

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: P3ART20R709830D010 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: P3ART20R709830D010 E3CLSWW1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

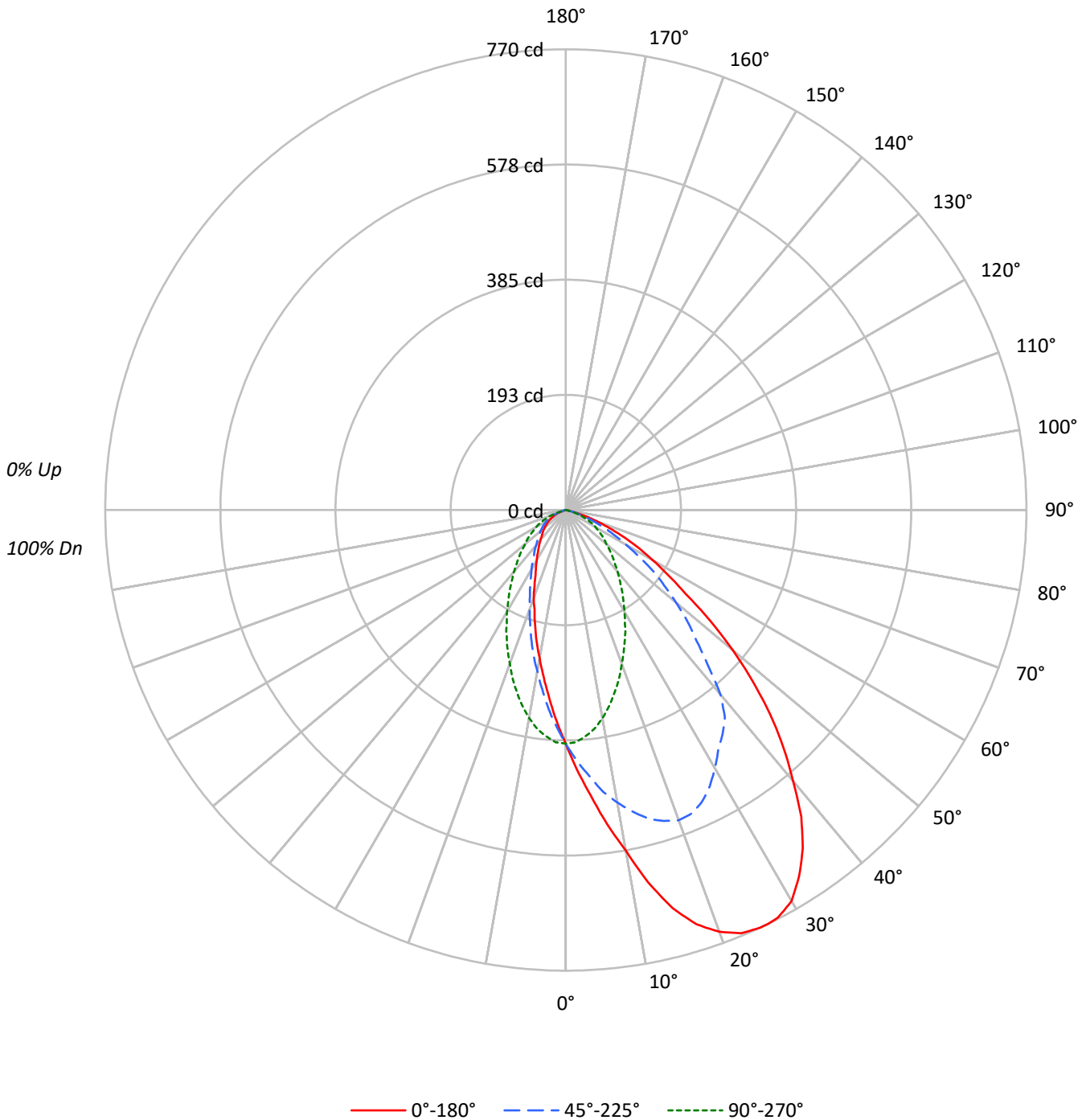
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 778.0 lumens
Efficiency: N/A
Efficacy: 28.4 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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CATALOG NUMBER: P3ART20R709830D010 E3CLSWW1MW

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°	85651	85651	85651	85651	85651
5°	105393	98107	83535	73343	69447
10°	128722	110552	78622	60921	56022
15°	156301	121227	71624	50602	45085
20°	175062	128741	63846	41187	36567
25°	186325	130266	56592	34163	28840
30°	191093	126273	49729	29042	24586
35°	184895	122282	43714	24815	21255
40°	169289	114958	38529	22099	18950
45°	149845	95793	34205	20529	17118
50°	124209	82044	30123	18831	15795
55°	93626	68318	27832	17701	14336
60°	73547	51312	25173	16446	12587
65°	54948	37773	21740	13750	10325
70°	35391	24043	15580	9873	5642
75°	14996	13047	7456	3728	1864
80°	2778	2778	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 149845 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	4.8
10°-20°	106.6	13.7
20°-30°	155.9	20.0
30°-40°	169.9	21.8
40°-50°	147.0	18.9
50°-60°	98.5	12.7
60°-70°	50.9	6.5
70°-80°	12.0	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°	299.6	38.5
0°-40°	469.5	60.3
0°-60°	715.0	91.9
0°-90°	778.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	778.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	391	391	391	391	391	
5°	479	446	380	333	316	49
15°	688	534	316	223	199	195
25°	770	538	234	141	119	354
35°	691	457	163	93	79	428
45°	483	309	110	66	55	370
55°	245	179	73	46	38	227
65°	106	73	42	26	20	107
75°	18	15	9	4	2	23
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6
2.5°	434.7	432.5	432.5	428.1	423.7	419.3	412.6	406.0	399.4	392.8	388.4
5°	478.8	481.0	478.8	470.0	459.0	445.7	432.5	417.0	401.6	388.4	379.5
