

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: P3ART09R70B2750DE010 E3LSWW1WMH\_4000K

Issue Date: 5/8/2026

**Test Information**

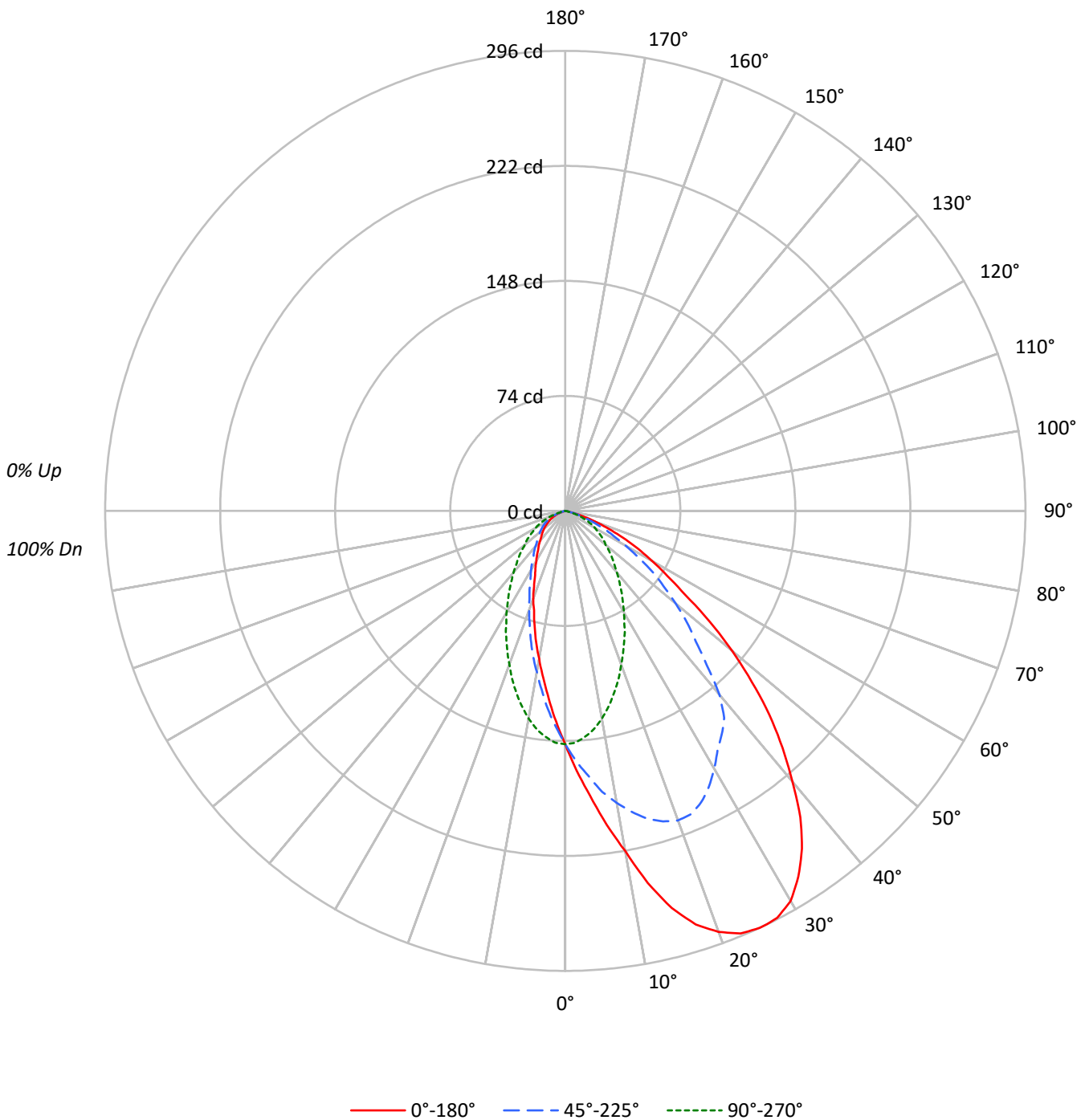
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R70B2750DE010 E3LSWW1WMH\_4000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 80CRI , E3LSWW1WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 299.0 lumens  
Efficiency: N/A  
Efficacy: 22.8 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): 13.1  
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				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	90	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°	32914	32914	32914	32914	32914
5°	40502	37706	32115	28197	26700
10°	49476	42484	30215	23424	21532
15°	60068	46584	27537	19455	17321
20°	67276	49471	24549	15821	14048
25°	71617	50059	21751	13138	11081
30°	73429	48539	19117	11166	9444
35°	71046	46980	16811	9530	8165
40°	65065	44168	14799	8502	7271
45°	57587	36810	13149	7877	6574
50°	47726	31521	11565	7232	6072
55°	35975	26264	10705	6805	5505
60°	28287	19691	9648	6315	4824
65°	21118	14528	8354	5292	3943
70°	13592	9232	5963	3783	2180
75°	5761	4999	2881	1440	678
80°	1010	1010	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 57587 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.2	4.8
10°-20°	41.0	13.7
20°-30°	59.9	20.0
30°-40°	65.3	21.8
40°-50°	56.5	18.9
50°-60°	37.8	12.7
60°-70°	19.5	6.5
70°-80°	4.6	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>115.1</b>	<b>38.5</b>
<b>0°-40°</b>	<b>180.4</b>	<b>60.4</b>
<b>0°-60°</b>	<b>274.8</b>	<b>91.9</b>
<b>0°-90°</b>	<b>299.0</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>299.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	150	150	150	150	150	
5°	184	171	146	128	121	19
15°	265	205	121	86	76	75
25°	296	207	90	54	46	136
35°	265	176	63	36	30	164
45°	186	119	42	25	21	142
55°	94	69	28	18	14	87
65°	41	28	16	10	8	41
