

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: P1445588

Luminaire Tested: P3ART02R709024DE010 E3CLSWW1MMS

Issue Date: 5/8/2026

**Test Information**

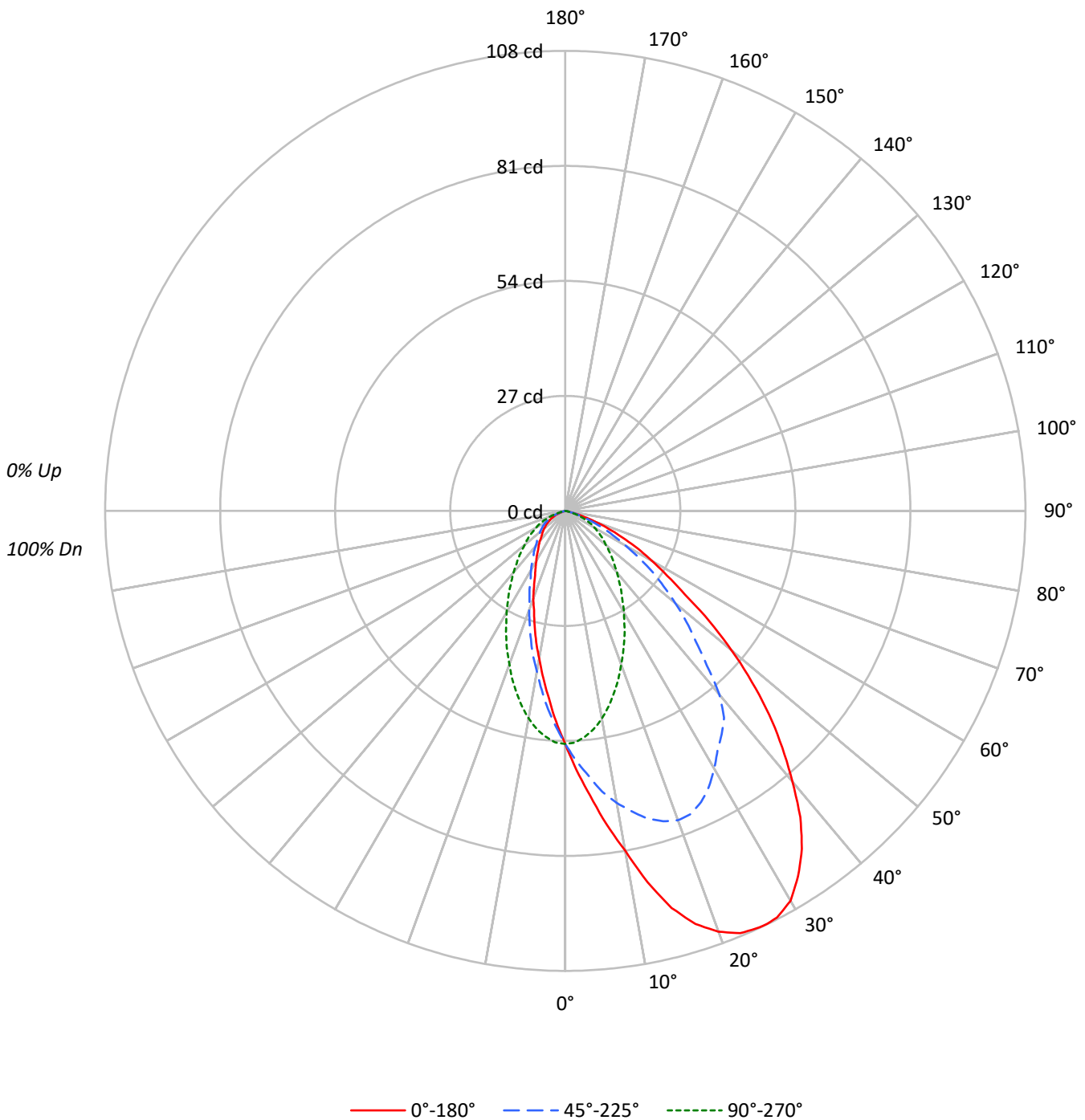
Test Method: LM-79-2019  
Report Number: P1445588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART02R709024DE010 E3CLSWW1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3CLSWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 109.0 lumens  
Efficiency: N/A  
Efficacy: 30.3 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): 3.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	11995	11995	11995	11995	11995
5°	14770	13735	11710	10280	9729
10°	18036	15497	11022	8528	7838
15°	21907	16981	10034	7083	6311
20°	24525	18038	8937	5764	5110
25°	26106	18243	7936	4791	4041
30°	26764	17699	6963	4077	3444
35°	25913	17132	6130	3480	2971
40°	23730	16116	5410	3092	2662
45°	20994	13428	4807	2884	2388
50°	17398	11496	4230	2627	2217
55°	13113	9558	3900	2485	2026
60°	10306	7192	3508	2324	1754
65°	7679	5292	3061	1920	1453
70°	4937	3398	2180	1410	769
75°	2118	1864	1017	508	254
80°	379	379	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20994 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.2	4.8
10°-20°	14.9	13.7
20°-30°	21.8	20.0
30°-40°	23.8	21.8
40°-50°	20.6	18.9
50°-60°	13.8	12.7
60°-70°	7.1	6.5
70°-80°	1.7	1.5
80°-90°	0.0	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°	42.0	38.5
0°-40°	65.8	60.3
0°-60°	100.2	91.9
0°-90°	109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	109.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	67	62	53	47	44	7
15°	96	75	44	31	28	27
25°	108	75	33	20	17	50
35°	97	64	23	13	11	60
45°	68	43	16	9	8	52
55°	34	25	10	6	5	32
65°	15	10	6	4	3	15
75°	2	2	1	1	0	3
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°	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
