

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: P3ART20R709735D010 E3CLSWW1MB

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: P3ART20R709735D010 E3CLSWW1MB
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , E3CLSWW1MB TRIM
Light Source: -
Ballast/Driver: -

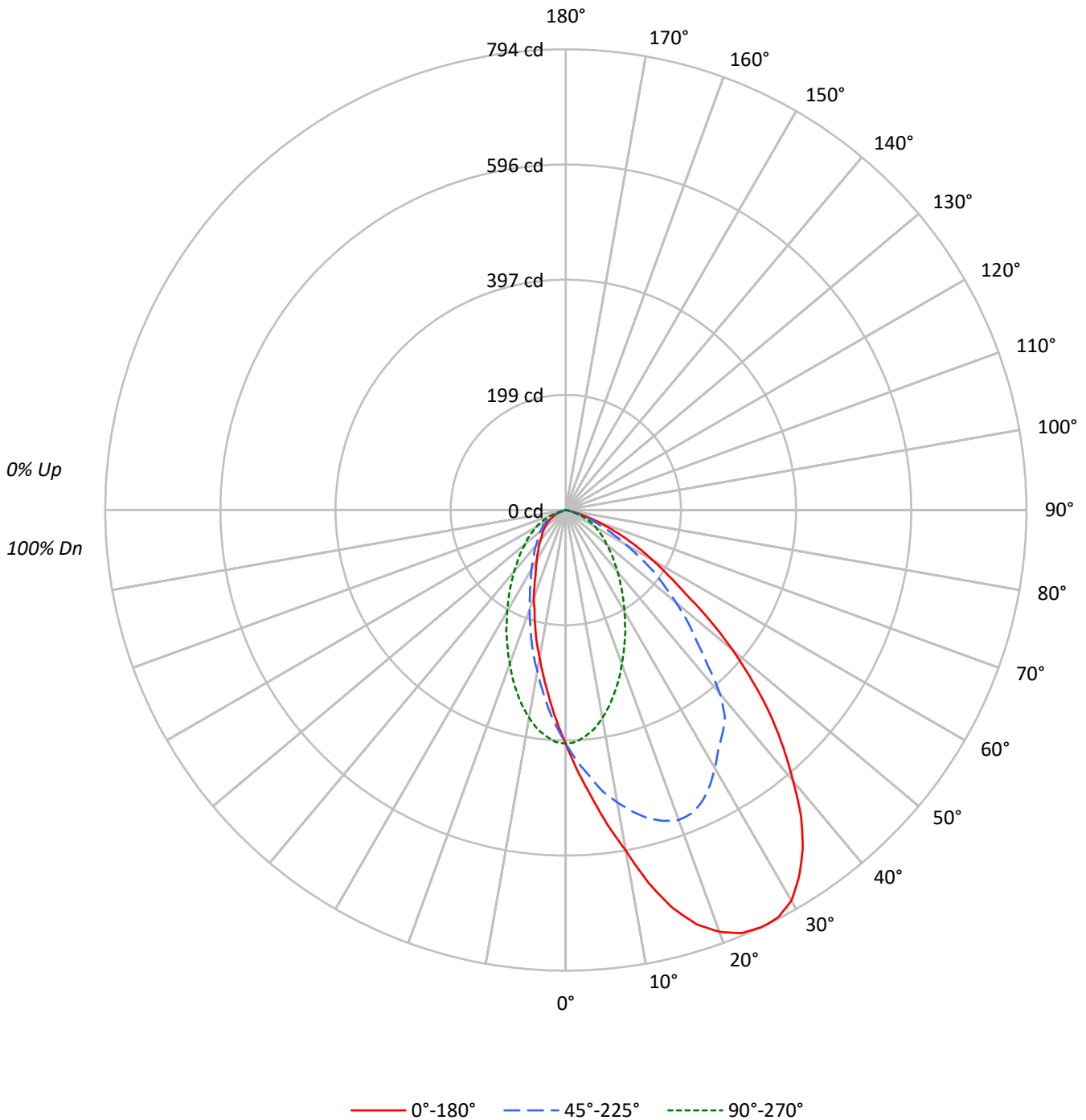
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 802.0 lumens
Efficiency: N/A
Efficacy: 27.8 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 (A_{in}): 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	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	80	80	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	88282	88282	88282	88282	88282
5°	108650	101144	86110	75611	71604
10°	132707	113959	81027	62813	57737
15°	161113	124972	73848	52146	46470
20°	180476	132708	65829	42470	37687
25°	192084	134282	58334	35228	29711
30°	196967	130172	51248	29954	25346
35°	190597	126056	45053	25565	21924
40°	174498	118508	39732	22786	19522
45°	154497	98770	35259	21149	17645
50°	128030	84569	31044	19411	16307
55°	96532	70420	28711	18274	14795
60°	75827	52890	25919	16972	12981
65°	56660	38967	22415	14165	10637
70°	36481	24812	16028	10194	5834
75°	15420	13471	7710	3813	1949
80°	2904	2904	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 154497 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	4.8
10°-20°	109.9	13.7
20°-30°	160.7	20.0
30°-40°	175.1	21.8
40°-50°	151.6	18.9
50°-60°	101.5	12.7
60°-70°	52.4	6.5
70°-80°	12.4	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°	308.9	38.5
0°-40°	484.0	60.3
0°-60°	737.0	91.9
0°-90°	802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	802.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	403	403	403	403	403	
5°	494	460	391	344	325	50
15°	710	550	325	230	205	201
25°	794	555	241	146	123	365
35°	712	471	168	96	82	441
45°	498	318	114	68	57	381
55°	252	184	75	48	39	234
65°	109	75	43	27	20	110
75°	18	16	9	4	2	24
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°	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6
2.5°	448.1	445.8	445.8	441.3	436.7	432.2	425.4	418.5	411.7	404.9	400.3
