	630.5	610.9	583.9	552.0	517.7	478.4	441.6	407.3	392.5
12.5°	709.0	706.6	691.8	660.0	620.7	574.1	527.5	478.4	434.2	392.5	372.9
15°	765.5	763.0	743.4	704.1	652.6	593.7	529.9	473.5	419.5	372.9	350.8
17.5°	807.2	802.3	780.2	738.5	679.6	606.0	532.4	463.7	402.4	350.8	328.8
20°	834.1	831.7	807.2	758.1	694.3	613.3	529.9	451.4	385.2	328.8	304.2
22.5°	851.3	846.4	821.9	767.9	694.3	610.9	520.1	434.2	363.1	306.7	282.1
25°	856.2	853.8	824.3	765.5	686.9	598.6	505.4	417.1	341.0	284.6	260.1
26°	856.2	853.8	824.3	763.0	682.0	591.3	498.0	409.7	333.7	274.8	252.7
27.5°	853.8	851.3	819.4	755.6	672.2	579.0	483.3	395.0	318.9	262.5	238.0
30°	839.1	834.1	802.3	738.5	650.1	554.5	458.8	372.9	296.9	240.4	218.3
32.5°	807.2	802.3	767.9	709.0	625.6	527.5	431.8	348.4	274.8	218.3	198.7
35°	767.9	763.0	728.6	672.2	591.3	507.8	402.4	321.4	250.2	201.2	181.5
37.5°	718.8	711.5	682.0	623.2	549.6	485.8	377.8	294.4	228.2	181.5	164.4
40°	657.5	655.0	628.1	574.1	500.5	446.5	363.1	294.4	208.5	164.4	149.7
42.5°	598.6	593.7	569.2	522.6	456.3	390.1	318.9	282.1	193.8	147.2	134.9
45°	537.3	532.4	510.3	471.0	409.7	343.5	343.5	242.9	166.8	134.9	122.7
47.5°	471.0	466.1	449.0	419.5	365.6	306.7	250.2	198.7	152.1	120.2	110.4
50°	404.8	407.3	392.5	363.1	321.4	267.4	215.9	166.8	130.0	107.9	98.1
52.5°	338.6	336.1	326.3	306.7	277.2	230.6	184.0	142.3	112.9	95.7	90.8
55°	272.3	274.8	269.9	257.6	233.1	198.7	154.6	122.7	100.6	85.9	81.0
57.5°	225.7	228.2	218.3	211.0	191.4	161.9	127.6	103.0	85.9	76.1	71.1
60°	186.5	188.9	181.5	171.7	157.0	130.0	103.0	85.9	76.1	68.7	63.8
62.5°	152.1	149.7	144.7	134.9	122.7	103.0	83.4	71.1	63.8	58.9	56.4
65°	117.8	117.8	112.9	105.5	95.7	81.0	66.2	58.9	54.0	49.1	46.6
67.5°	88.3	88.3	83.4	78.5	68.7	58.9	51.5	46.6	44.2	39.3	36.8
70°	61.3	61.3	58.9	56.4	49.1	41.7	39.3	34.3	31.9	29.4	27.0
72.5°	39.3	39.3	39.3	34.3	31.9	27.0	27.0	24.5	22.1	19.6	19.6
75°	19.6	22.1	19.6	19.6	17.2	17.2	14.7	14.7	12.3	12.3	9.8
77.5°	7.4	7.4	7.4	7.4	7.4	7.4	4.9	4.9	4.9	4.9	4.9
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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°	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2	434.2
2.5°	426.9	419.5	414.6	407.3	402.4	397.4	395.0	392.5	392.5	392.5
5°	414.6	402.4	390.1	377.8	370.5	363.1	355.7	353.3	350.8	350.8
7.5°	399.9	380.3	363.1	348.4	336.1	328.8	321.4	316.5	314.0	314.0
10°	380.3	355.7	336.1	316.5	304.2	294.4	289.5	282.1	282.1	279.7
12.5°	358.2	328.8	306.7	289.5	277.2	265.0	257.6	252.7	250.2	250.2
15°	333.7	304.2	279.7	260.1	247.8	235.5	228.2	223.3	220.8	220.8
17.5°	309.1	277.2	252.7	233.1	220.8	208.5	201.2	196.3	196.3	193.8
20°	284.6	252.7	228.2	208.5	196.3	186.5	179.1	174.2	171.7	174.2
22.5°	262.5	230.6	206.1	188.9	174.2	164.4	157.0	154.6	152.1	152.1
25°	238.0	208.5	186.5	169.3	157.0	147.2	139.8	137.4	134.9	132.5
26°	230.6	201.2	179.1	161.9	149.7	139.8	134.9	130.0	127.6	127.6
27.5°	220.8	188.9	169.3	152.1	139.8	132.5	125.1	122.7	120.2	120.2
30°	198.7	171.7	152.1	137.4	127.6	117.8	112.9	110.4	107.9	107.9
32.5°	181.5	154.6	137.4	125.1	115.3	107.9	103.0	98.1	98.1	98.1
35°	164.4	139.8	125.1	112.9	103.0	95.7	93.2	90.8	88.3	88.3
37.5°	149.7	127.6	112.9	103.0	95.7	88.3	83.4	81.0	81.0	81.0
40°	134.9	117.8	103.0	93.2	85.9	81.0	76.1	73.6	73.6	73.6
42.5°	122.7	105.5	95.7	85.9	78.5	73.6	71.1	68.7	66.2	66.2
45°	112.9	98.1	85.9	78.5	73.6	68.7	63.8	61.3	61.3	61.3
47.5°	100.6	90.8	78.5	71.1	66.2	61.3	58.9	56.4	56.4	56.4
50°	93.2	83.4	73.6	66.2	61.3	56.4	54.0	51.5	51.5	51.5
52.5°	83.4	76.1	68.7	61.3	56.4	51.5	49.1	46.6	46.6	46.6
55°	76.1	68.7	61.3	56.4	51.5	46.6	44.2	41.7	41.7	41.7
57.5°	68.7	61.3	56.4	51.5	46.6	44.2	39.3	39.3	36.8	36.8
60°	61.3	54.0	49.1	46.6	41.7	39.3	34.3	31.9	31.9	31.9
62.5°	51.5	49.1	44.2	39.3	34.3	31.9	29.4	27.0	27.0	27.0
65°	44.2	41.7	36.8	31.9	29.4	27.0	24.5	22.1	22.1	22.1
67.5°	36.8	31.9	29.4	27.0	24.5	22.1	19.6	17.2	14.7	17.2
70°	27.0	24.5	22.1	19.6	17.2	14.7	12.3	12.3	9.8	9.8
72.5°	17.2	14.7	14.7	12.3	9.8	9.8	7.4	7.4	4.9	4.9
75°	9.8	9.8	7.4	7.4	4.9	4.9	2.5	2.5	2.5	2.5
77.5°	4.9	2.5	2.5	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)