

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: P3ART20R709835D010 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: P3ART20R709835D010 E3CLSWW1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

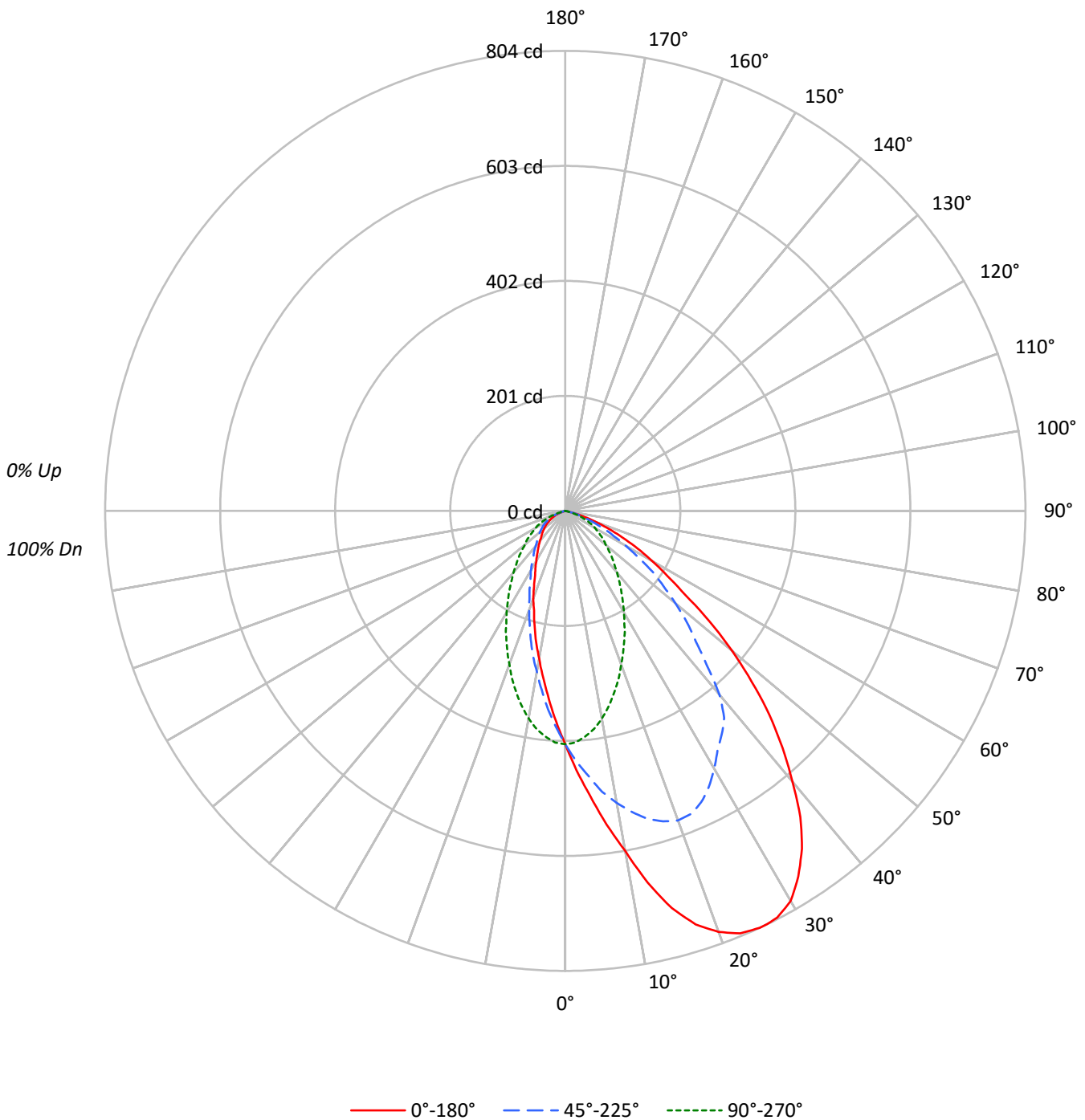
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 812.0 lumens
Efficiency: N/A
Efficacy: 29.6 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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	78				
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60				
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53				
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47				
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43				
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39				
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	89379	89379	89379	89379	89379
5°	110015	102399	87189	76557	72485
10°	134355	115384	82051	63593	58449
15°	163111	126516	74756	52804	47060
20°	182716	134365	66646	42984	38153
25°	194479	135951	59060	35663	30099
30°	199423	131792	51907	30334	25650
35°	192979	127609	45615	25886	22192
40°	176674	119996	40218	23072	19780
45°	156419	99979	35725	21429	17862
50°	129633	85626	31419	19650	16511
55°	97717	71300	29055	18504	14986
60°	76748	53548	26270	17192	13113
65°	57334	39434	22726	14321	10740
70°	36929	25132	16221	10322	5898
75°	15589	13640	7795	3897	1949
80°	2904	2904	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 156419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	4.8
10°-20°	111.3	13.7
20°-30°	162.7	20.0
30°-40°	177.3	21.8
40°-50°	153.4	18.9
50°-60°	102.8	12.7
60°-70°	53.1	6.5
70°-80°	12.5	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°	312.7	38.5
0°-40°	490.0	60.3
0°-60°	746.2	91.9
0°-90°	812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	812.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	408	408	408	408	408	
5°	500	465	396	348	329	51
15°	718	557	329	233	207	204
25°	804	562	244	147	124	369
35°	721	477	170	97	83	446
45°	504	322	115	69	58	386
55°	256	186	76	48	39	237
65°	110	76	44	28	21	112
75°	18	16	9	5	2	24
