

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: P1445639

Luminaire Tested: P3ART09R709024DE010 E3CLSWW1MB

Issue Date: 5/8/2026

**Test Information**

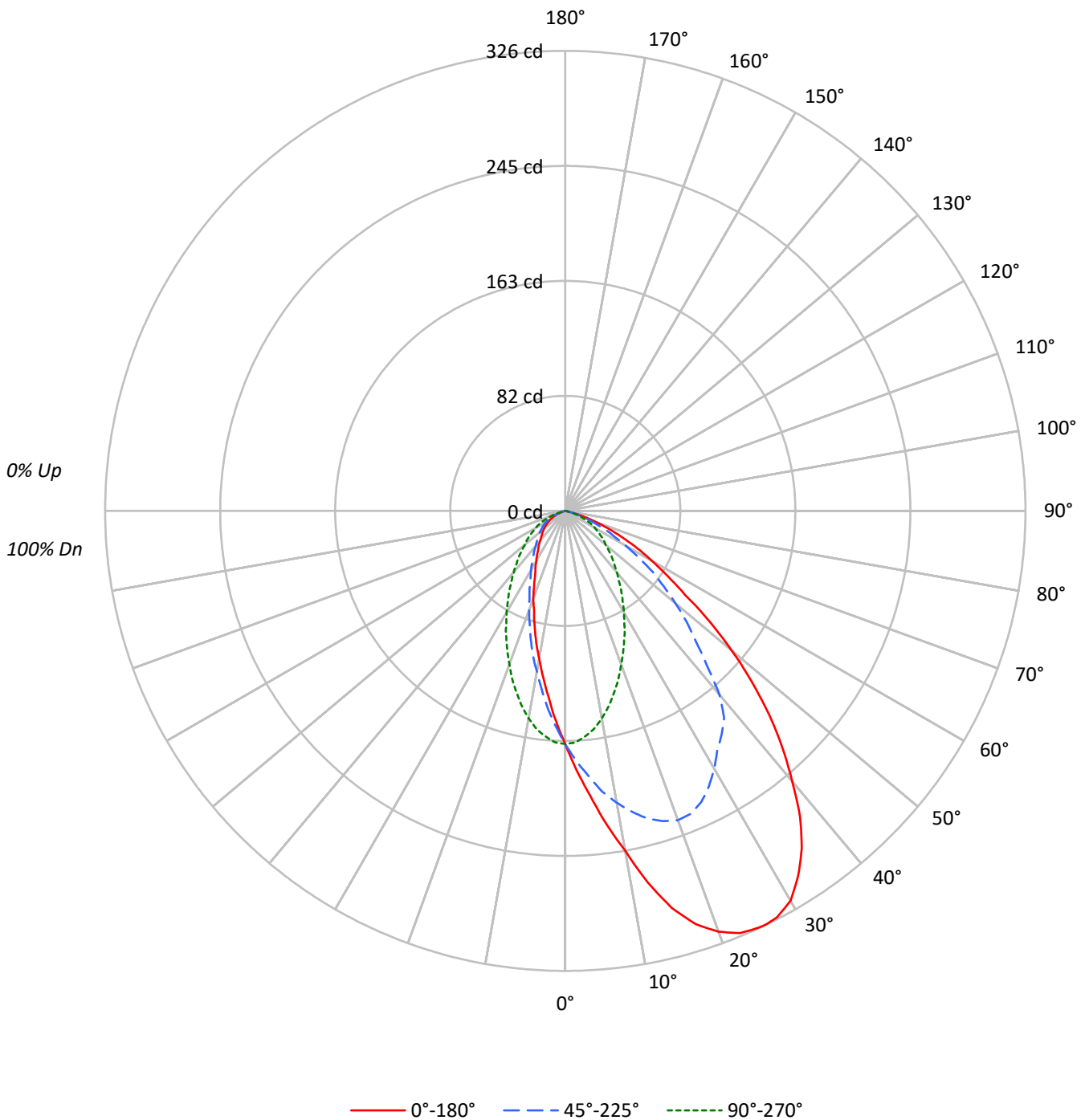
Test Method: LM-79-2019  
Report Number: P1445639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709024DE010 E3CLSWW1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3CLSWW1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 329.0 lumens  
Efficiency: N/A  
Efficacy: 29.6 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): 11.1  
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	89	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°	36225	36225	36225	36225	36225
5°	44574	41492	35329	31015	29364
10°	54441	46759	33244	25762	23691
15°	66084	51260	30284	21385	19069
20°	74043	54441	26999	17432	15471
25°	78803	55092	23929	14444	12194
30°	80797	53401	21016	12280	10407
35°	78193	51718	18498	10494	8994
40°	71591	48605	16288	9360	8015
45°	63386	40500	14482	8683	7226
50°	52536	34694	12725	7949	6686
55°	39607	28902	11775	7493	6079
60°	31094	21709	10657	6973	5307
65°	23245	15981	9184	5811	4358
70°	14938	10194	6604	4167	2372
75°	6354	5507	3135	1610	763
80°	1137	1137	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 63386 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.7	4.8
10°-20°	45.1	13.7
20°-30°	65.9	20.0
30°-40°	71.8	21.8
40°-50°	62.2	18.9
50°-60°	41.6	12.7
60°-70°	21.5	6.5
70°-80°	5.1	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
<b>0°-30°</b>	<b>126.7</b>	<b>38.5</b>
<b>0°-40°</b>	<b>198.5</b>	<b>60.3</b>
<b>0°-60°</b>	<b>302.4</b>	<b>91.9</b>
<b>0°-90°</b>	<b>329.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>329.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	165	165	165	165	165	
5°	202	188	160	141	133	21
15°	291	226	133	94	84	82
25°	326	228	99	60	50	150
35°	292	193	69	39	34	181
45°	204	131	47	28	23	156
55°	104	76	31	20	16	96
65°	45	31	18	11	8	45
75°	8	6	4	2	1	10
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°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2