2.5°	60.9	60.6	60.6	60.0	59.4	58.7	57.8	56.9	56.0	55.0	54.4
5°	67.1	67.4	67.1	65.8	64.3	62.4	60.6	58.4	56.3	54.4	53.2
7.5°	74.2	74.2	73.3	71.7	69.6	66.5	63.4	59.7	56.3	53.2	51.6
10°	81.0	81.0	79.5	77.0	73.6	69.6	65.2	60.3	55.6	51.3	49.5
12.5°	89.3	89.0	87.2	83.2	78.2	72.3	66.5	60.3	54.7	49.5	47.0
15°	96.5	96.1	93.7	88.7	82.2	74.8	66.8	59.7	52.9	47.0	44.2
17.5°	101.7	101.1	98.3	93.1	85.6	76.4	67.1	58.4	50.7	44.2	41.4
20°	105.1	104.8	101.7	95.5	87.5	77.3	66.8	56.9	48.5	41.4	38.3
22.5°	107.3	106.7	103.6	96.8	87.5	77.0	65.5	54.7	45.8	38.6	35.6
25°	107.9	107.6	103.9	96.5	86.6	75.4	63.7	52.6	43.0	35.9	32.8
26°	107.9	107.6	103.9	96.1	85.9	74.5	62.8	51.6	42.0	34.6	31.8
27.5°	107.6	107.3	103.3	95.2	84.7	73.0	60.9	49.8	40.2	33.1	30.0
30°	105.7	105.1	101.1	93.1	81.9	69.9	57.8	47.0	37.4	30.3	27.5
32.5°	101.7	101.1	96.8	89.3	78.8	66.5	54.4	43.9	34.6	27.5	25.0
35°	96.8	96.1	91.8	84.7	74.5	64.0	50.7	40.5	31.5	25.4	22.9
37.5°	90.6	89.7	85.9	78.5	69.3	61.2	47.6	37.1	28.8	22.9	20.7
40°	82.9	82.5	79.1	72.3	63.1	56.3	45.8	37.1	26.3	20.7	18.9
42.5°	75.4	74.8	71.7	65.8	57.5	49.2	40.2	35.6	24.4	18.5	17.0
45°	67.7	67.1	64.3	59.4	51.6	43.3	43.3	30.6	21.0	17.0	15.5
47.5°	59.4	58.7	56.6	52.9	46.1	38.6	31.5	25.0	19.2	15.1	13.9
50°	51.0	51.3	49.5	45.8	40.5	33.7	27.2	21.0	16.4	13.6	12.4
52.5°	42.7	42.4	41.1	38.6	34.9	29.1	23.2	17.9	14.2	12.1	11.4
55°	34.3	34.6	34.0	32.5	29.4	25.0	19.5	15.5	12.7	10.8	10.2
57.5°	28.4	28.8	27.5	26.6	24.1	20.4	16.1	13.0	10.8	9.6	9.0
60°	23.5	23.8	22.9	21.6	19.8	16.4	13.0	10.8	9.6	8.7	8.0
62.5°	19.2	18.9	18.2	17.0	15.5	13.0	10.5	9.0	8.0	7.4	7.1
65°	14.8	14.8	14.2	13.3	12.1	10.2	8.3	7.4	6.8	6.2	5.9
67.5°	11.1	11.1	10.5	9.9	8.7	7.4	6.5	5.9	5.6	4.9	4.6
70°	7.7	7.7	7.4	7.1	6.2	5.3	4.9	4.3	4.0	3.7	3.4
72.5°	4.9	4.9	4.9	4.3	4.0	3.4	3.4	3.1	2.8	2.5	2.5
75°	2.5	2.8	2.5	2.5	2.2	2.2	1.9	1.9	1.5	1.5	1.2
