

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: P3ART20R709840D010 E3CLSWW1MMS

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: P3ART20R709840D010 E3CLSWW1MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , E3CLSWW1MMS TRIM
Light Source: -
Ballast/Driver: -

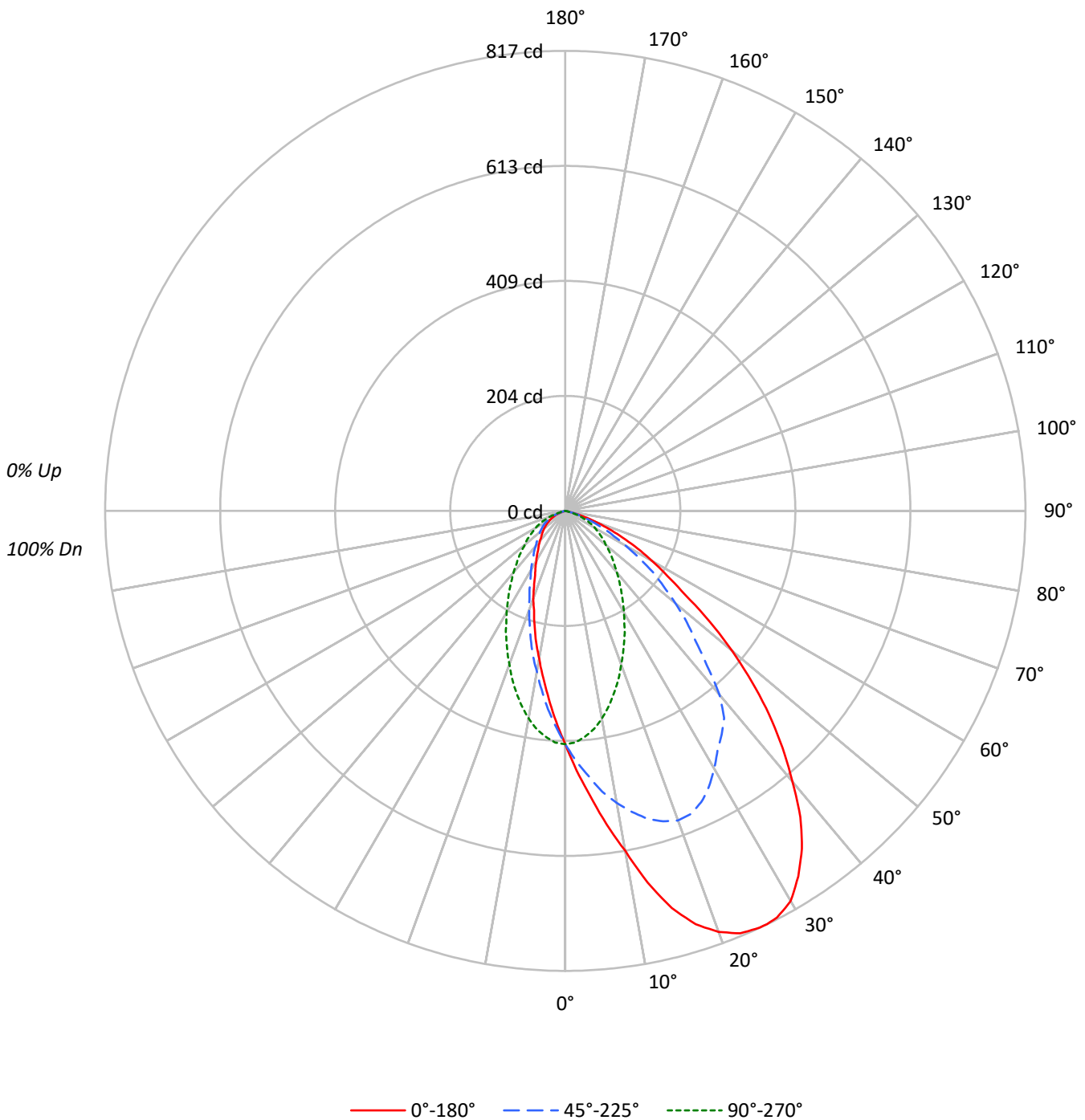
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 825.0 lumens
Efficiency: N/A
Efficacy: 30.1 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	90826	90826	90826	90826	90826
5°	111776	104050	88598	77768	73652
10°	136515	117232	83365	64595	59407
15°	165744	128559	75960	53644	47810
20°	185656	136512	67696	43684	38760
25°	197576	138129	60003	36244	30582
30°	202639	133894	52742	30815	26080
35°	196058	129670	46364	26314	22540
40°	179508	121914	40848	23444	20095
45°	158900	101592	36283	21770	18141
50°	131714	87025	31931	19957	16750
55°	99284	72447	29514	18771	15216
60°	77976	54382	26665	17455	13332
65°	58268	40056	23089	14580	10948
70°	37506	25517	16477	10515	6027
75°	15843	13895	7964	3982	1949
80°	2904	2904	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 158900 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	4.8
10°-20°	113.1	13.7
20°-30°	165.3	20.0
30°-40°	180.1	21.8
40°-50°	155.9	18.9
50°-60°	104.4	12.7
60°-70°	53.9	6.5
70°-80°	12.8	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°	317.7	38.5
0°-40°	497.9	60.3
0°-60°	758.2	91.9
0°-90°	825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	825.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	414	414	414	414	414	
5°	508	473	402	353	335	52
15°	730	566	335	236	211	207
25°	817	571	248	150	126	375
35°	732	484	173	98	84	454
45°	512	328	117	70	58	392
55°	260	190	77	49	40	240
65°	112	77	44	28	21	113
75°	19	16	9	5	2	25
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°	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2
2.5°	461.0	458.6	458.6	453.9	449.3	444.6	437.6	430.5	423.5	416.5	411.8
5°	507.8	510.1	507.8	498.4	486.7	472.7	458.6	442.2	425.9	411.8	402.5
7.5°	561.6	561.6	554.6	542.9	526.5	503.1	479.7	451.6	425.9	402.5	390.8
