

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: P3ART20R709050D010 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: P3ART20R709050D010 E3LCWW1WMH
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3LCWW1WMH TRIM
Light Source: -
Ballast/Driver: -

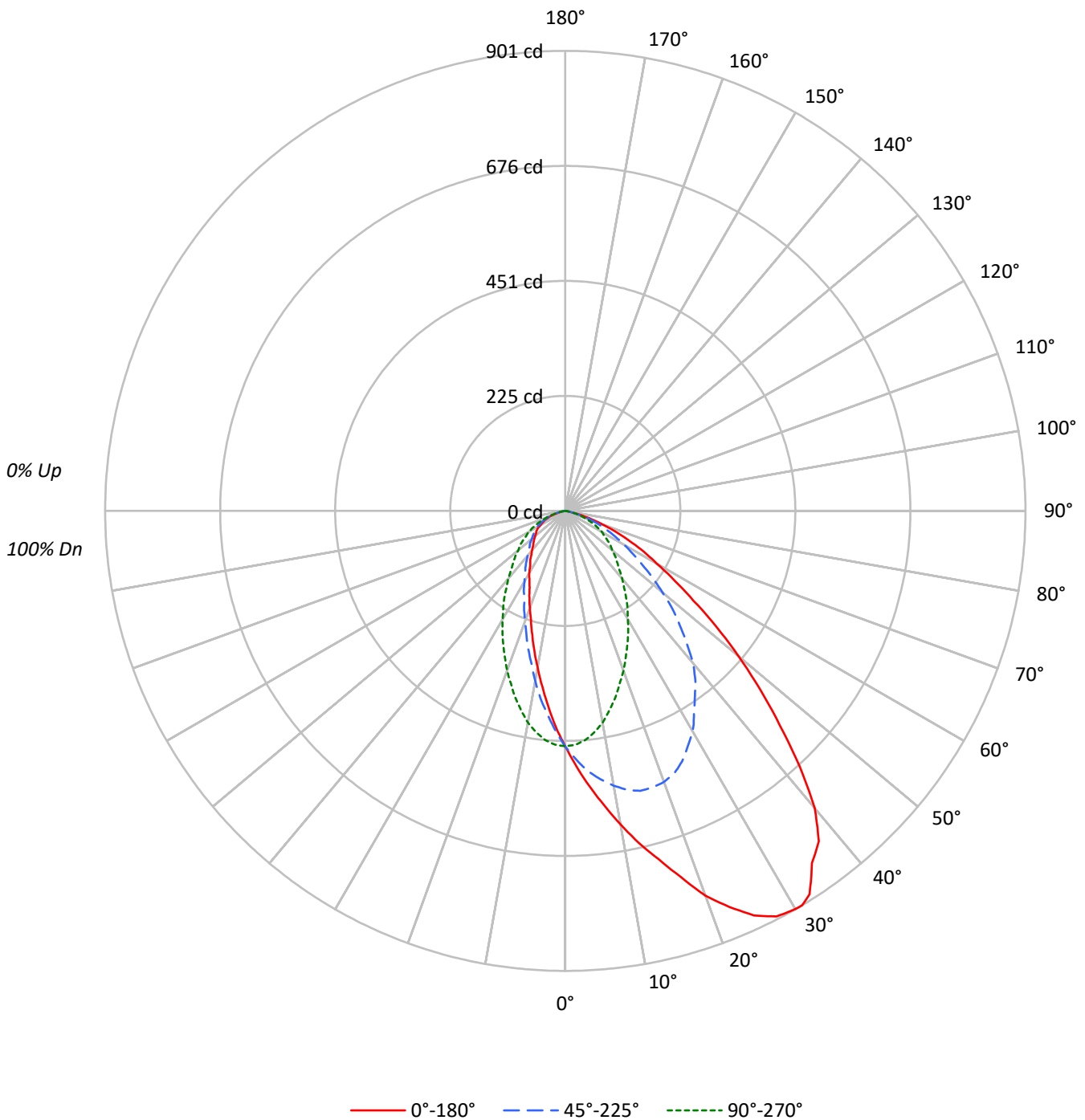
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 938.0 lumens
Efficiency: N/A
Efficacy: 32.6 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): 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	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76				76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66				66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58				58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51				51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46				46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41				41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37				37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34				34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31				31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	101110	101110	101110	101110	101110
5°	119084	112635	99141	88003	84481
10°	138853	121663	93764	75372	69426
15°	160341	128877	85903	63519	56868
20°	187196	131845	77730	53485	47254
25°	211512	130895	69633	45777	39970
30°	228086	126197	62086	40487	35778
35°	225450	118427	55653	36379	32096
40°	217436	111380	49579	32804	28997
45°	184298	98336	44625	30577	27259
50°	150920	84569	40903	29099	26370
55°	117176	70306	38727	28520	26494
60°	91177	58460	36225	28068	24559
65°	71914	48410	31806	26254	23504
70°	49560	35903	25645	22183	20516
75°	24824	20334	18046	15843	13556
80°	3410	6693	10102	6693	3410
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 184298 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	4.6
10°-20°	120.1	12.8
20°-30°	177.0	18.9
30°-40°	198.5	21.2
40°-50°	174.5	18.6
50°-60°	124.9	13.3
60°-70°	74.0	7.9
70°-80°	24.8	2.6
80°-90°	1.2	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°	340.3	36.3
0°-40°	538.7	57.4
0°-60°	838.1	89.3
0°-90°	938.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	461	461	461	461	461	
5°	541	512	450	400	384	54
15°	706	568	378	280	250	204
25°	874	541	288	189	165	402
35°	842	442	208	136	120	529
45°	594	317	144	99	88	460
55°	306	184	101	75	69	280
