

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: P3ART20R709030D010 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: P3ART20R709030D010 E3CLSWW1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

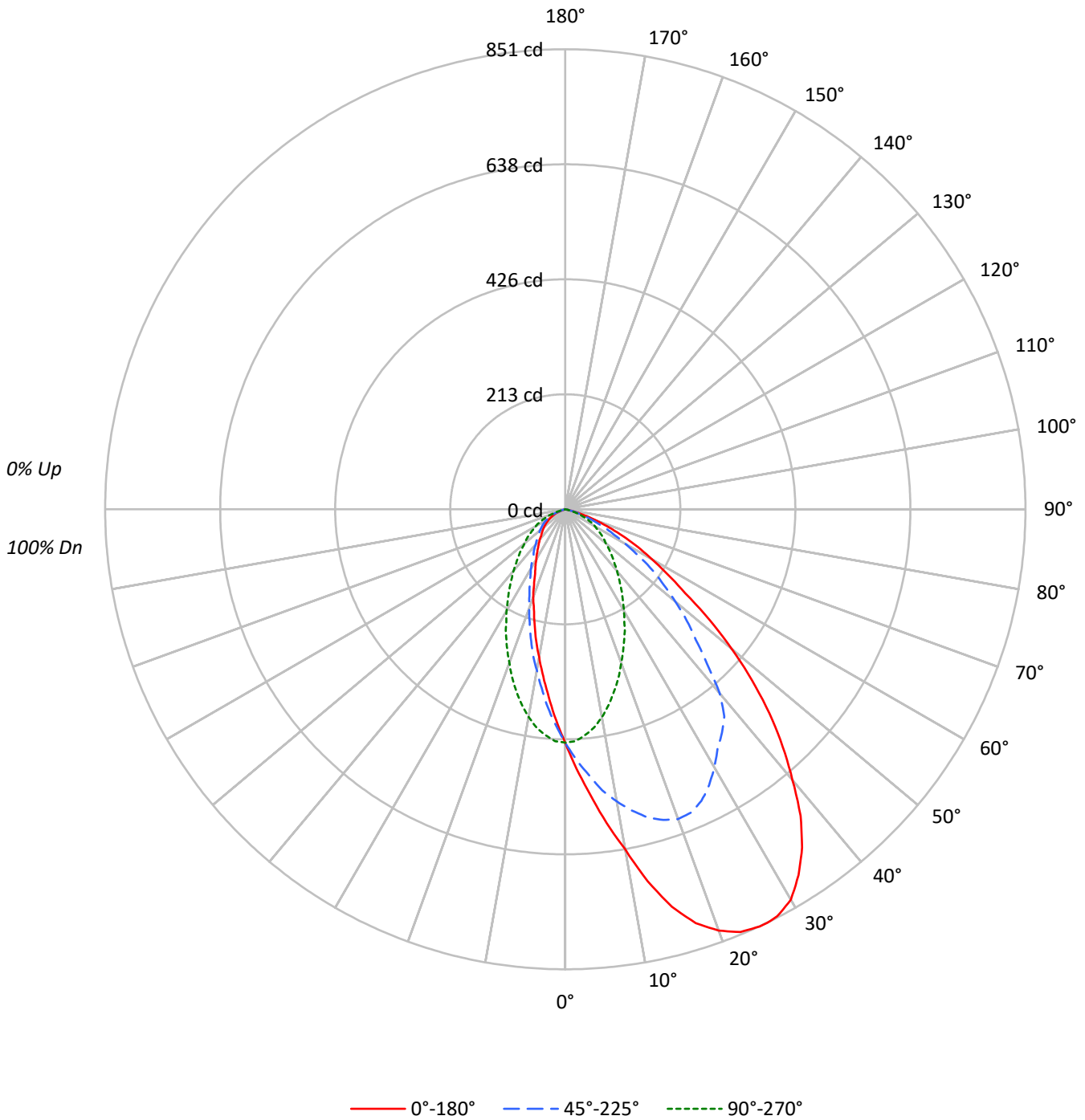
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 860.0 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): 28.8
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	100				100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78				78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53				53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47				47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43				43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39				39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	94663	94663	94663	94663	94663
5°	116509	108452	92340	81070	76777
10°	142304	122198	86906	67356	61923
15°	172759	134008	79183	55937	49830
20°	193520	142299	70589	45527	40417
25°	205972	144008	62568	37768	31865
30°	211222	139591	54970	32106	27169
35°	204383	135158	48318	27412	23503
40°	187122	127067	42594	24446	20954
45°	165661	105902	37833	22700	18917
50°	137309	90709	33295	20810	17466
55°	103490	75543	30775	19574	15866
60°	81309	56706	27805	18200	13902
65°	60759	41768	24023	15203	11415
70°	39109	26607	17182	10963	6283
75°	16521	14488	8303	4151	2033
80°	3031	3031	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 165661 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	4.8
10°-20°	117.9	13.7
20°-30°	172.3	20.0
30°-40°	187.8	21.8
40°-50°	162.5	18.9
50°-60°	108.9	12.7
60°-70°	56.2	6.5
70°-80°	13.3	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°	331.2	38.5
0°-40°	519.0	60.3
0°-60°	790.3	91.9
0°-90°	860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	860.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	432	432	432	432	432	
5°	529	493	420	368	349	54
15°	761	590	349	246	220	216
25°	851	595	259	156	132	391
35°	764	505	180	102	88	473
45°	534	342	122	73	61	409
55°	271	198	80	51	42	251
65°	117	80	46	29	22	118
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°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7