7.5°	529.6	529.6	523.0	511.9	496.5	474.4	452.4	425.9	401.6	379.5	368.5
10°	578.1	578.1	567.1	549.4	525.2	496.5	465.6	430.3	397.2	366.3	353.1
12.5°	637.7	635.5	622.3	593.6	558.3	516.3	474.4	430.3	390.6	353.1	335.4
15°	688.5	686.3	668.6	633.3	587.0	534.0	476.6	425.9	377.3	335.4	315.5
17.5°	726.0	721.6	701.7	664.2	611.2	545.0	478.8	417.0	361.9	315.5	295.7
20°	750.2	748.0	726.0	681.8	624.5	551.7	476.6	406.0	346.4	295.7	273.6
22.5°	765.7	761.3	739.2	690.7	624.5	549.4	467.8	390.6	326.6	275.8	253.8
25°	770.1	767.9	741.4	688.5	617.9	538.4	454.6	375.1	306.7	256.0	233.9
26°	770.1	767.9	741.4	686.3	613.4	531.8	447.9	368.5	300.1	247.1	227.3
27.5°	767.9	765.7	737.0	679.6	604.6	520.8	434.7	355.3	286.9	236.1	214.0
30°	754.7	750.2	721.6	664.2	584.8	498.7	412.6	335.4	267.0	216.2	196.4
32.5°	726.0	721.6	690.7	637.7	562.7	474.4	388.4	313.3	247.1	196.4	178.7
35°	690.7	686.3	655.4	604.6	531.8	456.8	361.9	289.1	225.1	180.9	163.3
37.5°	646.5	639.9	613.4	560.5	494.3	436.9	339.8	264.8	205.2	163.3	147.8
40°	591.4	589.2	564.9	516.3	450.1	401.6	326.6	264.8	187.6	147.8	134.6
42.5°	538.4	534.0	511.9	470.0	410.4	350.9	286.9	253.8	174.3	132.4	121.4
45°	483.2	478.8	459.0	423.7	368.5	308.9	308.9	218.5	150.0	121.4	110.3
47.5°	423.7	419.3	403.8	377.3	328.8	275.8	225.1	178.7	136.8	108.1	99.3
50°	364.1	366.3	353.1	326.6	289.1	240.5	194.2	150.0	117.0	97.1	88.3
52.5°	304.5	302.3	293.5	275.8	249.3	207.4	165.5	128.0	101.5	86.1	81.6
55°	244.9	247.1	242.7	231.7	209.6	178.7	139.0	110.3	90.5	77.2	72.8
57.5°	203.0	205.2	196.4	189.8	172.1	145.6	114.7	92.7	77.2	68.4	64.0
60°	167.7	169.9	163.3	154.5	141.2	117.0	92.7	77.2	68.4	61.8	57.4
62.5°	136.8	134.6	130.2	121.4	110.3	92.7	75.0	64.0	57.4	53.0	50.8
65°	105.9	105.9	101.5	94.9	86.1	72.8	59.6	53.0	48.5	44.1	41.9
67.5°	79.4	79.4	75.0	70.6	61.8	53.0	46.3	41.9	39.7	35.3	33.1
70°	55.2	55.2	53.0	50.8	44.1	37.5	35.3	30.9	28.7	26.5	24.3
72.5°	35.3	35.3	35.3	30.9	28.7	24.3	24.3	22.1	19.9	17.7	17.7
75°	17.7	19.9	17.7	17.7	15.4	15.4	13.2	13.2	11.0	11.0	8.8
77.5°	6.6	6.6	6.6	6.6	6.6	6.6	4.4	4.4	4.4	4.4	4.4