75°	7	6	3	2	1	9
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°	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1
2.5°	167.1	166.2	166.2	164.5	162.8	161.1	158.6	156.0	153.5	151.0	149.3
5°	184.0	184.9	184.0	180.6	176.4	171.3	166.2	160.3	154.3	149.3	145.9
7.5°	203.5	203.5	201.0	196.7	190.8	182.3	173.8	163.7	154.3	145.9	141.6
10°	222.2	222.2	217.9	211.2	201.8	190.8	178.9	165.4	152.6	140.8	135.7
12.5°	245.1	244.2	239.1	228.1	214.6	198.4	182.3	165.4	150.1	135.7	128.9
15°	264.6	263.7	257.0	243.4	225.6	205.2	183.2	163.7	145.0	128.9	121.3
17.5°	279.0	277.3	269.7	255.3	234.9	209.5	184.0	160.3	139.1	121.3	113.6
20°	288.3	287.5	279.0	262.0	240.0	212.0	183.2	156.0	133.1	113.6	105.2
22.5°	294.3	292.6	284.1	265.4	240.0	211.2	179.8	150.1	125.5	106.0	97.5
25°	296.0	295.1	284.9	264.6	237.5	206.9	174.7	144.2	117.9	98.4	89.9
26°	296.0	295.1	284.9	263.7	235.8	204.4	172.2	141.6	115.3	95.0	87.3
27.5°	295.1	294.3	283.2	261.2	232.4	200.1	167.1	136.5	110.2	90.7	82.3
30°	290.0	288.3	277.3	255.3	224.7	191.7	158.6	128.9	102.6	83.1	75.5
32.5°	279.0	277.3	265.4	245.1	216.3	182.3	149.3	120.4	95.0	75.5	68.7
35°	265.4	263.7	251.9	232.4	204.4	175.5	139.1	111.1	86.5	69.5	62.8
37.5°	248.5	245.9	235.8	215.4	190.0	167.9	130.6	101.8	78.9	62.8	56.8
40°	227.3	226.4	217.1	198.4	173.0	154.3	125.5	101.8	72.1	56.8	51.7
42.5°	206.9	205.2	196.7	180.6	157.7	134.8	110.2	97.5	67.0	50.9	46.6
45°	185.7	184.0	176.4	162.8	141.6	118.7	118.7	84.0	57.7	46.6	42.4
47.5°	162.8	161.1	155.2	145.0	126.4	106.0	86.5	68.7	52.6	41.6	38.2
50°	139.9	140.8	135.7	125.5	111.1	92.4	74.6	57.7	44.9	37.3	33.9
52.5°	117.0	116.2	112.8	106.0	95.8	79.7	63.6	49.2	39.0	33.1	31.4
55°	94.1	95.0	93.3	89.0	80.6	68.7	53.4	42.4	34.8	29.7	28.0
57.5°	78.0	78.9	75.5	72.9	66.1	56.0	44.1	35.6	29.7	26.3	24.6
60°	64.5	65.3	62.8	59.4	54.3	44.9	35.6	29.7	26.3	23.7	22.0
62.5°	52.6	51.7	50.0	46.6	42.4	35.6	28.8	24.6	22.0	20.4	19.5
65°	40.7	40.7	39.0	36.5	33.1	28.0	22.9	20.4	18.7	17.0	16.1