2.5°	480.5	478.1	478.1	473.2	468.3	463.4	456.1	448.8	441.5	434.2	429.3
5°	529.3	531.7	529.3	519.5	507.4	492.7	478.1	461.0	443.9	429.3	419.5
7.5°	585.4	585.4	578.1	565.9	548.8	524.4	500.0	470.8	443.9	419.5	407.3
10°	639.1	639.1	626.9	607.4	580.5	548.8	514.7	475.6	439.1	404.9	390.3
12.5°	704.9	702.5	687.9	656.1	617.1	570.8	524.4	475.6	431.7	390.3	370.8
15°	761.0	758.6	739.1	700.0	648.8	590.3	526.9	470.8	417.1	370.8	348.8
17.5°	802.5	797.6	775.7	734.2	675.7	602.5	529.3	461.0	400.0	348.8	326.9
20°	829.3	826.9	802.5	753.7	690.3	609.8	526.9	448.8	383.0	326.9	302.5
22.5°	846.4	841.5	817.1	763.5	690.3	607.4	517.1	431.7	361.0	304.9	280.5
25°	851.3	848.8	819.6	761.0	683.0	595.2	502.5	414.7	339.0	282.9	258.6
26°	851.3	848.8	819.6	758.6	678.1	587.8	495.2	407.3	331.7	273.2	251.2
27.5°	848.8	846.4	814.7	751.3	668.3	575.6	480.5	392.7	317.1	261.0	236.6
30°	834.2	829.3	797.6	734.2	646.4	551.3	456.1	370.8	295.1	239.0	217.1
32.5°	802.5	797.6	763.5	704.9	622.0	524.4	429.3	346.4	273.2	217.1	197.6
35°	763.5	758.6	724.4	668.3	587.8	504.9	400.0	319.5	248.8	200.0	180.5
37.5°	714.7	707.4	678.1	619.6	546.4	483.0	375.6	292.7	226.8	180.5	163.4
40°	653.7	651.3	624.4	570.8	497.6	443.9	361.0	292.7	207.3	163.4	148.8
42.5°	595.2	590.3	565.9	519.5	453.7	387.8	317.1	280.5	192.7	146.4	134.2
45°	534.2	529.3	507.4	468.3	407.3	341.5	341.5	241.5	165.9	134.2	122.0
47.5°	468.3	463.4	446.4	417.1	363.4	304.9	248.8	197.6	151.2	119.5	109.8
50°	402.5	404.9	390.3	361.0	319.5	265.9	214.6	165.9	129.3	107.3	97.6
52.5°	336.6	334.2	324.4	304.9	275.6	229.3	182.9	141.5	112.2	95.1	90.2
55°	270.7	273.2	268.3	256.1	231.7	197.6	153.7	122.0	100.0	85.4	80.5
57.5°	224.4	226.8	217.1	209.8	190.3	161.0	126.8	102.4	85.4	75.6	70.7
60°	185.4	187.8	180.5	170.7	156.1	129.3	102.4	85.4	75.6	68.3	63.4
62.5°	151.2	148.8	143.9	134.2	122.0	102.4	82.9	70.7	63.4	58.5	56.1
65°	117.1	117.1	112.2	104.9	95.1	80.5	65.9	58.5	53.7	48.8	46.3
67.5°	87.8	87.8	82.9	78.1	68.3	58.5	51.2	46.3	43.9	39.0	36.6
70°	61.0	61.0	58.5	56.1	48.8	41.5	39.0	34.1	31.7	29.3	26.8
72.5°	39.0	39.0	39.0	34.1	31.7	26.8	26.8	24.4	22.0	19.5	19.5
75°	19.5	22.0	19.5	19.5	17.1	17.1	14.6	14.6	12.2	12.2	9.8
