

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 E3LCWW1WMH

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 (G1-2509-551-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART20R709850D010 E3LCWW1WMH
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 98CRI , E3LCWW1WMH TRIM
Light Source: -
Ballast/Driver: -

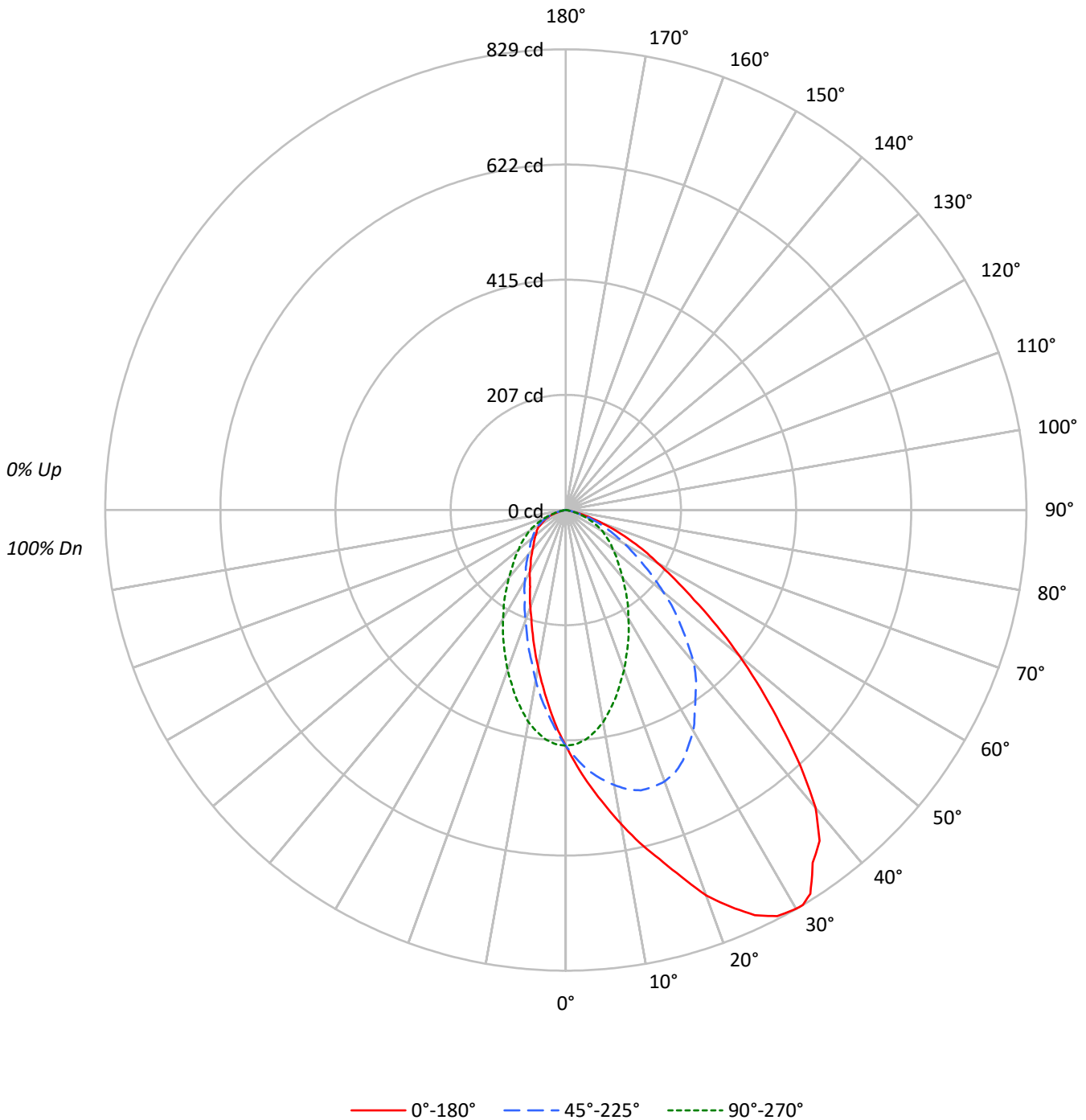
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 863.0 lumens
Efficiency: N/A
Efficacy: 31.5 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 0.87 / 1.18
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	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46	46	46	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41	41	41	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37	37	37	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	34	34	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31	31	31	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	93019	93019	93019	93019	93019
5°	109575	103632	91217	80960	77724
10°	127764	111933	86260	69337	63882
15°	147515	118570	79047	58457	52327
20°	172238	121297	71523	49214	43497
25°	194600	120442	64068	42123	36776
30°	209855	116094	57123	37246	32916
35°	207408	108951	51210	33488	29526
40°	200032	102478	45628	30171	26679
45°	169568	90490	41059	28127	25088
50°	138844	77780	37628	26780	24255
55°	107810	64686	35631	26264	24391
60°	83897	53768	33331	25787	22586
65°	66155	44518	29264	24179	21637
70°	45585	33018	23594	20452	18849
75°	22875	18724	16606	14572	12454
80°	3157	6188	9345	6188	3157
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 169568 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	4.6
10°-20°	110.5	12.8
20°-30°	162.9	18.9
30°-40°	182.6	21.2
40°-50°	160.5	18.6
50°-60°	114.9	13.3
60°-70°	68.0	7.9
70°-80°	22.8	2.6
80°-90°	1.1	0.1
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°	313.1	36.3
0°-40°	495.7	57.4
0°-60°	771.1	89.3
0°-90°	863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	863.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	424	424	424	424	424	
5°	498	471	414	368	353	50
15°	650	522	348	258	230	187
25°	804	498	265	174	152	370
35°	775	407	191	125	110	487
45°	547	292	132	91	81	423
55°	282	169	93	69	64	258
65°	128	86	56	47	42	127
75°	27	22	20	17	15	33
