

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: P1446887

Luminaire Tested: P3ART02R709827DE010 E3CLSWW1MB

Issue Date: 5/8/2026

**Test Information**

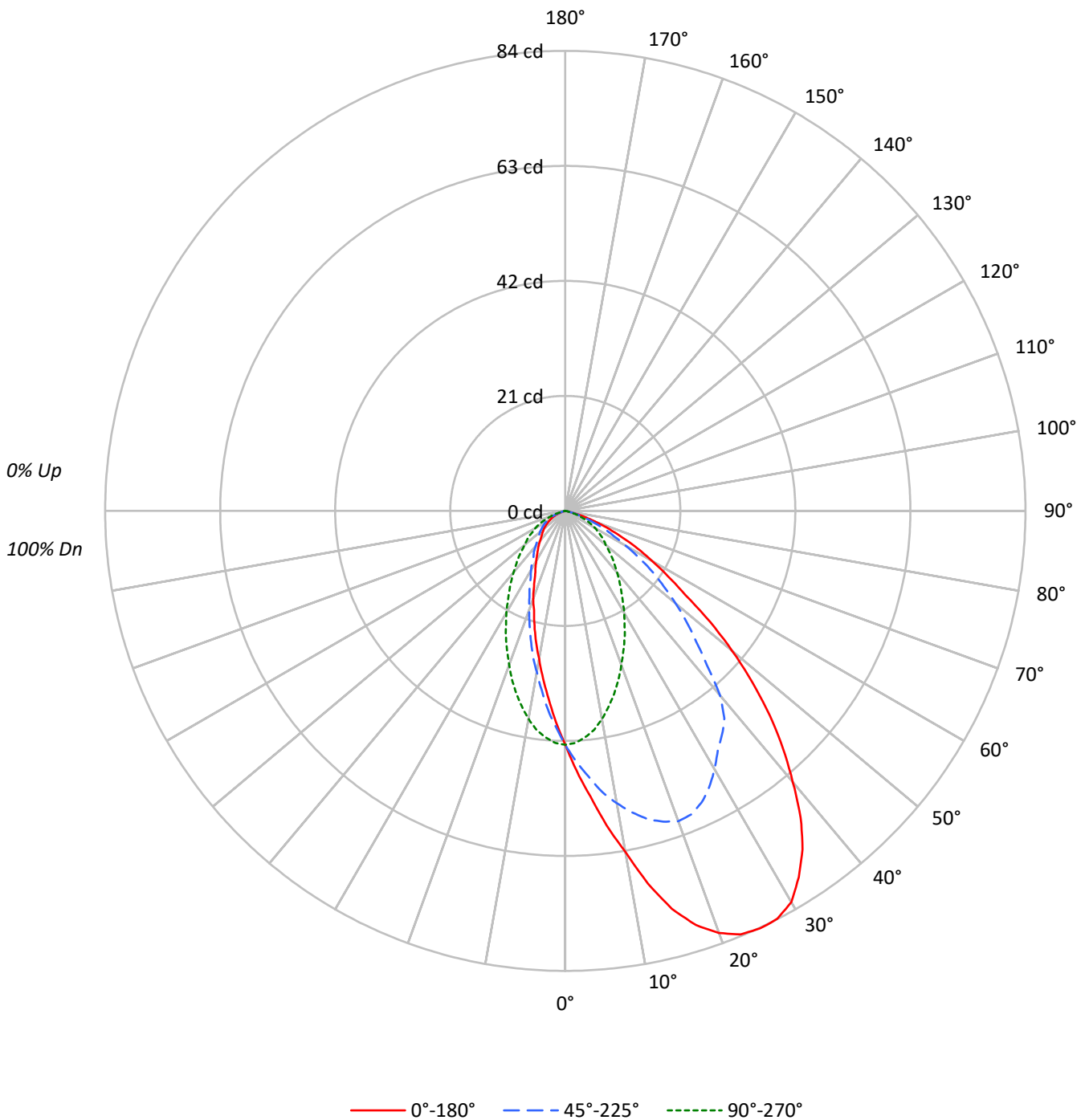
Test Method: LM-79-2019  
Report Number: P1446887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART02R709827DE010 E3CLSWW1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3CLSWW1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 85.0 lumens  
Efficiency: N/A  
Efficacy: 23.6 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 (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	100	100	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89	89	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78	78	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68	68	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	60	60	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53	53	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	47	47	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	43	43	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	39	39	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35	35	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32	32	32