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	4.9	4.9	4.9	4.9	4.9
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	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°	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7	431.7
2.5°	424.4	417.1	412.2	404.9	400.0	395.1	392.7	390.3	390.3	390.3
5°	412.2	400.0	387.8	375.6	368.3	361.0	353.7	351.2	348.8	348.8
7.5°	397.6	378.1	361.0	346.4	334.2	326.9	319.5	314.7	312.2	312.2
10°	378.1	353.7	334.2	314.7	302.5	292.7	287.8	280.5	280.5	278.1
12.5°	356.1	326.9	304.9	287.8	275.6	263.4	256.1	251.2	248.8	248.8
15°	331.7	302.5	278.1	258.6	246.4	234.2	226.8	222.0	219.5	219.5
17.5°	307.3	275.6	251.2	231.7	219.5	207.3	200.0	195.1	195.1	192.7
20°	282.9	251.2	226.8	207.3	195.1	185.4	178.1	173.2	170.7	173.2
22.5°	261.0	229.3	204.9	187.8	173.2	163.4	156.1	153.7	151.2	151.2
25°	236.6	207.3	185.4	168.3	156.1	146.4	139.0	136.6	134.2	131.7
26°	229.3	200.0	178.1	161.0	148.8	139.0	134.2	129.3	126.8	126.8
27.5°	219.5	187.8	168.3	151.2	139.0	131.7	124.4	122.0	119.5	119.5
30°	197.6	170.7	151.2	136.6	126.8	117.1	112.2	109.8	107.3	107.3
32.5°	180.5	153.7	136.6	124.4	114.6	107.3	102.4	97.6	97.6	97.6
35°	163.4	139.0	124.4	112.2	102.4	95.1	92.7	90.2	87.8	87.8
37.5°	148.8	126.8	112.2	102.4	95.1	87.8	82.9	80.5	80.5	80.5
40°	134.2	117.1	102.4	92.7	85.4	80.5	75.6	73.2	73.2	73.2
42.5°	122.0	104.9	95.1	85.4	78.1	73.2	70.7	68.3	65.9	65.9
45°	112.2	97.6	85.4	78.1	73.2	68.3	63.4	61.0	61.0	61.0
47.5°	100.0	90.2	78.1	70.7	65.9	61.0	58.5	56.1	56.1	56.1
50°	92.7	82.9	73.2	65.9	61.0	56.1	53.7	51.2	51.2	51.2
52.5°	82.9	75.6	68.3	61.0	56.1	51.2	48.8	46.3	46.3	46.3
55°	75.6	68.3	61.0	56.1	51.2	46.3	43.9	41.5	41.5	41.5
57.5°	68.3	61.0	56.1	51.2	46.3	43.9	39.0	39.0	36.6	36.6
60°	61.0	53.7	48.8	46.3	41.5	39.0	34.1	31.7	31.7	31.7
62.5°	51.2	48.8	43.9	39.0	34.1	31.7	29.3	26.8	26.8	26.8
65°	43.9	41.5	36.6	31.7	29.3	26.8	24.4	22.0	22.0	22.0
67.5°	36.6	31.7	29.3	26.8	24.4	22.0	19.5	17.1	14.6	17.1
70°	26.8	24.4	22.0	19.5	17.1	14.6	12.2	12.2	9.8	9.8
72.5°	17.1	14.6	14.6	12.2	9.8	9.8	7.3	7.3	4.9	4.9
75°	9.8	9.8	7.3	7.3	4.9	4.9	2.4	2.4	2.4	2.4
77.5°	4.9	2.4	2.4	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)