5°	493.6	495.9	493.6	484.5	473.1	459.5	445.8	429.9	414.0	400.3	391.2
7.5°	545.9	545.9	539.1	527.7	511.8	489.1	466.3	439.0	414.0	391.2	379.9
10°	596.0	596.0	584.6	566.4	541.4	511.8	480.0	443.6	409.4	377.6	363.9
12.5°	657.4	655.1	641.5	611.9	575.5	532.3	489.1	443.6	402.6	363.9	345.8
15°	709.7	707.4	689.2	652.8	605.1	550.5	491.3	439.0	389.0	345.8	325.3
17.5°	748.4	743.8	723.3	684.7	630.1	561.8	493.6	429.9	373.0	325.3	304.8
20°	773.4	771.1	748.4	702.9	643.7	568.7	491.3	418.5	357.1	304.8	282.1
22.5°	789.3	784.8	762.0	712.0	643.7	566.4	482.2	402.6	336.7	284.3	261.6
25°	793.9	791.6	764.3	709.7	636.9	555.0	468.6	386.7	316.2	263.9	241.1
26°	793.9	791.6	764.3	707.4	632.4	548.2	461.8	379.9	309.4	254.8	234.3
27.5°	791.6	789.3	759.7	700.6	623.3	536.8	448.1	366.2	295.7	243.4	220.6
30°	777.9	773.4	743.8	684.7	602.8	514.1	425.4	345.8	275.2	222.9	202.4
32.5°	748.4	743.8	712.0	657.4	580.0	489.1	400.3	323.0	254.8	202.4	184.2
35°	712.0	707.4	675.6	623.3	548.2	470.9	373.0	298.0	232.0	186.5	168.3
37.5°	666.5	659.7	632.4	577.8	509.5	450.4	350.3	273.0	211.5	168.3	152.4
40°	609.6	607.3	582.3	532.3	464.0	414.0	336.7	273.0	193.3	152.4	138.8
42.5°	555.0	550.5	527.7	484.5	423.1	361.7	295.7	261.6	179.7	136.5	125.1
45°	498.2	493.6	473.1	436.7	379.9	318.5	318.5	225.2	154.7	125.1	113.7
47.5°	436.7	432.2	416.3	389.0	338.9	284.3	232.0	184.2	141.0	111.5	102.4
50°	375.3	377.6	363.9	336.7	298.0	247.9	200.2	154.7	120.6	100.1	91.0
52.5°	313.9	311.6	302.5	284.3	257.0	213.8	170.6	131.9	104.6	88.7	84.2
55°	252.5	254.8	250.2	238.8	216.1	184.2	143.3	113.7	93.3	79.6	75.1
57.5°	209.3	211.5	202.4	195.6	177.4	150.1	118.3	95.5	79.6	70.5	66.0
60°	172.9	175.2	168.3	159.2	145.6	120.6	95.5	79.6	70.5	63.7	59.1
62.5°	141.0	138.8	134.2	125.1	113.7	95.5	77.3	66.0	59.1	54.6	52.3
65°	109.2	109.2	104.6	97.8	88.7	75.1	61.4	54.6	50.0	45.5	43.2
67.5°	81.9	81.9	77.3	72.8	63.7	54.6	47.8	43.2	40.9	36.4	34.1
70°	56.9	56.9	54.6	52.3	45.5	38.7	36.4	31.8	29.6	27.3	25.0
72.5°	36.4	36.4	36.4	31.8	29.6	25.0	25.0	22.7	20.5	18.2	18.2
75°	18.2	20.5	18.2	18.2	15.9	15.9	13.6	13.6	11.4	11.4	9.1
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	4.5	4.5	4.5	4.5	4.5