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°	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6
2.5°	453.7	451.4	451.4	446.8	442.2	437.6	430.7	423.8	416.9	409.9	405.3
5°	499.8	502.1	499.8	490.5	479.0	465.2	451.4	435.3	419.2	405.3	396.1
7.5°	552.7	552.7	545.8	534.3	518.2	495.2	472.1	444.5	419.2	396.1	384.6
10°	603.4	603.4	591.9	573.5	548.1	518.2	485.9	449.1	414.5	382.3	368.5
12.5°	665.6	663.3	649.5	619.5	582.7	538.9	495.2	449.1	407.6	368.5	350.1
15°	718.5	716.2	697.8	661.0	612.6	557.3	497.5	444.5	393.8	350.1	329.3
17.5°	757.7	753.1	732.4	693.2	637.9	568.9	499.8	435.3	377.7	329.3	308.6
20°	783.0	780.7	757.7	711.6	651.8	575.8	497.5	423.8	361.6	308.6	285.6
22.5°	799.2	794.6	771.5	720.9	651.8	573.5	488.2	407.6	340.9	287.9	264.9
25°	803.8	801.5	773.8	718.5	644.9	561.9	474.4	391.5	320.1	267.2	244.1
26°	803.8	801.5	773.8	716.2	640.2	555.0	467.5	384.6	313.2	257.9	237.2
27.5°	801.5	799.2	769.2	709.3	631.0	543.5	453.7	370.8	299.4	246.4	223.4
30°	787.6	783.0	753.1	693.2	610.3	520.5	430.7	350.1	278.7	225.7	205.0
32.5°	757.7	753.1	720.9	665.6	587.3	495.2	405.3	327.0	257.9	205.0	186.5
35°	720.9	716.2	684.0	631.0	555.0	476.7	377.7	301.7	234.9	188.8	170.4
37.5°	674.8	667.9	640.2	585.0	515.9	456.0	354.7	276.4	214.2	170.4	154.3
40°	617.2	614.9	589.6	538.9	469.8	419.2	340.9	276.4	195.8	154.3	140.5
42.5°	561.9	557.3	534.3	490.5	428.4	366.2	299.4	264.9	181.9	138.2	126.7
45°	504.4	499.8	479.0	442.2	384.6	322.4	322.4	228.0	156.6	126.7	115.2
47.5°	442.2	437.6	421.5	393.8	343.2	287.9	234.9	186.5	142.8	112.8	103.6
50°	380.0	382.3	368.5	340.9	301.7	251.0	202.7	156.6	122.1	101.3	92.1
52.5°	317.8	315.5	306.3	287.9	260.2	216.5	172.7	133.6	105.9	89.8	85.2
55°	255.6	257.9	253.3	241.8	218.8	186.5	145.1	115.2	94.4	80.6	76.0
57.5°	211.9	214.2	205.0	198.1	179.6	152.0	119.8	96.7	80.6	71.4	66.8
60°	175.0	177.3	170.4	161.2	147.4	122.1	96.7	80.6	71.4	64.5	59.9
62.5°	142.8	140.5	135.9	126.7	115.2	96.7	78.3	66.8	59.9	55.3	53.0
65°	110.5	110.5	105.9	99.0	89.8	76.0	62.2	55.3	50.7	46.1	43.8
67.5°	82.9	82.9	78.3	73.7	64.5	55.3	48.4	43.8	41.5	36.8	34.5
70°	57.6	57.6	55.3	53.0	46.1	39.2	36.8	32.2	29.9	27.6	25.3
72.5°	36.8	36.8	36.8	32.2	29.9	25.3	25.3	23.0	20.7	18.4	18.4
