

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 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: P3ART20R709040D010 E3LCWW1WMH
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3LCWW1WMH TRIM
Light Source: -
Ballast/Driver: -

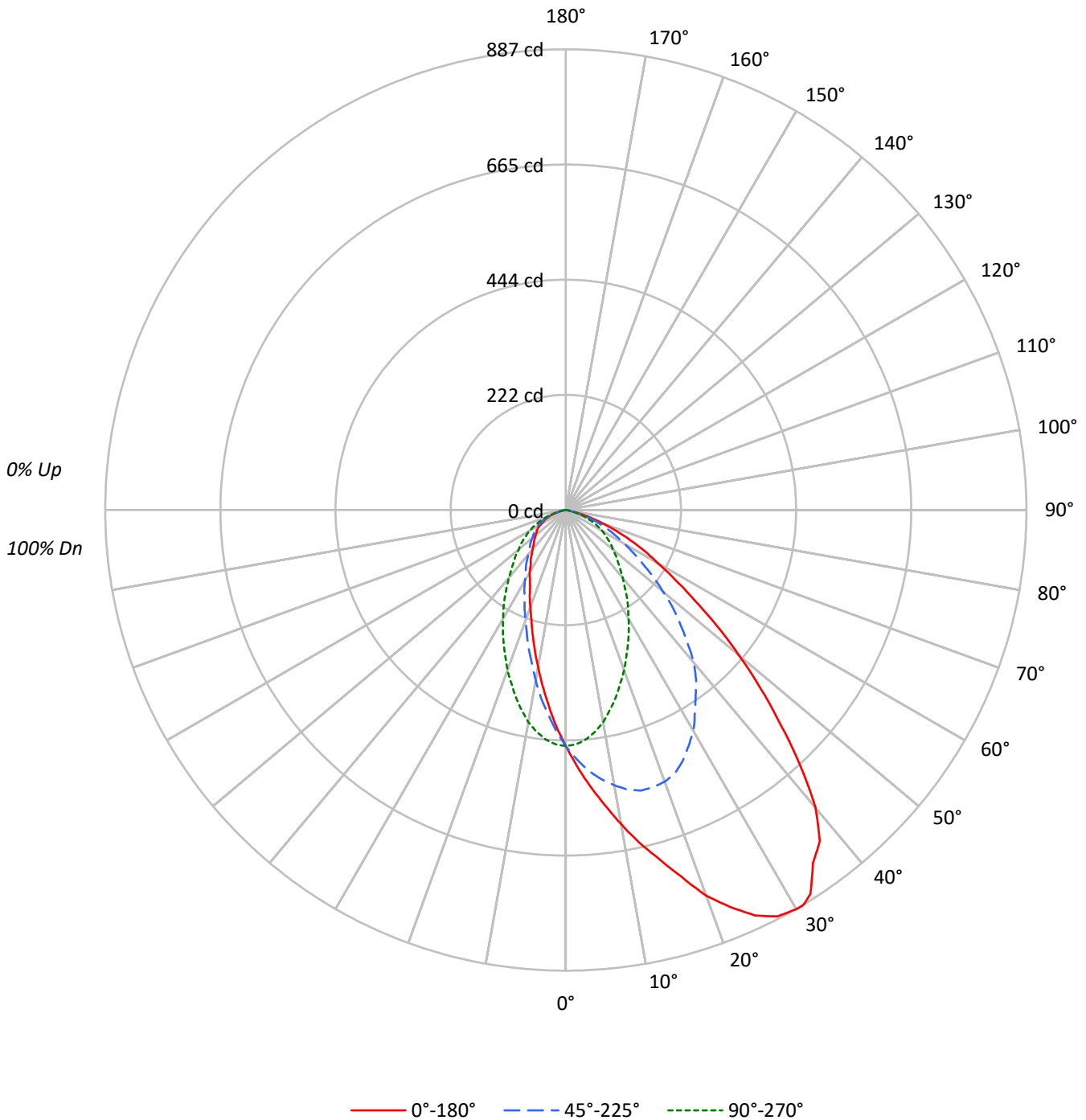
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 924.0 lumens
Efficiency: N/A
Efficacy: 32.1 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

