

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: P3ART20R709730D010 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: P3ART20R709730D010 E3CLSWW1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

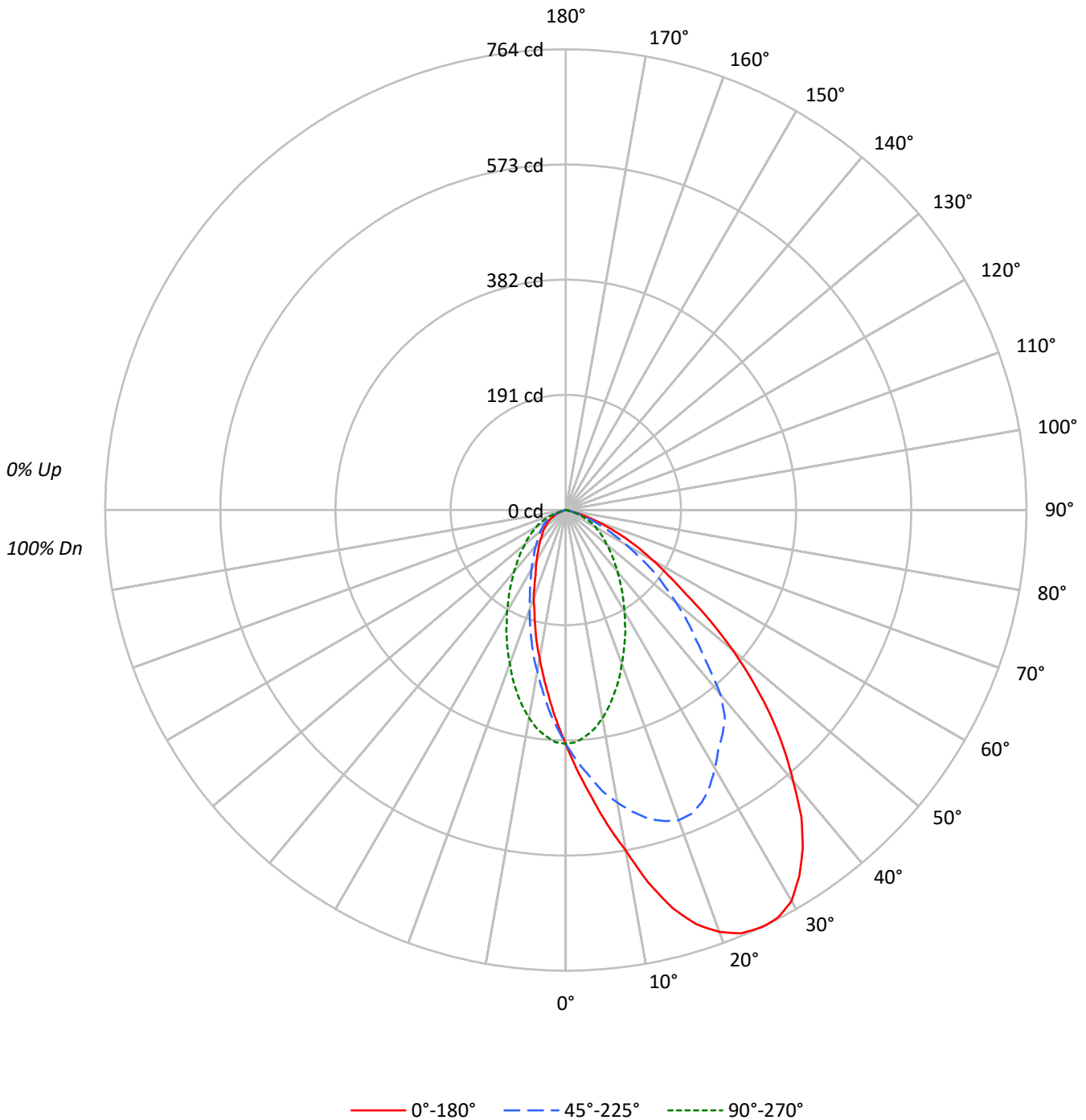
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 772.0 lumens
Efficiency: N/A
Efficacy: 26.8 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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	80	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	84993	84993	84993	84993	84993
5°	104578	97358	82897	72771	68919
10°	127742	109706	77999	60453	55577
15°	155097	120296	71079	50193	44745
20°	173732	127738	63356	40884	36286
25°	184898	129274	56156	33897	28598
30°	189599	125285	49349	28840	24383
35°	183450	121318	43366	24628	21094
40°	167972	114071	38243	21927	18807
45°	148698	95049	33957	20374	16963
50°	123254	81430	29884	18660	15692
55°	92900	67821	27641	17586	14222
60°	72977	50873	24954	16314	12499
65°	54532	37514	21585	13646	10222
70°	35070	23850	15451	9809	5642
75°	14827	12963	7456	3728	1864
80°	2778	2778	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 148698 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	4.8
10°-20°	105.8	13.7
20°-30°	154.7	20.0
30°-40°	168.6	21.8
40°-50°	145.9	18.9
50°-60°	97.7	12.7
60°-70°	50.5	6.5
70°-80°	11.9	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°	297.3	38.5
0°-40°	465.9	60.3
0°-60°	709.5	91.9
0°-90°	772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	772.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	388	388	388	388	388	
5°	475	442	377	331	313	48
15°	683	530	313	221	197	194
25°	764	534	232	140	118	351
35°	685	453	162	92	79	424
45°	480	306	110	66	55	367
55°	243	177	72	46	37	225
65°	105	72	42	26	20	106
75°	18	15	9	4	2	23
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°	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6
2.5°	431.4	429.2	429.2	424.8	420.4	416.0	409.5	402.9	396.3	389.7	385.4
5°	475.1	477.3	475.1	466.4	455.4	442.3	429.2	413.8	398.5	385.4	376.6