75°	18.4	20.7	18.4	18.4	16.1	16.1	13.8	13.8	11.5	11.5	9.2
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	4.6	4.6	4.6	4.6	4.6
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°	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6	407.6
2.5°	400.7	393.8	389.2	382.3	377.7	373.1	370.8	368.5	368.5	368.5
5°	389.2	377.7	366.2	354.7	347.8	340.9	333.9	331.6	329.3	329.3
7.5°	375.4	357.0	340.9	327.0	315.5	308.6	301.7	297.1	294.8	294.8
10°	357.0	333.9	315.5	297.1	285.6	276.4	271.8	264.9	264.9	262.5
12.5°	336.2	308.6	287.9	271.8	260.2	248.7	241.8	237.2	234.9	234.9
15°	313.2	285.6	262.5	244.1	232.6	221.1	214.2	209.6	207.3	207.3
17.5°	290.2	260.2	237.2	218.8	207.3	195.8	188.8	184.2	184.2	181.9
20°	267.2	237.2	214.2	195.8	184.2	175.0	168.1	163.5	161.2	163.5
22.5°	246.4	216.5	193.5	177.3	163.5	154.3	147.4	145.1	142.8	142.8
25°	223.4	195.8	175.0	158.9	147.4	138.2	131.3	129.0	126.7	124.4
26°	216.5	188.8	168.1	152.0	140.5	131.3	126.7	122.1	119.8	119.8
27.5°	207.3	177.3	158.9	142.8	131.3	124.4	117.5	115.2	112.8	112.8
30°	186.5	161.2	142.8	129.0	119.8	110.5	105.9	103.6	101.3	101.3
32.5°	170.4	145.1	129.0	117.5	108.2	101.3	96.7	92.1	92.1	92.1
35°	154.3	131.3	117.5	105.9	96.7	89.8	87.5	85.2	82.9	82.9
37.5°	140.5	119.8	105.9	96.7	89.8	82.9	78.3	76.0	76.0	76.0
40°	126.7	110.5	96.7	87.5	80.6	76.0	71.4	69.1	69.1	69.1
42.5°	115.2	99.0	89.8	80.6	73.7	69.1	66.8	64.5	62.2	62.2
45°	105.9	92.1	80.6	73.7	69.1	64.5	59.9	57.6	57.6	57.6
47.5°	94.4	85.2	73.7	66.8	62.2	57.6	55.3	53.0	53.0	53.0
50°	87.5	78.3	69.1	62.2	57.6	53.0	50.7	48.4	48.4	48.4
52.5°	78.3	71.4	64.5	57.6	53.0	48.4	46.1	43.8	43.8	43.8
55°	71.4	64.5	57.6	53.0	48.4	43.8	41.5	39.2	39.2	39.2
57.5°	64.5	57.6	53.0	48.4	43.8	41.5	36.8	36.8	34.5	34.5
60°	57.6	50.7	46.1	43.8	39.2	36.8	32.2	29.9	29.9	29.9
62.5°	48.4	46.1	41.5	36.8	32.2	29.9	27.6	25.3	25.3	25.3
65°	41.5	39.2	34.5	29.9	27.6	25.3	23.0	20.7	20.7	20.7
67.5°	34.5	29.9	27.6	25.3	23.0	20.7	18.4	16.1	13.8	16.1
70°	25.3	23.0	20.7	18.4	16.1	13.8	11.5	11.5	9.2	9.2
72.5°	16.1	13.8	13.8	11.5	9.2	9.2	6.9	6.9	4.6	4.6
75°	9.2	9.2	6.9	6.9	4.6	4.6	2.3	2.3	2.3	2.3
77.5°	4.6	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)