

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: P3ART20R709040D010 E3LSWW1WMH

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: P3ART20R709040D010 E3LSWW1WMH
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3LSWW1WMH TRIM
Light Source: -
Ballast/Driver: -

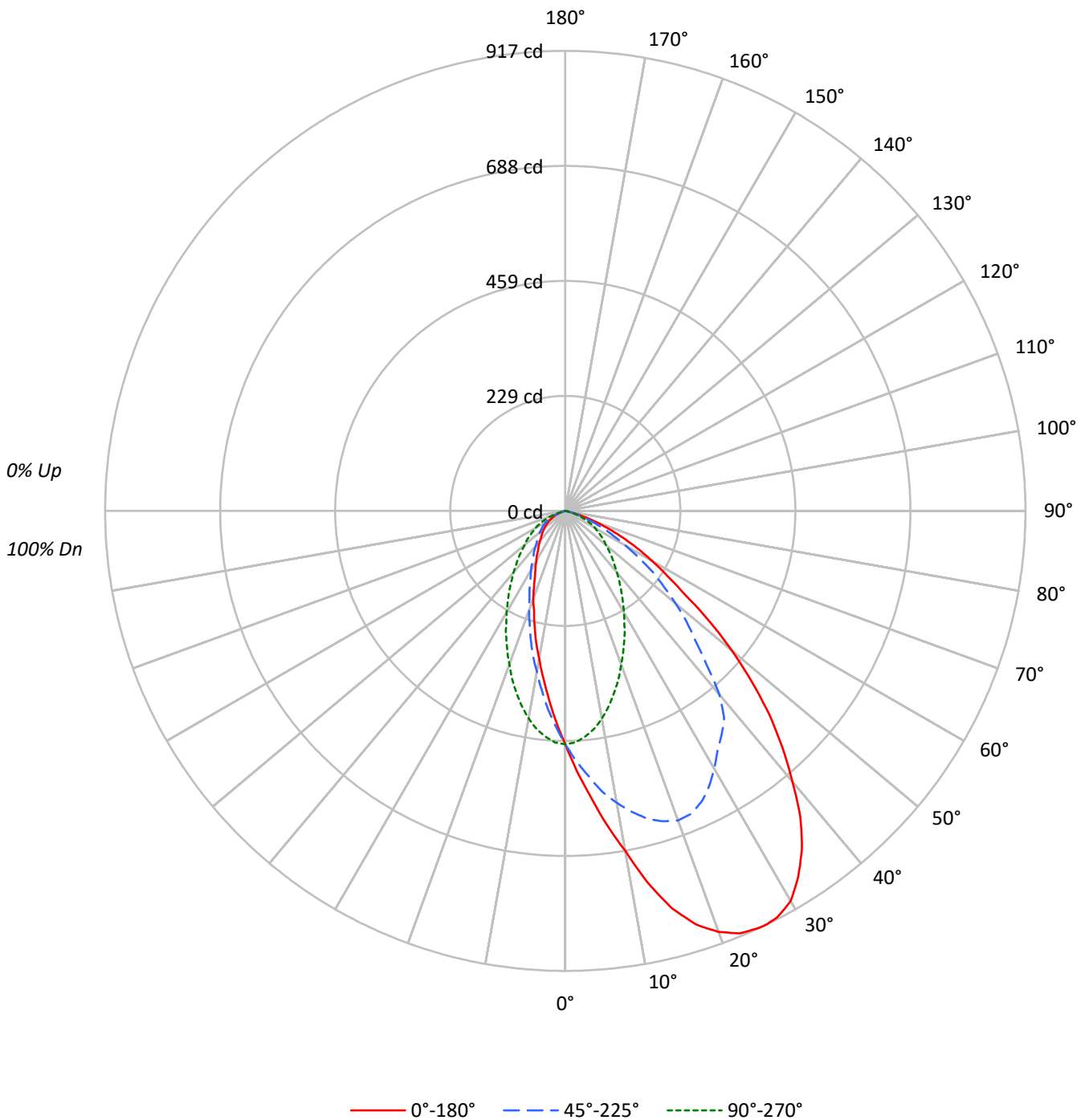
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 926.0 lumens
Efficiency: N/A
Efficacy: 32.2 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): 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		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°	101944	101944	101944	101944	101944
5°	125445	116773	99427	87299	82676
10°	153215	131572	93563	72521	66665
15°	186017	144291	85267	60227	53667
20°	208385	153220	76003	49028	43520
25°	221771	155041	67359	40672	34308
30°	227427	150302	59174	34588	29270
35°	220070	145544	52039	29526	25297
40°	201492	136828	45857	26306	22557
45°	178375	114027	40717	24437	20374
50°	147850	97668	35854	22413	18831
55°	111442	81316	33146	21103	17051
60°	87537	61048	29954	19560	14955
65°	65429	44985	25891	16344	12245
70°	42122	28595	18529	11797	6732
75°	17792	15589	8896	4490	2203
80°	3283	3283	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 178375 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	4.8
10°-20°	126.9	13.7
20°-30°	185.6	20.0
30°-40°	202.2	21.8
40°-50°	175.0	18.9
50°-60°	117.2	12.7
60°-70°	60.5	6.5
70°-80°	14.3	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°	356.6	38.5
0°-40°	558.8	60.3
0°-60°	851.0	91.9
0°-90°	926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	465	465	465	465	465	
5°	570	530	452	397	376	58
15°	819	636	376	265	236	232
25°	917	641	278	168	142	421
35°	822	544	194	110	94	509
45°	575	368	131	79	66	440
55°	292	213	87	55	45	270
65°	126	87	50	32	24	127
75°	21	18	10	5	3	28
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°	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9
2.5°	517.4	514.8	514.8	509.5	504.3	499.0	491.1	483.3	475.4	467.5	462.2
5°	569.9	572.6	569.9	559.4	546.3	530.5	514.8	496.4	478.0	462.2	451.7
