

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: P3ART20R709727D010 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: P3ART20R709727D010 E3LCWW1WMH
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3LCWW1WMH TRIM
Light Source: -
Ballast/Driver: -

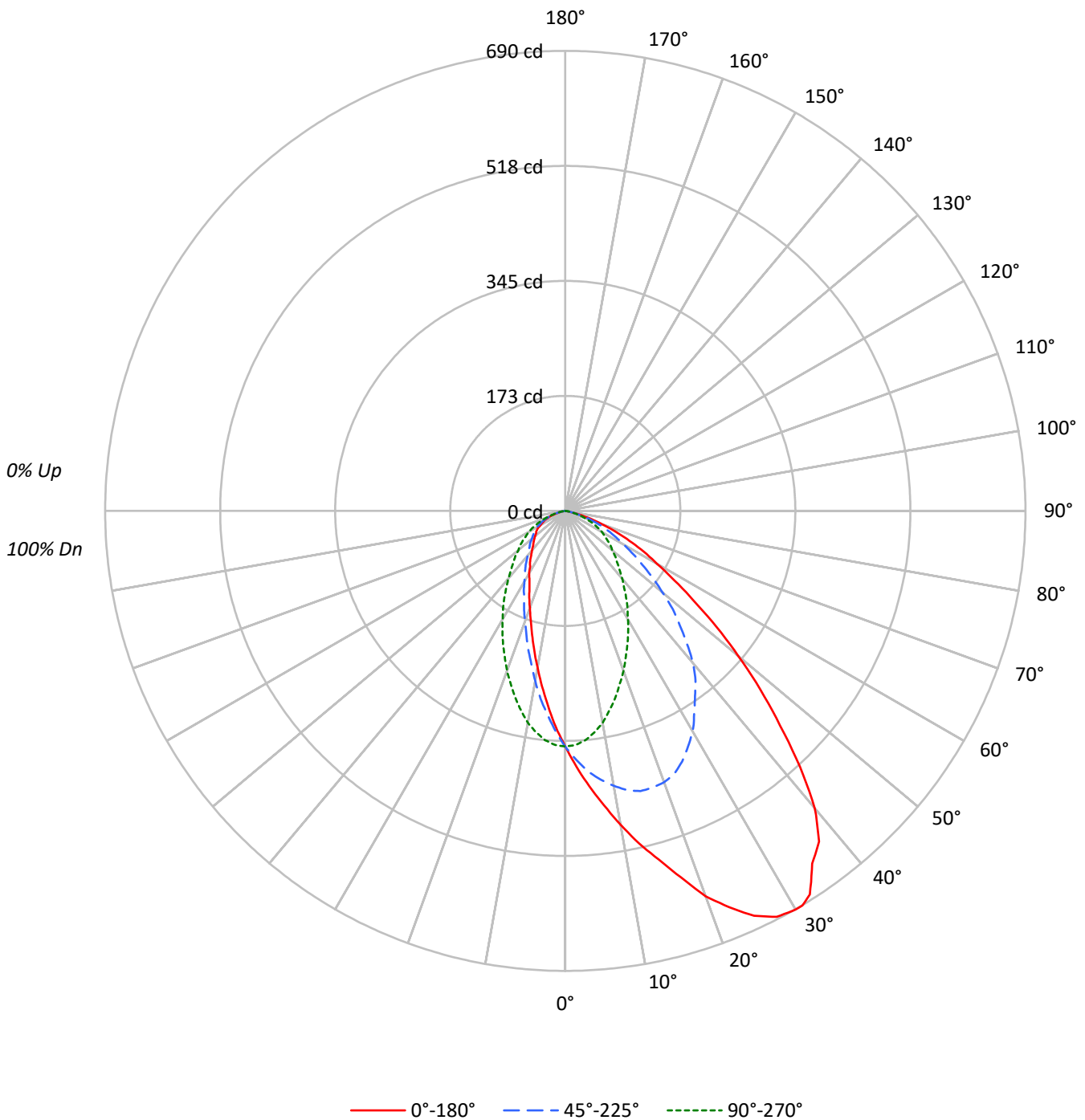
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 719.0 lumens
Efficiency: N/A
Efficacy: 25.0 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°	77494	77494	77494	77494	77494
5°	91283	86330	75985	67444	64759
10°	106433	93251	71876	57759	53217
15°	122906	98775	65857	48695	43587
20°	143489	101065	59599	41000	36240
25°	162130	100336	53374	35083	30655
30°	174837	96724	47577	31043	27422
35°	172822	90774	42643	27894	24601
40°	166655	85389	38014	25133	22213
45°	141286	75388	34205	23444	20901
50°	115681	64817	31351	22311	20195
55°	89803	53905	29667	21868	20300
60°	69863	44777	27761	21490	18814
65°	55103	37099	24387	20132	18005
70°	37955	27505	19619	17054	15708
75°	19063	15589	13810	12115	10421
80°	2526	5177	7703	5177	2526
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 141286 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	4.6
10°-20°	92.1	12.8
20°-30°	135.7	18.9
30°-40°	152.1	21.2
40°-50°	133.7	18.6
50°-60°	95.7	13.3
60°-70°	56.7	7.9
70°-80°	19.0	2.6
80°-90°	0.9	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°	260.8	36.3
0°-40°	412.9	57.4
0°-60°	642.4	89.3
0°-90°	719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	719.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	353	353	353	353	353	
5°	415	392	345	306	294	41
15°	541	435	290	214	192	156
25°	670	415	221	145	127	308
35°	646	339	159	104	92	406
45°	456	243	110	76	67	352
55°	235	141	78	57	53	215
65°	106	72	47	39	35	106
75°	22	18	16	14	12	27
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°	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4
2.5°	384.1	384.1	384.1	380.0	380.0	373.8	369.8	363.6	359.5	353.4	351.4
5°	414.7	414.7	410.6	406.5	400.4	392.2	382.0	371.8	359.5	349.3	345.2
7.5°	445.3	447.4	441.3	433.1	420.8	406.5	392.2	375.9	357.5	343.2	335.0
10°	478.0	478.0	469.9	457.6	439.2	418.8	396.3	373.8	351.4	330.9	322.8