TEST NUMBER: P#
CATALOG NUMBER: P3ART20R709040D010 E3LCWW1WMH

Luminous Intensity Polar Plot





TEST NUMBER: P#
 CATALOG NUMBER: P3ART20R709040D010 E3LCWW1WMH

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°	99597	99597	99597	99597	99597
5°	117301	110962	97666	86683	83205
10°	136782	119837	92361	74236	68402
15°	157935	126947	84632	62588	56028
20°	184396	129885	76587	52691	46554
25°	208343	128935	68593	45099	39389
30°	224693	124298	61149	39880	35221
35°	222078	116660	54823	35844	31614
40°	214173	109720	48834	32318	28568
45°	181569	96878	43974	30112	26856
50°	148669	83306	40289	28656	25961
55°	115418	69235	38154	28099	26111
60°	89817	57583	35699	27629	24165
65°	70825	47683	31339	25891	23141
70°	48790	35326	25261	21863	20196
75°	24485	19995	17792	15589	13386
80°	3283	6693	9976	6693	3283
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 181569 cd/sqm



TEST NUMBER: P#

CATALOG NUMBER: P3ART20R709040D010 E3LCWW1WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	4.6
10°-20°	118.3	12.8
20°-30°	174.4	18.9
30°-40°	195.5	21.2
40°-50°	171.9	18.6
50°-60°	123.0	13.3
60°-70°	72.8	7.9
70°-80°	24.4	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°	335.2	36.3
0°-40°	530.7	57.4
0°-60°	825.6	89.3
0°-90°	924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	454	454	454	454	454	
5°	533	504	444	394	378	53
15°	696	559	373	276	247	201
25°	861	533	284	186	163	396
35°	830	436	205	134	118	521
45°	586	312	142	97	87	453
55°	302	181	100	74	68	276
65°	136	92	60	50	45	136
75°	29	24	21	18	16	35
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P#
 CATALOG NUMBER: P3ART20R709040D010 E3LCWW1WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2
2.5°	493.6	493.6	493.6	488.3	488.3	480.4	475.2	467.3	462.1	454.2	451.6
5°	532.9	532.9	527.7	522.4	514.6	504.1	490.9	477.8	462.1	448.9	443.7
7.5°	572.3	575.0	567.1	556.6	540.8	522.4	504.1	483.1	459.4	441.1	430.6
10°	614.3	614.3	603.8	588.1	564.4	538.2	509.3	480.4	451.6	425.3	414.8
12.5°	656.3	653.7	640.6	617.0	588.1	551.3	511.9	475.2	441.1	409.6	393.8
15°	695.7	695.7	677.3	648.5	606.5	559.2	511.9	464.7	425.3	388.6	372.8
17.5°	740.3	740.3	716.7	672.1	619.6	559.2	504.1	451.6	406.9	367.5	349.2
20°	790.2	787.6	753.5	693.1	624.8	556.6	493.6	435.8	385.9	343.9	328.2
22.5°	827.0	824.4	785.0	711.5	627.5	548.7	475.2	414.8	364.9	322.9	304.5
25°	861.1	855.9	811.2	719.3	622.2	532.9	456.8	391.2	343.9	301.9	283.5
27.5°	882.1	879.5	829.6	716.7	609.1	511.9	433.2	370.2	320.3	278.3	262.5
30°	887.4	890.0	829.6	703.6	588.1	490.9	409.6	346.5	296.7	259.9	241.5
31°	887.4	890.0	824.4	695.7	580.2	480.4	399.1	338.7	286.2	249.4	233.7
32.5°	876.9	871.6	816.5	682.6	561.8	462.1	385.9	325.5	273.0	236.3	223.2
35°	829.6	832.2	790.2	653.7	535.6	435.8	359.7	299.3	249.4	217.9	204.8
37.5°	803.4	803.4	727.2	614.3	506.7	412.2	328.2	270.4	228.4	199.5	186.4
40°	748.2	740.3	669.5	572.3	472.6	383.3	309.8	252.0	210.0	181.1	170.6
42.5°	669.5	661.6	606.5	535.6	427.9	346.5	294.0	223.2	189.0	165.4	154.9
45°	585.5	580.2	538.2	472.6	385.9	312.4	254.7	204.8	173.3	149.6	141.8
47.5°	509.3	501.4	469.9	420.1	349.2	280.9	220.5	183.8	154.9	136.5	131.3
50°	435.8	433.2	406.9	367.5	309.8	244.2	194.3	162.8	141.8	126.0	118.1
52.5°	367.5	362.3	349.2	317.7	270.4	212.7	170.6	144.4	126.0	115.5	110.3
55°	301.9	301.9	288.8	267.8	231.0	181.1	149.6	128.6	112.9	105.0	99.8
57.5°	249.4	249.4	238.9	225.8	191.7	154.9	131.3	112.9	102.4	94.5	89.3
60°	204.8	204.8	196.9	183.8	160.1	131.3	112.9	99.8	91.9	84.0	81.4
62.5°	170.6	168.0	162.8	149.6	131.3	110.3	97.1	86.6	78.8	73.5	70.9
65°	136.5	133.9	128.6	118.1	105.0	91.9	81.4	73.5	68.3	63.0	60.4
67.5°	105.0	105.0	99.8	91.9	81.4	73.5	65.6	60.4	55.1	52.5	49.9
70°	76.1	76.1	73.5	68.3	60.4	55.1	49.9	47.3	44.6	42.0	39.4
72.5°	52.5	52.5	49.9	47.3	42.0	39.4	34.1	34.1	31.5	31.5	28.9
75°	28.9	28.9	28.9	26.3	26.3	23.6	23.6	23.6	21.0	21.0	21.0
77.5°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
80°	2.6	2.6	2.6	2.6	5.3	5.3	5.3	5.3	7.9	7.9	7.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6
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