2.5°	183.8	182.9	182.9	181.0	179.2	177.3	174.5	171.7	168.9	166.1	164.2
5°	202.5	203.4	202.5	198.8	194.1	188.5	182.9	176.4	169.8	164.2	160.5
7.5°	224.0	224.0	221.2	216.5	210.0	200.6	191.3	180.1	169.8	160.5	155.8
10°	244.5	244.5	239.8	232.3	222.1	210.0	196.9	182.0	168.0	154.9	149.3
12.5°	269.7	268.7	263.1	251.0	236.1	218.4	200.6	182.0	165.2	149.3	141.8
15°	291.1	290.2	282.7	267.8	248.2	225.8	201.6	180.1	159.6	141.8	133.4
17.5°	307.0	305.1	296.7	280.9	258.5	230.5	202.5	176.4	153.0	133.4	125.0
20°	317.3	316.3	307.0	288.3	264.1	233.3	201.6	171.7	146.5	125.0	115.7
22.5°	323.8	321.9	312.6	292.1	264.1	232.3	197.8	165.2	138.1	116.6	107.3
25°	325.7	324.7	313.5	291.1	261.3	227.7	192.2	158.6	129.7	108.2	98.9
26°	325.7	324.7	313.5	290.2	259.4	224.9	189.4	155.8	126.9	104.5	96.1
27.5°	324.7	323.8	311.7	287.4	255.7	220.2	183.8	150.2	121.3	99.8	90.5
30°	319.1	317.3	305.1	280.9	247.3	210.9	174.5	141.8	112.9	91.4	83.0
32.5°	307.0	305.1	292.1	269.7	237.9	200.6	164.2	132.5	104.5	83.0	75.6
35°	292.1	290.2	277.1	255.7	224.9	193.2	153.0	122.2	95.2	76.5	69.1
37.5°	273.4	270.6	259.4	237.0	209.0	184.8	143.7	112.0	86.8	69.1	62.5
40°	250.1	249.1	238.9	218.4	190.4	169.8	138.1	112.0	79.3	62.5	56.9
42.5°	227.7	225.8	216.5	198.8	173.6	148.4	121.3	107.3	73.7	56.0	51.3
45°	204.4	202.5	194.1	179.2	155.8	130.6	107.3	92.4	63.5	51.3	46.7
47.5°	179.2	177.3	170.8	159.6	139.0	116.6	95.2	75.6	57.9	45.7	42.0
50°	154.0	154.9	149.3	138.1	122.2	101.7	82.1	63.5	49.5	41.1	37.3
52.5°	128.8	127.8	124.1	116.6	105.4	87.7	70.0	54.1	42.9	36.4	34.5
55°	103.6	104.5	102.6	98.0	88.6	75.6	58.8	46.7	38.3	32.7	30.8
57.5°	85.8	86.8	83.0	80.2	72.8	61.6	48.5	39.2	32.7	28.9	27.1
60°	70.9	71.9	69.1	65.3	59.7	49.5	39.2	32.7	28.9	26.1	24.3
62.5°	57.9	56.9	55.1	51.3	46.7	39.2	31.7	27.1	24.3	22.4	21.5
65°	44.8	44.8	42.9	40.1	36.4	30.8	25.2	22.4	20.5	18.7	17.7
67.5°	33.6	33.6	31.7	29.9	26.1	22.4	19.6	17.7	16.8	14.9	14.0
70°	23.3	23.3	22.4	21.5	18.7	15.9	14.9	13.1	12.1	11.2	10.3