12.5°	510.7	508.7	498.5	480.1	457.6	429.0	398.4	369.8	343.2	318.7	306.4
15°	541.4	541.4	527.1	504.6	471.9	435.1	398.4	361.6	330.9	302.3	290.1
17.5°	576.1	576.1	557.7	523.0	482.1	435.1	392.2	351.4	316.6	286.0	271.7
20°	614.9	612.9	586.3	539.3	486.2	433.1	384.1	339.1	300.3	267.6	255.4
22.5°	643.5	641.5	610.8	553.6	488.2	427.0	369.8	322.8	284.0	251.3	237.0
25°	670.1	666.0	631.3	559.7	484.2	414.7	355.5	304.4	267.6	234.9	220.6
27.5°	686.4	684.4	645.6	557.7	473.9	398.4	337.1	288.0	249.2	216.5	204.3
30°	690.5	692.5	645.6	547.5	457.6	382.0	318.7	269.7	230.8	202.2	187.9
31°	690.5	692.5	641.5	541.4	451.5	373.8	310.5	263.5	222.7	194.1	181.8
32.5°	682.3	678.2	635.3	531.1	437.2	359.5	300.3	253.3	212.5	183.9	173.6
35°	645.6	647.6	614.9	508.7	416.7	339.1	279.9	232.9	194.1	169.6	159.3
37.5°	625.1	625.1	565.9	478.0	394.3	320.7	255.4	210.4	177.7	155.3	145.0
40°	582.2	576.1	520.9	445.3	367.7	298.3	241.1	196.1	163.4	141.0	132.8
42.5°	520.9	514.8	471.9	416.7	333.0	269.7	228.8	173.6	147.1	128.7	120.5
45°	455.6	451.5	418.8	367.7	300.3	243.1	198.2	159.3	134.8	116.4	110.3
47.5°	396.3	390.2	365.7	326.9	271.7	218.6	171.6	143.0	120.5	106.2	102.1
50°	339.1	337.1	316.6	286.0	241.1	190.0	151.2	126.7	110.3	98.1	91.9
52.5°	286.0	281.9	271.7	247.2	210.4	165.5	132.8	112.4	98.1	89.9	85.8
55°	234.9	234.9	224.7	208.4	179.8	141.0	116.4	100.1	87.8	81.7	77.6
57.5°	194.1	194.1	185.9	175.7	149.1	120.5	102.1	87.8	79.7	73.5	69.5
60°	159.3	159.3	153.2	143.0	124.6	102.1	87.8	77.6	71.5	65.4	63.3
62.5°	132.8	130.7	126.7	116.4	102.1	85.8	75.6	67.4	61.3	57.2	55.2
65°	106.2	104.2	100.1	91.9	81.7	71.5	63.3	57.2	53.1	49.0	47.0
67.5°	81.7	81.7	77.6	71.5	63.3	57.2	51.1	47.0	42.9	40.9	38.8
70°	59.2	59.2	57.2	53.1	47.0	42.9	38.8	36.8	34.7	32.7	30.6
72.5°	40.9	40.9	38.8	36.8	32.7	30.6	26.6	26.6	24.5	24.5	22.5
75°	22.5	22.5	22.5	20.4	20.4	18.4	18.4	18.4	16.3	16.3	16.3
77.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
80°	2.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1	6.1	6.1	6.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0
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°	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4