65°	139	93	61	51	45	138
75°	29	24	21	19	16	36
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°	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1
2.5°	501.0	501.0	501.0	495.7	495.7	487.7	482.4	474.4	469.1	461.1	458.4
5°	541.0	541.0	535.7	530.4	522.4	511.7	498.4	485.1	469.1	455.7	450.4
7.5°	581.0	583.7	575.7	565.0	549.0	530.4	511.7	490.4	466.4	447.7	437.1
10°	623.6	623.6	613.0	597.0	573.0	546.4	517.0	487.7	458.4	431.7	421.1
12.5°	666.3	663.6	650.3	626.3	597.0	559.7	519.7	482.4	447.7	415.8	399.8
15°	706.3	706.3	687.6	658.3	615.6	567.7	519.7	471.7	431.7	394.4	378.4
17.5°	751.6	751.6	727.6	682.3	629.0	567.7	511.7	458.4	413.1	373.1	354.5
20°	802.2	799.5	764.9	703.6	634.3	565.0	501.0	442.4	391.8	349.1	333.1
22.5°	839.5	836.8	796.9	722.2	637.0	557.0	482.4	421.1	370.5	327.8	309.2
25°	874.2	868.8	823.5	730.2	631.6	541.0	463.7	397.1	349.1	306.5	287.8
27.5°	895.5	892.8	842.2	727.6	618.3	519.7	439.7	375.8	325.1	282.5	266.5
30°	900.8	903.5	842.2	714.3	597.0	498.4	415.8	351.8	301.2	263.8	245.2
31°	900.8	903.5	836.8	706.3	589.0	487.7	405.1	343.8	290.5	253.2	237.2
32.5°	890.2	884.8	828.9	692.9	570.3	469.1	391.8	330.5	277.2	239.9	226.5
35°	842.2	844.8	802.2	663.6	543.7	442.4	365.1	303.8	253.2	221.2	207.9
37.5°	815.5	815.5	738.2	623.6	514.4	418.4	333.1	274.5	231.9	202.5	189.2
40°	759.6	751.6	679.6	581.0	479.7	389.1	314.5	255.9	213.2	183.9	173.2
42.5°	679.6	671.6	615.6	543.7	434.4	351.8	298.5	226.5	191.9	167.9	157.2
45°	594.3	589.0	546.4	479.7	391.8	317.1	258.5	207.9	175.9	151.9	143.9
47.5°	517.0	509.0	477.1	426.4	354.5	285.2	223.9	186.6	157.2	138.6	133.3
50°	442.4	439.7	413.1	373.1	314.5	247.9	197.2	165.2	143.9	127.9	119.9
52.5°	373.1	367.8	354.5	322.5	274.5	215.9	173.2	146.6	127.9	117.3	111.9
55°	306.5	306.5	293.2	271.8	234.5	183.9	151.9	130.6	114.6	106.6	101.3
57.5°	253.2	253.2	242.5	229.2	194.6	157.2	133.3	114.6	103.9	95.9	90.6
60°	207.9	207.9	199.9	186.6	162.6	133.3	114.6	101.3	93.3	85.3	82.6
62.5°	173.2	170.6	165.2	151.9	133.3	111.9	98.6	87.9	80.0	74.6	72.0
65°	138.6	135.9	130.6	119.9	106.6	93.3	82.6	74.6	69.3	64.0	61.3
67.5°	106.6	106.6	101.3	93.3	82.6	74.6	66.6	61.3	56.0	53.3	50.6
70°	77.3	77.3	74.6	69.3	61.3	56.0	50.6	48.0	45.3	42.6	40.0
72.5°	53.3	53.3	50.6	48.0	42.6	40.0	34.6	34.6	32.0	32.0	29.3
75°	29.3	29.3	29.3	26.7	26.7	24.0	24.0	24.0	21.3	21.3	21.3