7.5°	630.3	630.3	622.5	609.3	590.9	564.7	538.4	506.9	478.0	451.7	438.6
10°	688.1	688.1	675.0	654.0	625.1	590.9	554.2	512.1	472.7	436.0	420.2
12.5°	759.0	756.4	740.6	706.5	664.5	614.6	564.7	512.1	464.9	420.2	399.2
15°	819.4	816.8	795.8	753.8	698.6	635.6	567.3	506.9	449.1	399.2	375.6
17.5°	864.1	858.8	835.2	790.5	727.5	648.7	569.9	496.4	430.7	375.6	351.9
20°	893.0	890.3	864.1	811.6	743.3	656.6	567.3	483.3	412.3	351.9	325.7
22.5°	911.4	906.1	879.8	822.1	743.3	654.0	556.8	464.9	388.7	328.3	302.0
25°	916.6	914.0	882.5	819.4	735.4	640.8	541.0	446.5	365.1	304.7	278.4
26°	916.6	914.0	882.5	816.8	730.1	633.0	533.2	438.6	357.2	294.2	270.5
27.5°	914.0	911.4	877.2	808.9	719.6	619.8	517.4	422.8	341.4	281.0	254.8
30°	898.2	893.0	858.8	790.5	696.0	593.6	491.1	399.2	317.8	257.4	233.7
32.5°	864.1	858.8	822.1	759.0	669.7	564.7	462.2	372.9	294.2	233.7	212.7
35°	822.1	816.8	780.0	719.6	633.0	543.7	430.7	344.1	267.9	215.4	194.4
37.5°	769.5	761.6	730.1	667.1	588.3	520.0	404.5	315.2	244.3	194.4	176.0
40°	703.9	701.2	672.4	614.6	535.8	478.0	388.7	315.2	223.2	176.0	160.2
42.5°	640.8	635.6	609.3	559.4	488.5	417.6	341.4	302.0	207.5	157.6	144.5
45°	575.2	569.9	546.3	504.3	438.6	367.7	367.7	260.0	178.6	144.5	131.3
47.5°	504.3	499.0	480.6	449.1	391.3	328.3	267.9	212.7	162.8	128.7	118.2
50°	433.4	436.0	420.2	388.7	344.1	286.3	231.1	178.6	139.2	115.6	105.1
52.5°	362.4	359.8	349.3	328.3	296.8	246.9	197.0	152.3	120.8	102.4	97.2
55°	291.5	294.2	288.9	275.8	249.5	212.7	165.5	131.3	107.7	91.9	86.7
57.5°	241.6	244.3	233.7	225.9	204.9	173.3	136.6	110.3	91.9	81.4	76.2
60°	199.6	202.2	194.4	183.8	168.1	139.2	110.3	91.9	81.4	73.5	68.3
62.5°	162.8	160.2	155.0	144.5	131.3	110.3	89.3	76.2	68.3	63.0	60.4
65°	126.1	126.1	120.8	112.9	102.4	86.7	70.9	63.0	57.8	52.5	49.9
67.5°	94.5	94.5	89.3	84.0	73.5	63.0	55.2	49.9	47.3	42.0	39.4
70°	65.7	65.7	63.0	60.4	52.5	44.6	42.0	36.8	34.1	31.5	28.9
72.5°	42.0	42.0	42.0	36.8	34.1	28.9	28.9	26.3	23.6	21.0	21.0
75°	21.0	23.6	21.0	21.0	18.4	18.4	15.8	15.8	13.1	13.1	10.5
77.5°	7.9	7.9	7.9	7.9	7.9	7.9	5.3	5.3	5.3	5.3	5.3