10°	613.1	613.1	601.4	582.6	556.9	526.5	493.7	456.3	421.2	388.4	374.4
12.5°	676.2	673.9	659.9	629.4	592.0	547.5	503.1	456.3	414.2	374.4	355.7
15°	730.1	727.7	709.0	671.6	622.4	566.3	505.4	451.6	400.1	355.7	334.6
17.5°	769.8	765.2	744.1	704.3	648.2	578.0	507.8	442.2	383.7	334.6	313.5
20°	795.6	793.2	769.8	723.0	662.2	585.0	505.4	430.5	367.4	313.5	290.1
22.5°	812.0	807.3	783.9	732.4	662.2	582.6	496.1	414.2	346.3	292.5	269.1
25°	816.6	814.3	786.2	730.1	655.2	570.9	482.0	397.8	325.2	271.4	248.0
26°	816.6	814.3	786.2	727.7	650.5	563.9	475.0	390.8	318.2	262.1	241.0
27.5°	814.3	812.0	781.5	720.7	641.1	552.2	461.0	376.7	304.2	250.4	227.0
30°	800.3	795.6	765.2	704.3	620.1	528.8	437.6	355.7	283.1	229.3	208.3
32.5°	769.8	765.2	732.4	676.2	596.7	503.1	411.8	332.3	262.1	208.3	189.5
35°	732.4	727.7	695.0	641.1	563.9	484.4	383.7	306.5	238.7	191.9	173.2
37.5°	685.6	678.6	650.5	594.3	524.1	463.3	360.3	280.8	217.6	173.2	156.8
40°	627.1	624.8	599.0	547.5	477.3	425.9	346.3	280.8	198.9	156.8	142.7
42.5°	570.9	566.3	542.9	498.4	435.2	372.0	304.2	269.1	184.9	140.4	128.7
45°	512.4	507.8	486.7	449.3	390.8	327.6	327.6	231.7	159.1	128.7	117.0
47.5°	449.3	444.6	428.2	400.1	348.6	292.5	238.7	189.5	145.1	114.7	105.3
50°	386.1	388.4	374.4	346.3	306.5	255.1	205.9	159.1	124.0	103.0	93.6
52.5°	322.9	320.6	311.2	292.5	264.4	220.0	175.5	135.7	107.6	91.3	86.6
55°	259.7	262.1	257.4	245.7	222.3	189.5	147.4	117.0	95.9	81.9	77.2
57.5°	215.3	217.6	208.3	201.2	182.5	154.4	121.7	98.3	81.9	72.5	67.9
60°	177.8	180.2	173.2	163.8	149.8	124.0	98.3	81.9	72.5	65.5	60.8
62.5°	145.1	142.7	138.1	128.7	117.0	98.3	79.6	67.9	60.8	56.2	53.8
65°	112.3	112.3	107.6	100.6	91.3	77.2	63.2	56.2	51.5	46.8	44.5
67.5°	84.2	84.2	79.6	74.9	65.5	56.2	49.1	44.5	42.1	37.4	35.1
70°	58.5	58.5	56.2	53.8	46.8	39.8	37.4	32.8	30.4	28.1	25.7
72.5°	37.4	37.4	37.4	32.8	30.4	25.7	25.7	23.4	21.1	18.7	18.7
75°	18.7	21.1	18.7	18.7	16.4	16.4	14.0	14.0	11.7	11.7	9.4
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	4.7	4.7	4.7	4.7	4.7