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	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°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6
2.5°	384.0	377.3	372.9	366.3	361.9	357.5	355.3	353.1	353.1	353.1
5°	372.9	361.9	350.9	339.8	333.2	326.6	320.0	317.8	315.5	315.5
7.5°	359.7	342.0	326.6	313.3	302.3	295.7	289.1	284.7	282.4	282.4
10°	342.0	320.0	302.3	284.7	273.6	264.8	260.4	253.8	253.8	251.6
12.5°	322.2	295.7	275.8	260.4	249.3	238.3	231.7	227.3	225.1	225.1
15°	300.1	273.6	251.6	233.9	222.9	211.8	205.2	200.8	198.6	198.6
17.5°	278.0	249.3	227.3	209.6	198.6	187.6	180.9	176.5	176.5	174.3
20°	256.0	227.3	205.2	187.6	176.5	167.7	161.1	156.7	154.5	156.7
22.5°	236.1	207.4	185.4	169.9	156.7	147.8	141.2	139.0	136.8	136.8
25°	214.0	187.6	167.7	152.3	141.2	132.4	125.8	123.6	121.4	119.2
26°	207.4	180.9	161.1	145.6	134.6	125.8	121.4	117.0	114.7	114.7
27.5°	198.6	169.9	152.3	136.8	125.8	119.2	112.5	110.3	108.1	108.1
30°	178.7	154.5	136.8	123.6	114.7	105.9	101.5	99.3	97.1	97.1
32.5°	163.3	139.0	123.6	112.5	103.7	97.1	92.7	88.3	88.3	88.3
35°	147.8	125.8	112.5	101.5	92.7	86.1	83.9	81.6	79.4	79.4
37.5°	134.6	114.7	101.5	92.7	86.1	79.4	75.0	72.8	72.8	72.8
40°	121.4	105.9	92.7	83.9	77.2	72.8	68.4	66.2	66.2	66.2
42.5°	110.3	94.9	86.1	77.2	70.6	66.2	64.0	61.8	59.6	59.6
45°	101.5	88.3	77.2	70.6	66.2	61.8	57.4	55.2	55.2	55.2
47.5°	90.5	81.6	70.6	64.0	59.6	55.2	53.0	50.8	50.8	50.8
50°	83.9	75.0	66.2	59.6	55.2	50.8	48.5	46.3	46.3	46.3
52.5°	75.0	68.4	61.8	55.2	50.8	46.3	44.1	41.9	41.9	41.9
55°	68.4	61.8	55.2	50.8	46.3	41.9	39.7	37.5	37.5	37.5
57.5°	61.8	55.2	50.8	46.3	41.9	39.7	35.3	35.3	33.1	33.1
60°	55.2	48.5	44.1	41.9	37.5	35.3	30.9	28.7	28.7	28.7
62.5°	46.3	44.1	39.7	35.3	30.9	28.7	26.5	24.3	24.3	24.3
65°	39.7	37.5	33.1	28.7	26.5	24.3	22.1	19.9	19.9	19.9
67.5°	33.1	28.7	26.5	24.3	22.1	19.9	17.7	15.4	13.2	15.4
70°	24.3	22.1	19.9	17.7	15.4	13.2	11.0	11.0	8.8	8.8
72.5°	15.4	13.2	13.2	11.0	8.8	8.8	6.6	6.6	4.4	4.4
75°	8.8	8.8	6.6	6.6	4.4	4.4	2.2	2.2	2.2	2.2
77.5°	4.4	2.2	2.2	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)