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°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2
2.5°	461.0	461.0	461.0	456.1	456.1	448.7	443.8	436.5	431.6	424.2	421.7
5°	497.8	497.8	492.9	488.0	480.6	470.8	458.5	446.3	431.6	419.3	414.4
7.5°	534.5	537.0	529.6	519.8	505.1	488.0	470.8	451.2	429.1	411.9	402.1
10°	573.8	573.8	564.0	549.3	527.2	502.7	475.7	448.7	421.7	397.2	387.4
12.5°	613.0	610.6	598.3	576.2	549.3	514.9	478.1	443.8	411.9	382.5	367.8
15°	649.8	649.8	632.6	605.7	566.4	522.3	478.1	434.0	397.2	362.9	348.2
17.5°	691.5	691.5	669.4	627.7	578.7	522.3	470.8	421.7	380.1	343.3	326.1
20°	738.1	735.6	703.7	647.3	583.6	519.8	461.0	407.0	360.4	321.2	306.5
22.5°	772.4	769.9	733.2	664.5	586.0	512.5	443.8	387.4	340.8	301.6	284.4
25°	804.3	799.4	757.7	671.9	581.1	497.8	426.7	365.4	321.2	282.0	264.8
27.5°	823.9	821.4	774.8	669.4	568.9	478.1	404.6	345.7	299.1	259.9	245.2
30°	828.8	831.2	774.8	657.1	549.3	458.5	382.5	323.7	277.1	242.8	225.6
31°	828.8	831.2	769.9	649.8	541.9	448.7	372.7	316.3	267.3	232.9	218.2
32.5°	819.0	814.1	762.6	637.5	524.7	431.6	360.4	304.1	255.0	220.7	208.4
35°	774.8	777.3	738.1	610.6	500.2	407.0	335.9	279.5	232.9	203.5	191.3
37.5°	750.3	750.3	679.2	573.8	473.2	385.0	306.5	252.6	213.3	186.4	174.1
40°	698.8	691.5	625.3	534.5	441.4	358.0	289.3	235.4	196.2	169.2	159.4
42.5°	625.3	617.9	566.4	500.2	399.7	323.7	274.6	208.4	176.5	154.5	144.7
45°	546.8	541.9	502.7	441.4	360.4	291.8	237.8	191.3	161.8	139.8	132.4
47.5°	475.7	468.3	438.9	392.3	326.1	262.4	206.0	171.6	144.7	127.5	122.6
50°	407.0	404.6	380.1	343.3	289.3	228.0	181.4	152.0	132.4	117.7	110.3
52.5°	343.3	338.4	326.1	296.7	252.6	198.6	159.4	134.9	117.7	107.9	103.0
55°	282.0	282.0	269.7	250.1	215.8	169.2	139.8	120.1	105.4	98.1	93.2
57.5°	232.9	232.9	223.1	210.9	179.0	144.7	122.6	105.4	95.6	88.3	83.4
60°	191.3	191.3	183.9	171.6	149.6	122.6	105.4	93.2	85.8	78.5	76.0
62.5°	159.4	156.9	152.0	139.8	122.6	103.0	90.7	80.9	73.6	68.7	66.2
65°	127.5	125.1	120.1	110.3	98.1	85.8	76.0	68.7	63.8	58.8	56.4
67.5°	98.1	98.1	93.2	85.8	76.0	68.7	61.3	56.4	51.5	49.0	46.6
70°	71.1	71.1	68.7	63.8	56.4	51.5	46.6	44.1	41.7	39.2	36.8
72.5°	49.0	49.0	46.6	44.1	39.2	36.8	31.9	31.9	29.4	29.4	27.0
75°	27.0	27.0	27.0	24.5	24.5	22.1	22.1	22.1	19.6	19.6	19.6
77.5°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