7.5°	525.5	525.5	518.9	508.0	492.7	470.8	448.9	422.6	398.5	376.6	365.7
10°	573.7	573.7	562.7	545.2	521.1	492.7	462.0	427.0	394.1	363.5	350.3
12.5°	632.8	630.6	617.5	589.0	554.0	512.4	470.8	427.0	387.6	350.3	332.8
15°	683.2	681.0	663.4	628.4	582.4	529.9	473.0	422.6	374.4	332.8	313.1
17.5°	720.4	716.0	696.3	659.1	606.5	540.8	475.1	413.8	359.1	313.1	293.4
20°	744.5	742.3	720.4	676.6	619.7	547.4	473.0	402.9	343.8	293.4	271.5
22.5°	759.8	755.4	733.5	685.3	619.7	545.2	464.2	387.6	324.1	273.7	251.8
25°	764.2	762.0	735.7	683.2	613.1	534.3	451.1	372.2	304.4	254.0	232.1
26°	764.2	762.0	735.7	681.0	608.7	527.7	444.5	365.7	297.8	245.2	225.5
27.5°	762.0	759.8	731.3	674.4	599.9	516.7	431.4	352.5	284.6	234.3	212.4
30°	748.8	744.5	716.0	659.1	580.2	494.8	409.5	332.8	264.9	214.6	194.9
32.5°	720.4	716.0	685.3	632.8	558.3	470.8	385.4	310.9	245.2	194.9	177.4
35°	685.3	681.0	650.3	599.9	527.7	453.2	359.1	286.8	223.3	179.5	162.0
37.5°	641.6	635.0	608.7	556.2	490.5	433.5	337.2	262.8	203.6	162.0	146.7
40°	586.8	584.6	560.5	512.4	446.7	398.5	324.1	262.8	186.1	146.7	133.6
42.5°	534.3	529.9	508.0	466.4	407.3	348.1	284.6	251.8	173.0	131.4	120.4
45°	479.5	475.1	455.4	420.4	365.7	306.5	306.5	216.8	148.9	120.4	109.5
47.5°	420.4	416.0	400.7	374.4	326.2	273.7	223.3	177.4	135.8	107.3	98.5
50°	361.3	363.5	350.3	324.1	286.8	238.7	192.7	148.9	116.0	96.3	87.6
52.5°	302.2	300.0	291.2	273.7	247.4	205.8	164.2	127.0	100.7	85.4	81.0
55°	243.0	245.2	240.9	229.9	208.0	177.4	137.9	109.5	89.8	76.6	72.3
57.5°	201.4	203.6	194.9	188.3	170.8	144.5	113.9	92.0	76.6	67.9	63.5
60°	166.4	168.6	162.0	153.3	140.1	116.0	92.0	76.6	67.9	61.3	56.9
62.5°	135.8	133.6	129.2	120.4	109.5	92.0	74.4	63.5	56.9	52.6	50.4
65°	105.1	105.1	100.7	94.2	85.4	72.3	59.1	52.6	48.2	43.8	41.6
67.5°	78.8	78.8	74.4	70.1	61.3	52.6	46.0	41.6	39.4	35.0	32.8
70°	54.7	54.7	52.6	50.4	43.8	37.2	35.0	30.7	28.5	26.3	24.1
72.5°	35.0	35.0	35.0	30.7	28.5	24.1	24.1	21.9	19.7	17.5	17.5
75°	17.5	19.7	17.5	17.5	15.3	15.3	13.1	13.1	10.9	10.9	8.8
77.5°	6.6	6.6	6.6	6.6	6.6	6.6	4.4	4.4	4.4	4.4	4.4