77.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
80°	2.7	2.7	2.7	2.7	5.3	5.3	5.3	5.3	8.0	8.0	8.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7
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°	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1	461.1
2.5°	455.7	447.7	442.4	439.7	431.7	429.1	426.4	423.8	423.8	423.8
5°	445.1	431.7	418.4	410.4	399.8	394.4	389.1	386.4	383.8	383.8
7.5°	426.4	410.4	394.4	381.1	370.5	359.8	354.5	349.1	349.1	346.5
10°	407.8	386.4	367.8	349.1	338.5	325.1	319.8	314.5	311.8	311.8
12.5°	386.4	359.8	338.5	322.5	306.5	295.8	287.8	282.5	279.8	279.8
15°	362.5	335.8	311.8	295.8	279.8	266.5	258.5	253.2	250.5	250.5
17.5°	338.5	311.8	285.2	269.2	253.2	239.9	234.5	229.2	226.5	223.9
20°	317.1	285.2	263.8	242.5	229.2	218.5	210.5	205.2	202.5	202.5
22.5°	293.2	263.8	239.9	223.9	210.5	199.9	189.2	186.6	183.9	183.9
25°	269.2	242.5	221.2	205.2	189.2	181.2	173.2	167.9	167.9	165.2
27.5°	250.5	223.9	202.5	186.6	175.9	165.2	159.9	154.6	151.9	151.9
30°	229.2	205.2	186.6	173.2	159.9	151.9	146.6	141.3	141.3	141.3
31°	223.9	199.9	181.2	165.2	154.6	146.6	141.3	138.6	135.9	135.9
32.5°	210.5	189.2	170.6	157.2	146.6	138.6	133.3	130.6	130.6	127.9
35°	194.6	173.2	157.2	143.9	135.9	127.9	122.6	119.9	119.9	119.9
37.5°	178.6	159.9	143.9	133.3	125.3	117.3	114.6	109.3	109.3	109.3
40°	162.6	146.6	133.3	122.6	114.6	109.3	106.6	103.9	101.3	101.3
42.5°	149.2	133.3	122.6	114.6	106.6	101.3	98.6	95.9	95.9	93.3
45°	135.9	122.6	114.6	106.6	98.6	95.9	93.3	90.6	87.9	87.9
47.5°	125.3	114.6	103.9	98.6	93.3	87.9	85.3	85.3	82.6	82.6
50°	114.6	103.9	95.9	90.6	85.3	82.6	80.0	80.0	77.3	77.3
52.5°	106.6	95.9	90.6	85.3	80.0	77.3	74.6	74.6	72.0	72.0
55°	95.9	87.9	82.6	80.0	74.6	72.0	69.3	66.6	66.6	69.3
57.5°	87.9	82.6	77.3	74.6	69.3	66.6	64.0	64.0	61.3	64.0
60°	80.0	74.6	69.3	66.6	64.0	61.3	58.6	56.0	56.0	56.0
62.5°	72.0	66.6	64.0	58.6	56.0	56.0	53.3	53.3	53.3	50.6
65°	61.3	58.6	56.0	53.3	50.6	48.0	48.0	45.3	45.3	45.3
67.5°	50.6	48.0	45.3	45.3	42.6	40.0	40.0	40.0	40.0	37.3
70°	40.0	37.3	37.3	34.6	34.6	34.6	32.0	32.0	32.0	32.0
72.5°	29.3	29.3	26.7	26.7	26.7	26.7	24.0	24.0	24.0	24.0
75°	21.3	21.3	21.3	18.7	18.7	18.7	16.0	16.0	16.0	16.0
77.5°	13.3	13.3	13.3	13.3	13.3	10.7	10.7	10.7	10.7	10.7
80°	8.0	8.0	8.0	8.0	5.3	5.3	5.3	5.3	5.3	2.7
82.5°	2.7	2.7	2.7	2.7	2.7	2.7	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)