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

	0°	45°	90°	135°	180°
0°	9363	9363	9363	9363	9363
5°	11512	10720	9135	8012	7594
10°	14072	12068	8595	6658	6123
15°	17072	13235	7832	5516	4926
20°	19135	14071	6977	4504	3990
25°	20348	14227	6194	3726	3145
30°	20889	13800	5444	3165	2684
35°	20211	13358	4765	2704	2329
40°	18492	12566	4208	2405	2061
45°	16374	10482	3752	2233	1861
50°	13577	8972	3275	2047	1740
55°	10246	7455	3058	1950	1567
60°	8026	5614	2763	1798	1360
65°	6019	4151	2387	1505	1141
70°	3847	2629	1731	1090	641
75°	1610	1440	847	424	169
80°	253	253	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16374 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.0	4.8
10°-20°	11.6	13.7
20°-30°	17.0	20.0
30°-40°	18.6	21.8
40°-50°	16.1	18.9
50°-60°	10.8	12.7
60°-70°	5.6	6.5
70°-80°	1.3	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°	32.7	38.5
0°-40°	51.3	60.3
0°-60°	78.1	91.9
0°-90°	85.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	85.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	52	49	42	36	34	5
15°	75	58	34	24	22	21
25°	84	59	26	15	13	39
35°	76	50	18	10	9	47
45°	53	34	12	7	6	40
55°	27	20	8	5	4	25
65°	12	8	5	3	2	12
75°	2	2	1	0	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°	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
2.5°	47.5	47.3	47.3	46.8	46.3	45.8	45.1	44.4	43.6	42.9	42.4
5°	52.3	52.6	52.3	51.4	50.1	48.7	47.3	45.6	43.9	42.4	41.5
7.5°	57.9	57.9	57.1	55.9	54.2	51.8	49.4	46.5	43.9	41.5	40.3
10°	63.2	63.2	62.0	60.0	57.4	54.2	50.9	47.0	43.4	40.0	38.6
12.5°	69.7	69.4	68.0	64.9	61.0	56.4	51.8	47.0	42.7	38.6	36.6
15°	75.2	75.0	73.0	69.2	64.1	58.3	52.1	46.5	41.2	36.6	34.5
17.5°	79.3	78.8	76.7	72.6	66.8	59.5	52.3	45.6	39.5	34.5	32.3
20°	82.0	81.7	79.3	74.5	68.2	60.3	52.1	44.4	37.8	32.3	29.9
22.5°	83.7	83.2	80.8	75.5	68.2	60.0	51.1	42.7	35.7	30.1	27.7
25°	84.1	83.9	81.0	75.2	67.5	58.8	49.7	41.0	33.5	28.0	25.6
26°	84.1	83.9	81.0	75.0	67.0	58.1	48.9	40.3	32.8	27.0	24.8
27.5°	83.9	83.7	80.5	74.3	66.1	56.9	47.5	38.8	31.3	25.8	23.4
30°	82.5	82.0	78.8	72.6	63.9	54.5	45.1	36.6	29.2	23.6	21.5
32.5°	79.3	78.8	75.5	69.7	61.5	51.8	42.4	34.2	27.0	21.5	19.5
35°	75.5	75.0	71.6	66.1	58.1	49.9	39.5	31.6	24.6	19.8	17.8
37.5°	70.6	69.9	67.0	61.2	54.0	47.7	37.1	28.9	22.4	17.8	16.2
40°	64.6	64.4	61.7	56.4	49.2	43.9	35.7	28.9	20.5	16.2	14.7
42.5°	58.8	58.3	55.9	51.4	44.8	38.3	31.3	27.7	19.0	14.5	13.3
45°	52.8	52.3	50.1	46.3	40.3	33.8	33.8	23.9	16.4	13.3	12.1