TEST NUMBER: P#
 CATALOG NUMBER: P3ART20R709040D010 E3LCWW1WMH

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2	454.2
2.5°	448.9	441.1	435.8	433.2	425.3	422.7	420.1	417.4	417.4	417.4
5°	438.4	425.3	412.2	404.3	393.8	388.6	383.3	380.7	378.0	378.0
7.5°	420.1	404.3	388.6	375.4	364.9	354.4	349.2	343.9	343.9	341.3
10°	401.7	380.7	362.3	343.9	333.4	320.3	315.0	309.8	307.2	307.2
12.5°	380.7	354.4	333.4	317.7	301.9	291.4	283.5	278.3	275.7	275.7
15°	357.0	330.8	307.2	291.4	275.7	262.5	254.7	249.4	246.8	246.8
17.5°	333.4	307.2	280.9	265.2	249.4	236.3	231.0	225.8	223.2	220.5
20°	312.4	280.9	259.9	238.9	225.8	215.3	207.4	202.2	199.5	199.5
22.5°	288.8	259.9	236.3	220.5	207.4	196.9	186.4	183.8	181.1	181.1
25°	265.2	238.9	217.9	202.2	186.4	178.5	170.6	165.4	165.4	162.8
27.5°	246.8	220.5	199.5	183.8	173.3	162.8	157.5	152.3	149.6	149.6
30°	225.8	202.2	183.8	170.6	157.5	149.6	144.4	139.1	139.1	139.1
31°	220.5	196.9	178.5	162.8	152.3	144.4	139.1	136.5	133.9	133.9
32.5°	207.4	186.4	168.0	154.9	144.4	136.5	131.3	128.6	128.6	126.0
35°	191.7	170.6	154.9	141.8	133.9	126.0	120.8	118.1	118.1	118.1
37.5°	175.9	157.5	141.8	131.3	123.4	115.5	112.9	107.6	107.6	107.6
40°	160.1	144.4	131.3	120.8	112.9	107.6	105.0	102.4	99.8	99.8
42.5°	147.0	131.3	120.8	112.9	105.0	99.8	97.1	94.5	94.5	91.9
45°	133.9	120.8	112.9	105.0	97.1	94.5	91.9	89.3	86.6	86.6
47.5°	123.4	112.9	102.4	97.1	91.9	86.6	84.0	84.0	81.4	81.4
50°	112.9	102.4	94.5	89.3	84.0	81.4	78.8	78.8	76.1	76.1
52.5°	105.0	94.5	89.3	84.0	78.8	76.1	73.5	73.5	70.9	70.9
55°	94.5	86.6	81.4	78.8	73.5	70.9	68.3	65.6	65.6	68.3
57.5°	86.6	81.4	76.1	73.5	68.3	65.6	63.0	63.0	60.4	63.0
60°	78.8	73.5	68.3	65.6	63.0	60.4	57.8	55.1	55.1	55.1
62.5°	70.9	65.6	63.0	57.8	55.1	55.1	52.5	52.5	52.5	49.9
65°	60.4	57.8	55.1	52.5	49.9	47.3	47.3	44.6	44.6	44.6
67.5°	49.9	47.3	44.6	44.6	42.0	39.4	39.4	39.4	39.4	36.8
70°	39.4	36.8	36.8	34.1	34.1	34.1	31.5	31.5	31.5	31.5
72.5°	28.9	28.9	26.3	26.3	26.3	26.3	23.6	23.6	23.6	23.6
75°	21.0	21.0	21.0	18.4	18.4	18.4	15.8	15.8	15.8	15.8
77.5°	13.1	13.1	13.1	13.1	13.1	10.5	10.5	10.5	10.5	10.5
80°	7.9	7.9	7.9	7.9	5.3	5.3	5.3	5.3	5.3	2.6
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	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)