80°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	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°	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9	464.9
2.5°	457.0	449.1	443.9	436.0	430.7	425.5	422.8	420.2	420.2	420.2
5°	443.9	430.7	417.6	404.5	396.6	388.7	380.8	378.2	375.6	375.6
7.5°	428.1	407.1	388.7	372.9	359.8	351.9	344.1	338.8	336.2	336.2
10°	407.1	380.8	359.8	338.8	325.7	315.2	309.9	302.0	302.0	299.4
12.5°	383.5	351.9	328.3	309.9	296.8	283.6	275.8	270.5	267.9	267.9
15°	357.2	325.7	299.4	278.4	265.3	252.1	244.3	239.0	236.4	236.4
17.5°	330.9	296.8	270.5	249.5	236.4	223.2	215.4	210.1	210.1	207.5
20°	304.7	270.5	244.3	223.2	210.1	199.6	191.7	186.5	183.8	186.5
22.5°	281.0	246.9	220.6	202.2	186.5	176.0	168.1	165.5	162.8	162.8
25°	254.8	223.2	199.6	181.2	168.1	157.6	149.7	147.1	144.5	141.8
26°	246.9	215.4	191.7	173.3	160.2	149.7	144.5	139.2	136.6	136.6
27.5°	236.4	202.2	181.2	162.8	149.7	141.8	133.9	131.3	128.7	128.7
30°	212.7	183.8	162.8	147.1	136.6	126.1	120.8	118.2	115.6	115.6
32.5°	194.4	165.5	147.1	133.9	123.4	115.6	110.3	105.1	105.1	105.1
35°	176.0	149.7	133.9	120.8	110.3	102.4	99.8	97.2	94.5	94.5
37.5°	160.2	136.6	120.8	110.3	102.4	94.5	89.3	86.7	86.7	86.7
40°	144.5	126.1	110.3	99.8	91.9	86.7	81.4	78.8	78.8	78.8
42.5°	131.3	112.9	102.4	91.9	84.0	78.8	76.2	73.5	70.9	70.9
45°	120.8	105.1	91.9	84.0	78.8	73.5	68.3	65.7	65.7	65.7
47.5°	107.7	97.2	84.0	76.2	70.9	65.7	63.0	60.4	60.4	60.4
50°	99.8	89.3	78.8	70.9	65.7	60.4	57.8	55.2	55.2	55.2
52.5°	89.3	81.4	73.5	65.7	60.4	55.2	52.5	49.9	49.9	49.9
55°	81.4	73.5	65.7	60.4	55.2	49.9	47.3	44.6	44.6	44.6
57.5°	73.5	65.7	60.4	55.2	49.9	47.3	42.0	42.0	39.4	39.4
60°	65.7	57.8	52.5	49.9	44.6	42.0	36.8	34.1	34.1	34.1
62.5°	55.2	52.5	47.3	42.0	36.8	34.1	31.5	28.9	28.9	28.9
65°	47.3	44.6	39.4	34.1	31.5	28.9	26.3	23.6	23.6	23.6
67.5°	39.4	34.1	31.5	28.9	26.3	23.6	21.0	18.4	15.8	18.4
70°	28.9	26.3	23.6	21.0	18.4	15.8	13.1	13.1	10.5	10.5
72.5°	18.4	15.8	15.8	13.1	10.5	10.5	7.9	7.9	5.3	5.3
75°	10.5	10.5	7.9	7.9	5.3	5.3	2.6	2.6	2.6	2.6
77.5°	5.3	2.6	2.6	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)