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	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°	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6
2.5°	381.0	374.4	370.0	363.5	359.1	354.7	352.5	350.3	350.3	350.3
5°	370.0	359.1	348.1	337.2	330.6	324.1	317.5	315.3	313.1	313.1
7.5°	356.9	339.4	324.1	310.9	300.0	293.4	286.8	282.5	280.3	280.3
10°	339.4	317.5	300.0	282.5	271.5	262.8	258.4	251.8	251.8	249.6
12.5°	319.7	293.4	273.7	258.4	247.4	236.5	229.9	225.5	223.3	223.3
15°	297.8	271.5	249.6	232.1	221.1	210.2	203.6	199.3	197.1	197.1
17.5°	275.9	247.4	225.5	208.0	197.1	186.1	179.5	175.2	175.2	173.0
20°	254.0	225.5	203.6	186.1	175.2	166.4	159.8	155.5	153.3	155.5
22.5°	234.3	205.8	183.9	168.6	155.5	146.7	140.1	137.9	135.8	135.8
25°	212.4	186.1	166.4	151.1	140.1	131.4	124.8	122.6	120.4	118.2
26°	205.8	179.5	159.8	144.5	133.6	124.8	120.4	116.0	113.9	113.9
27.5°	197.1	168.6	151.1	135.8	124.8	118.2	111.7	109.5	107.3	107.3
30°	177.4	153.3	135.8	122.6	113.9	105.1	100.7	98.5	96.3	96.3
32.5°	162.0	137.9	122.6	111.7	102.9	96.3	92.0	87.6	87.6	87.6
35°	146.7	124.8	111.7	100.7	92.0	85.4	83.2	81.0	78.8	78.8
37.5°	133.6	113.9	100.7	92.0	85.4	78.8	74.4	72.3	72.3	72.3
40°	120.4	105.1	92.0	83.2	76.6	72.3	67.9	65.7	65.7	65.7
42.5°	109.5	94.2	85.4	76.6	70.1	65.7	63.5	61.3	59.1	59.1
45°	100.7	87.6	76.6	70.1	65.7	61.3	56.9	54.7	54.7	54.7
47.5°	89.8	81.0	70.1	63.5	59.1	54.7	52.6	50.4	50.4	50.4
50°	83.2	74.4	65.7	59.1	54.7	50.4	48.2	46.0	46.0	46.0
52.5°	74.4	67.9	61.3	54.7	50.4	46.0	43.8	41.6	41.6	41.6
55°	67.9	61.3	54.7	50.4	46.0	41.6	39.4	37.2	37.2	37.2
57.5°	61.3	54.7	50.4	46.0	41.6	39.4	35.0	35.0	32.8	32.8
60°	54.7	48.2	43.8	41.6	37.2	35.0	30.7	28.5	28.5	28.5
62.5°	46.0	43.8	39.4	35.0	30.7	28.5	26.3	24.1	24.1	24.1
65°	39.4	37.2	32.8	28.5	26.3	24.1	21.9	19.7	19.7	19.7
67.5°	32.8	28.5	26.3	24.1	21.9	19.7	17.5	15.3	13.1	15.3
70°	24.1	21.9	19.7	17.5	15.3	13.1	10.9	10.9	8.8	8.8
72.5°	15.3	13.1	13.1	10.9	8.8	8.8	6.6	6.6	4.4	4.4
75°	8.8	8.8	6.6	6.6	4.4	4.4	2.2	2.2	2.2	2.2
77.5°	4.4	2.2	2.2	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)