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	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°	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2	414.2
2.5°	407.1	400.1	395.4	388.4	383.7	379.1	376.7	374.4	374.4	374.4
5°	395.4	383.7	372.0	360.3	353.3	346.3	339.3	336.9	334.6	334.6
7.5°	381.4	362.7	346.3	332.3	320.6	313.5	306.5	301.8	299.5	299.5
10°	362.7	339.3	320.6	301.8	290.1	280.8	276.1	269.1	269.1	266.8
12.5°	341.6	313.5	292.5	276.1	264.4	252.7	245.7	241.0	238.7	238.7
15°	318.2	290.1	266.8	248.0	236.3	224.6	217.6	212.9	210.6	210.6
17.5°	294.8	264.4	241.0	222.3	210.6	198.9	191.9	187.2	187.2	184.9
20°	271.4	241.0	217.6	198.9	187.2	177.8	170.8	166.1	163.8	166.1
22.5°	250.4	220.0	196.6	180.2	166.1	156.8	149.8	147.4	145.1	145.1
25°	227.0	198.9	177.8	161.5	149.8	140.4	133.4	131.0	128.7	126.4
26°	220.0	191.9	170.8	154.4	142.7	133.4	128.7	124.0	121.7	121.7
27.5°	210.6	180.2	161.5	145.1	133.4	126.4	119.3	117.0	114.7	114.7
30°	189.5	163.8	145.1	131.0	121.7	112.3	107.6	105.3	103.0	103.0
32.5°	173.2	147.4	131.0	119.3	110.0	103.0	98.3	93.6	93.6	93.6
35°	156.8	133.4	119.3	107.6	98.3	91.3	88.9	86.6	84.2	84.2
37.5°	142.7	121.7	107.6	98.3	91.3	84.2	79.6	77.2	77.2	77.2
40°	128.7	112.3	98.3	88.9	81.9	77.2	72.5	70.2	70.2	70.2
42.5°	117.0	100.6	91.3	81.9	74.9	70.2	67.9	65.5	63.2	63.2
45°	107.6	93.6	81.9	74.9	70.2	65.5	60.8	58.5	58.5	58.5
47.5°	95.9	86.6	74.9	67.9	63.2	58.5	56.2	53.8	53.8	53.8
50°	88.9	79.6	70.2	63.2	58.5	53.8	51.5	49.1	49.1	49.1
52.5°	79.6	72.5	65.5	58.5	53.8	49.1	46.8	44.5	44.5	44.5
55°	72.5	65.5	58.5	53.8	49.1	44.5	42.1	39.8	39.8	39.8
57.5°	65.5	58.5	53.8	49.1	44.5	42.1	37.4	37.4	35.1	35.1
60°	58.5	51.5	46.8	44.5	39.8	37.4	32.8	30.4	30.4	30.4
62.5°	49.1	46.8	42.1	37.4	32.8	30.4	28.1	25.7	25.7	25.7
65°	42.1	39.8	35.1	30.4	28.1	25.7	23.4	21.1	21.1	21.1
67.5°	35.1	30.4	28.1	25.7	23.4	21.1	18.7	16.4	14.0	16.4
70°	25.7	23.4	21.1	18.7	16.4	14.0	11.7	11.7	9.4	9.4
72.5°	16.4	14.0	14.0	11.7	9.4	9.4	7.0	7.0	4.7	4.7
75°	9.4	9.4	7.0	7.0	4.7	4.7	2.3	2.3	2.3	2.3
77.5°	4.7	2.3	2.3	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)