47.5°	46.3	45.8	44.1	41.2	35.9	30.1	24.6	19.5	14.9	11.8	10.8
50°	39.8	40.0	38.6	35.7	31.6	26.3	21.2	16.4	12.8	10.6	9.6
52.5°	33.3	33.0	32.1	30.1	27.2	22.7	18.1	14.0	11.1	9.4	8.9
55°	26.8	27.0	26.5	25.3	22.9	19.5	15.2	12.1	9.9	8.4	8.0
57.5°	22.2	22.4	21.5	20.7	18.8	15.9	12.5	10.1	8.4	7.5	7.0
60°	18.3	18.6	17.8	16.9	15.4	12.8	10.1	8.4	7.5	6.8	6.3
62.5°	14.9	14.7	14.2	13.3	12.1	10.1	8.2	7.0	6.3	5.8	5.5
65°	11.6	11.6	11.1	10.4	9.4	8.0	6.5	5.8	5.3	4.8	4.6
67.5°	8.7	8.7	8.2	7.7	6.8	5.8	5.1	4.6	4.3	3.9	3.6
70°	6.0	6.0	5.8	5.5	4.8	4.1	3.9	3.4	3.1	2.9	2.7
72.5°	3.9	3.9	3.9	3.4	3.1	2.7	2.7	2.4	2.2	1.9	1.9
75°	1.9	2.2	1.9	1.9	1.7	1.7	1.4	1.4	1.2	1.2	1.0
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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°	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
2.5°	41.9	41.2	40.7	40.0	39.5	39.1	38.8	38.6	38.6	38.6
5°	40.7	39.5	38.3	37.1	36.4	35.7	35.0	34.7	34.5	34.5
7.5°	39.3	37.4	35.7	34.2	33.0	32.3	31.6	31.1	30.9	30.9
10°	37.4	35.0	33.0	31.1	29.9	28.9	28.4	27.7	27.7	27.5
12.5°	35.2	32.3	30.1	28.4	27.2	26.0	25.3	24.8	24.6	24.6
15°	32.8	29.9	27.5	25.6	24.3	23.1	22.4	21.9	21.7	21.7
17.5°	30.4	27.2	24.8	22.9	21.7	20.5	19.8	19.3	19.3	19.0
20°	28.0	24.8	22.4	20.5	19.3	18.3	17.6	17.1	16.9	17.1
22.5°	25.8	22.7	20.3	18.6	17.1	16.2	15.4	15.2	14.9	14.9
25°	23.4	20.5	18.3	16.6	15.4	14.5	13.7	13.5	13.3	13.0
26°	22.7	19.8	17.6	15.9	14.7	13.7	13.3	12.8	12.5	12.5
27.5°	21.7	18.6	16.6	14.9	13.7	13.0	12.3	12.1	11.8	11.8
30°	19.5	16.9	14.9	13.5	12.5	11.6	11.1	10.8	10.6	10.6
32.5°	17.8	15.2	13.5	12.3	11.3	10.6	10.1	9.6	9.6	9.6
35°	16.2	13.7	12.3	11.1	10.1	9.4	9.2	8.9	8.7	8.7
37.5°	14.7	12.5	11.1	10.1	9.4	8.7	8.2	8.0	8.0	8.0
40°	13.3	11.6	10.1	9.2	8.4	8.0	7.5	7.2	7.2	7.2
42.5°	12.1	10.4	9.4	8.4	7.7	7.2	7.0	6.8	6.5	6.5
45°	11.1	9.6	8.4	7.7	7.2	6.8	6.3	6.0	6.0	6.0
47.5°	9.9	8.9	7.7	7.0	6.5	6.0	5.8	5.5	5.5	5.5
50°	9.2	8.2	7.2	6.5	6.0	5.5	5.3	5.1	5.1	5.1
52.5°	8.2	7.5	6.8	6.0	5.5	5.1	4.8	4.6	4.6	4.6
55°	7.5	6.8	6.0	5.5	5.1	4.6	4.3	4.1	4.1	4.1
57.5°	6.8	6.0	5.5	5.1	4.6	4.3	3.9	3.9	3.6	3.6
60°	6.0	5.3	4.8	4.6	4.1	3.9	3.4	3.1	3.1	3.1
62.5°	5.1	4.8	4.3	3.9	3.4	3.1	2.9	2.7	2.7	2.7
65°	4.3	4.1	3.6	3.1	2.9	2.7	2.4	2.2	2.2	2.2
67.5°	3.6	3.1	2.9	2.7	2.4	2.2	1.9	1.7	1.4	1.7
70°	2.7	2.4	2.2	1.9	1.7	1.4	1.2	1.2	1.0	1.0
72.5°	1.7	1.4	1.4	1.2	1.0	1.0	0.7	0.7	0.5	0.5
75°	1.0	1.0	0.7	0.7	0.5	0.5	0.2	0.2	0.2	0.2
77.5°	0.5	0.2	0.2	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)