72.5°	14.9	14.9	14.9	13.1	12.1	10.3	10.3	9.3	8.4	7.5	7.5
75°	7.5	8.4	7.5	7.5	6.5	6.5	5.6	5.6	4.7	4.7	3.7
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.9	1.9	1.9	1.9	1.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2
2.5°	162.4	159.6	157.7	154.9	153.0	151.2	150.2	149.3	149.3	149.3
5°	157.7	153.0	148.4	143.7	140.9	138.1	135.3	134.4	133.4	133.4
7.5°	152.1	144.6	138.1	132.5	127.8	125.0	122.2	120.4	119.4	119.4
10°	144.6	135.3	127.8	120.4	115.7	112.0	110.1	107.3	107.3	106.4
12.5°	136.2	125.0	116.6	110.1	105.4	100.8	98.0	96.1	95.2	95.2
15°	126.9	115.7	106.4	98.9	94.2	89.6	86.8	84.9	84.0	84.0
17.5°	117.6	105.4	96.1	88.6	84.0	79.3	76.5	74.7	74.7	73.7
20°	108.2	96.1	86.8	79.3	74.7	70.9	68.1	66.3	65.3	66.3
22.5°	99.8	87.7	78.4	71.9	66.3	62.5	59.7	58.8	57.9	57.9
25°	90.5	79.3	70.9	64.4	59.7	56.0	53.2	52.3	51.3	50.4
26°	87.7	76.5	68.1	61.6	56.9	53.2	51.3	49.5	48.5	48.5
27.5°	84.0	71.9	64.4	57.9	53.2	50.4	47.6	46.7	45.7	45.7
30°	75.6	65.3	57.9	52.3	48.5	44.8	42.9	42.0	41.1	41.1
32.5°	69.1	58.8	52.3	47.6	43.9	41.1	39.2	37.3	37.3	37.3
35°	62.5	53.2	47.6	42.9	39.2	36.4	35.5	34.5	33.6	33.6
37.5°	56.9	48.5	42.9	39.2	36.4	33.6	31.7	30.8	30.8	30.8
40°	51.3	44.8	39.2	35.5	32.7	30.8	28.9	28.0	28.0	28.0
42.5°	46.7	40.1	36.4	32.7	29.9	28.0	27.1	26.1	25.2	25.2
45°	42.9	37.3	32.7	29.9	28.0	26.1	24.3	23.3	23.3	23.3
47.5°	38.3	34.5	29.9	27.1	25.2	23.3	22.4	21.5	21.5	21.5
50°	35.5	31.7	28.0	25.2	23.3	21.5	20.5	19.6	19.6	19.6
52.5°	31.7	28.9	26.1	23.3	21.5	19.6	18.7	17.7	17.7	17.7
55°	28.9	26.1	23.3	21.5	19.6	17.7	16.8	15.9	15.9	15.9
57.5°	26.1	23.3	21.5	19.6	17.7	16.8	14.9	14.9	14.0	14.0
60°	23.3	20.5	18.7	17.7	15.9	14.9	13.1	12.1	12.1	12.1
62.5°	19.6	18.7	16.8	14.9	13.1	12.1	11.2	10.3	10.3	10.3
65°	16.8	15.9	14.0	12.1	11.2	10.3	9.3	8.4	8.4	8.4
67.5°	14.0	12.1	11.2	10.3	9.3	8.4	7.5	6.5	5.6	6.5
70°	10.3	9.3	8.4	7.5	6.5	5.6	4.7	4.7	3.7	3.7
72.5°	6.5	5.6	5.6	4.7	3.7	3.7	2.8	2.8	1.9	1.9
75°	3.7	3.7	2.8	2.8	1.9	1.9	0.9	0.9	0.9	0.9
77.5°	1.9	0.9	0.9	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)