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	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°	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6	402.6
2.5°	395.8	389.0	384.4	377.6	373.0	368.5	366.2	363.9	363.9	363.9
5°	384.4	373.0	361.7	350.3	343.5	336.7	329.8	327.6	325.3	325.3
7.5°	370.8	352.6	336.7	323.0	311.6	304.8	298.0	293.4	291.2	291.2
10°	352.6	329.8	311.6	293.4	282.1	273.0	268.4	261.6	261.6	259.3
12.5°	332.1	304.8	284.3	268.4	257.0	245.7	238.8	234.3	232.0	232.0
15°	309.4	282.1	259.3	241.1	229.7	218.4	211.5	207.0	204.7	204.7
17.5°	286.6	257.0	234.3	216.1	204.7	193.3	186.5	182.0	182.0	179.7
20°	263.9	234.3	211.5	193.3	182.0	172.9	166.1	161.5	159.2	161.5
22.5°	243.4	213.8	191.1	175.2	161.5	152.4	145.6	143.3	141.0	141.0
25°	220.6	193.3	172.9	157.0	145.6	136.5	129.7	127.4	125.1	122.8
26°	213.8	186.5	166.1	150.1	138.8	129.7	125.1	120.6	118.3	118.3
27.5°	204.7	175.2	157.0	141.0	129.7	122.8	116.0	113.7	111.5	111.5
30°	184.2	159.2	141.0	127.4	118.3	109.2	104.6	102.4	100.1	100.1
32.5°	168.3	143.3	127.4	116.0	106.9	100.1	95.5	91.0	91.0	91.0
35°	152.4	129.7	116.0	104.6	95.5	88.7	86.4	84.2	81.9	81.9
37.5°	138.8	118.3	104.6	95.5	88.7	81.9	77.3	75.1	75.1	75.1
40°	125.1	109.2	95.5	86.4	79.6	75.1	70.5	68.2	68.2	68.2
42.5°	113.7	97.8	88.7	79.6	72.8	68.2	66.0	63.7	61.4	61.4
45°	104.6	91.0	79.6	72.8	68.2	63.7	59.1	56.9	56.9	56.9
47.5°	93.3	84.2	72.8	66.0	61.4	56.9	54.6	52.3	52.3	52.3
50°	86.4	77.3	68.2	61.4	56.9	52.3	50.0	47.8	47.8	47.8
52.5°	77.3	70.5	63.7	56.9	52.3	47.8	45.5	43.2	43.2	43.2
55°	70.5	63.7	56.9	52.3	47.8	43.2	40.9	38.7	38.7	38.7
57.5°	63.7	56.9	52.3	47.8	43.2	40.9	36.4	36.4	34.1	34.1
60°	56.9	50.0	45.5	43.2	38.7	36.4	31.8	29.6	29.6	29.6
62.5°	47.8	45.5	40.9	36.4	31.8	29.6	27.3	25.0	25.0	25.0
65°	40.9	38.7	34.1	29.6	27.3	25.0	22.7	20.5	20.5	20.5
67.5°	34.1	29.6	27.3	25.0	22.7	20.5	18.2	15.9	13.6	15.9
70°	25.0	22.7	20.5	18.2	15.9	13.6	11.4	11.4	9.1	9.1
72.5°	15.9	13.6	13.6	11.4	9.1	9.1	6.8	6.8	4.5	4.5
75°	9.1	9.1	6.8	6.8	4.5	4.5	2.3	2.3	2.3	2.3
77.5°	4.5	2.3	2.3	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)