2.5°	349.3	343.2	339.1	337.1	330.9	328.9	326.9	324.8	324.8	324.8
5°	341.2	330.9	320.7	314.6	306.4	302.3	298.3	296.2	294.2	294.2
7.5°	326.9	314.6	302.3	292.1	284.0	275.8	271.7	267.6	267.6	265.6
10°	312.6	296.2	281.9	267.6	259.4	249.2	245.1	241.1	239.0	239.0
12.5°	296.2	275.8	259.4	247.2	234.9	226.8	220.6	216.5	214.5	214.5
15°	277.8	257.4	239.0	226.8	214.5	204.3	198.2	194.1	192.0	192.0
17.5°	259.4	239.0	218.6	206.3	194.1	183.9	179.8	175.7	173.6	171.6
20°	243.1	218.6	202.2	185.9	175.7	167.5	161.4	157.3	155.3	155.3
22.5°	224.7	202.2	183.9	171.6	161.4	153.2	145.0	143.0	141.0	141.0
25°	206.3	185.9	169.6	157.3	145.0	138.9	132.8	128.7	128.7	126.7
27.5°	192.0	171.6	155.3	143.0	134.8	126.7	122.6	118.5	116.4	116.4
30°	175.7	157.3	143.0	132.8	122.6	116.4	112.4	108.3	108.3	108.3
31°	171.6	153.2	138.9	126.7	118.5	112.4	108.3	106.2	104.2	104.2
32.5°	161.4	145.0	130.7	120.5	112.4	106.2	102.1	100.1	100.1	98.1
35°	149.1	132.8	120.5	110.3	104.2	98.1	94.0	91.9	91.9	91.9
37.5°	136.9	122.6	110.3	102.1	96.0	89.9	87.8	83.8	83.8	83.8
40°	124.6	112.4	102.1	94.0	87.8	83.8	81.7	79.7	77.6	77.6
42.5°	114.4	102.1	94.0	87.8	81.7	77.6	75.6	73.5	73.5	71.5
45°	104.2	94.0	87.8	81.7	75.6	73.5	71.5	69.5	67.4	67.4
47.5°	96.0	87.8	79.7	75.6	71.5	67.4	65.4	65.4	63.3	63.3
50°	87.8	79.7	73.5	69.5	65.4	63.3	61.3	61.3	59.2	59.2
52.5°	81.7	73.5	69.5	65.4	61.3	59.2	57.2	57.2	55.2	55.2
55°	73.5	67.4	63.3	61.3	57.2	55.2	53.1	51.1	51.1	53.1
57.5°	67.4	63.3	59.2	57.2	53.1	51.1	49.0	49.0	47.0	49.0
60°	61.3	57.2	53.1	51.1	49.0	47.0	44.9	42.9	42.9	42.9
62.5°	55.2	51.1	49.0	44.9	42.9	42.9	40.9	40.9	40.9	38.8
65°	47.0	44.9	42.9	40.9	38.8	36.8	36.8	34.7	34.7	34.7
67.5°	38.8	36.8	34.7	34.7	32.7	30.6	30.6	30.6	30.6	28.6
70°	30.6	28.6	28.6	26.6	26.6	26.6	24.5	24.5	24.5	24.5
72.5°	22.5	22.5	20.4	20.4	20.4	20.4	18.4	18.4	18.4	18.4
75°	16.3	16.3	16.3	14.3	14.3	14.3	12.3	12.3	12.3	12.3
77.5°	10.2	10.2	10.2	10.2	10.2	8.2	8.2	8.2	8.2	8.2
80°	6.1	6.1	6.1	6.1	4.1	4.1	4.1	4.1	4.1	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	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)