80°	2.5	2.5	2.5	2.5	4.9	4.9	4.9	4.9	7.4	7.4	7.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5
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°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2
2.5°	419.3	411.9	407.0	404.6	397.2	394.8	392.3	389.9	389.9	389.9
5°	409.5	397.2	385.0	377.6	367.8	362.9	358.0	355.5	353.1	353.1
7.5°	392.3	377.6	362.9	350.6	340.8	331.0	326.1	321.2	321.2	318.8
10°	375.2	355.5	338.4	321.2	311.4	299.1	294.2	289.3	286.9	286.9
12.5°	355.5	331.0	311.4	296.7	282.0	272.2	264.8	259.9	257.5	257.5
15°	333.5	309.0	286.9	272.2	257.5	245.2	237.8	232.9	230.5	230.5
17.5°	311.4	286.9	262.4	247.7	232.9	220.7	215.8	210.9	208.4	206.0
20°	291.8	262.4	242.8	223.1	210.9	201.1	193.7	188.8	186.4	186.4
22.5°	269.7	242.8	220.7	206.0	193.7	183.9	174.1	171.6	169.2	169.2
25°	247.7	223.1	203.5	188.8	174.1	166.7	159.4	154.5	154.5	152.0
27.5°	230.5	206.0	186.4	171.6	161.8	152.0	147.1	142.2	139.8	139.8
30°	210.9	188.8	171.6	159.4	147.1	139.8	134.9	130.0	130.0	130.0
31°	206.0	183.9	166.7	152.0	142.2	134.9	130.0	127.5	125.1	125.1
32.5°	193.7	174.1	156.9	144.7	134.9	127.5	122.6	120.1	120.1	117.7
35°	179.0	159.4	144.7	132.4	125.1	117.7	112.8	110.3	110.3	110.3
37.5°	164.3	147.1	132.4	122.6	115.2	107.9	105.4	100.5	100.5	100.5
40°	149.6	134.9	122.6	112.8	105.4	100.5	98.1	95.6	93.2	93.2
42.5°	137.3	122.6	112.8	105.4	98.1	93.2	90.7	88.3	88.3	85.8
45°	125.1	112.8	105.4	98.1	90.7	88.3	85.8	83.4	80.9	80.9
47.5°	115.2	105.4	95.6	90.7	85.8	80.9	78.5	78.5	76.0	76.0
50°	105.4	95.6	88.3	83.4	78.5	76.0	73.6	73.6	71.1	71.1
52.5°	98.1	88.3	83.4	78.5	73.6	71.1	68.7	68.7	66.2	66.2
55°	88.3	80.9	76.0	73.6	68.7	66.2	63.8	61.3	61.3	63.8
57.5°	80.9	76.0	71.1	68.7	63.8	61.3	58.8	58.8	56.4	58.8
60°	73.6	68.7	63.8	61.3	58.8	56.4	53.9	51.5	51.5	51.5
62.5°	66.2	61.3	58.8	53.9	51.5	51.5	49.0	49.0	49.0	46.6
65°	56.4	53.9	51.5	49.0	46.6	44.1	44.1	41.7	41.7	41.7
67.5°	46.6	44.1	41.7	41.7	39.2	36.8	36.8	36.8	36.8	34.3
70°	36.8	34.3	34.3	31.9	31.9	31.9	29.4	29.4	29.4	29.4
72.5°	27.0	27.0	24.5	24.5	24.5	24.5	22.1	22.1	22.1	22.1
75°	19.6	19.6	19.6	17.2	17.2	17.2	14.7	14.7	14.7	14.7
77.5°	12.3	12.3	12.3	12.3	12.3	9.8	9.8	9.8	9.8	9.8
80°	7.4	7.4	7.4	7.4	4.9	4.9	4.9	4.9	4.9	2.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	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)