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.6	0.6	0.6	0.6	0.6
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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°	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
2.5°	53.8	52.9	52.2	51.3	50.7	50.1	49.8	49.5	49.5	49.5
5°	52.2	50.7	49.2	47.6	46.7	45.8	44.8	44.5	44.2	44.2
7.5°	50.4	47.9	45.8	43.9	42.4	41.4	40.5	39.9	39.6	39.6
10°	47.9	44.8	42.4	39.9	38.3	37.1	36.5	35.6	35.6	35.2
12.5°	45.1	41.4	38.6	36.5	34.9	33.4	32.5	31.8	31.5	31.5
15°	42.0	38.3	35.2	32.8	31.2	29.7	28.8	28.1	27.8	27.8
17.5°	39.0	34.9	31.8	29.4	27.8	26.3	25.4	24.7	24.7	24.4
20°	35.9	31.8	28.8	26.3	24.7	23.5	22.6	21.9	21.6	21.9
22.5°	33.1	29.1	26.0	23.8	21.9	20.7	19.8	19.5	19.2	19.2
25°	30.0	26.3	23.5	21.3	19.8	18.5	17.6	17.3	17.0	16.7
26°	29.1	25.4	22.6	20.4	18.9	17.6	17.0	16.4	16.1	16.1
27.5°	27.8	23.8	21.3	19.2	17.6	16.7	15.8	15.5	15.1	15.1
30°	25.0	21.6	19.2	17.3	16.1	14.8	14.2	13.9	13.6	13.6
32.5°	22.9	19.5	17.3	15.8	14.5	13.6	13.0	12.4	12.4	12.4
35°	20.7	17.6	15.8	14.2	13.0	12.1	11.7	11.4	11.1	11.1
37.5°	18.9	16.1	14.2	13.0	12.1	11.1	10.5	10.2	10.2	10.2
40°	17.0	14.8	13.0	11.7	10.8	10.2	9.6	9.3	9.3	9.3
42.5°	15.5	13.3	12.1	10.8	9.9	9.3	9.0	8.7	8.3	8.3
45°	14.2	12.4	10.8	9.9	9.3	8.7	8.0	7.7	7.7	7.7
47.5°	12.7	11.4	9.9	9.0	8.3	7.7	7.4	7.1	7.1	7.1
50°	11.7	10.5	9.3	8.3	7.7	7.1	6.8	6.5	6.5	6.5
52.5°	10.5	9.6	8.7	7.7	7.1	6.5	6.2	5.9	5.9	5.9
55°	9.6	8.7	7.7	7.1	6.5	5.9	5.6	5.3	5.3	5.3
57.5°	8.7	7.7	7.1	6.5	5.9	5.6	4.9	4.9	4.6	4.6
60°	7.7	6.8	6.2	5.9	5.3	4.9	4.3	4.0	4.0	4.0
62.5°	6.5	6.2	5.6	4.9	4.3	4.0	3.7	3.4	3.4	3.4
65°	5.6	5.3	4.6	4.0	3.7	3.4	3.1	2.8	2.8	2.8
67.5°	4.6	4.0	3.7	3.4	3.1	2.8	2.5	2.2	1.9	2.2
70°	3.4	3.1	2.8	2.5	2.2	1.9	1.5	1.5	1.2	1.2
72.5°	2.2	1.9	1.9	1.5	1.2	1.2	0.9	0.9	0.6	0.6
75°	1.2	1.2	0.9	0.9	0.6	0.6	0.3	0.3	0.3	0.3
77.5°	0.6	0.3	0.3	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)