67.5°	30.5	30.5	28.8	27.1	23.7	20.4	17.8	16.1	15.3	13.6	12.7
70°	21.2	21.2	20.4	19.5	17.0	14.4	13.6	11.9	11.0	10.2	9.3
72.5°	13.6	13.6	13.6	11.9	11.0	9.3	9.3	8.5	7.6	6.8	6.8
75°	6.8	7.6	6.8	6.8	5.9	5.9	5.1	5.1	4.2	4.2	3.4
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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°	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1	150.1
2.5°	147.6	145.0	143.3	140.8	139.1	137.4	136.5	135.7	135.7	135.7
5°	143.3	139.1	134.8	130.6	128.1	125.5	123.0	122.1	121.3	121.3
7.5°	138.2	131.4	125.5	120.4	116.2	113.6	111.1	109.4	108.5	108.5
10°	131.4	123.0	116.2	109.4	105.2	101.8	100.1	97.5	97.5	96.7
12.5°	123.8	113.6	106.0	100.1	95.8	91.6	89.0	87.3	86.5	86.5
15°	115.3	105.2	96.7	89.9	85.7	81.4	78.9	77.2	76.3	76.3
17.5°	106.9	95.8	87.3	80.6	76.3	72.1	69.5	67.8	67.8	67.0
20°	98.4	87.3	78.9	72.1	67.8	64.5	61.9	60.2	59.4	60.2
22.5°	90.7	79.7	71.2	65.3	60.2	56.8	54.3	53.4	52.6	52.6
25°	82.3	72.1	64.5	58.5	54.3	50.9	48.3	47.5	46.6	45.8
26°	79.7	69.5	61.9	56.0	51.7	48.3	46.6	44.9	44.1	44.1
27.5°	76.3	65.3	58.5	52.6	48.3	45.8	43.3	42.4	41.6	41.6
30°	68.7	59.4	52.6	47.5	44.1	40.7	39.0	38.2	37.3	37.3
32.5°	62.8	53.4	47.5	43.3	39.9	37.3	35.6	33.9	33.9	33.9
35°	56.8	48.3	43.3	39.0	35.6	33.1	32.2	31.4	30.5	30.5
37.5°	51.7	44.1	39.0	35.6	33.1	30.5	28.8	28.0	28.0	28.0
40°	46.6	40.7	35.6	32.2	29.7	28.0	26.3	25.4	25.4	25.4
42.5°	42.4	36.5	33.1	29.7	27.1	25.4	24.6	23.7	22.9	22.9
45°	39.0	33.9	29.7	27.1	25.4	23.7	22.0	21.2	21.2	21.2
47.5°	34.8	31.4	27.1	24.6	22.9	21.2	20.4	19.5	19.5	19.5
50°	32.2	28.8	25.4	22.9	21.2	19.5	18.7	17.8	17.8	17.8
52.5°	28.8	26.3	23.7	21.2	19.5	17.8	17.0	16.1	16.1	16.1
55°	26.3	23.7	21.2	19.5	17.8	16.1	15.3	14.4	14.4	14.4
57.5°	23.7	21.2	19.5	17.8	16.1	15.3	13.6	13.6	12.7	12.7
60°	21.2	18.7	17.0	16.1	14.4	13.6	11.9	11.0	11.0	11.0
62.5°	17.8	17.0	15.3	13.6	11.9	11.0	10.2	9.3	9.3	9.3
65°	15.3	14.4	12.7	11.0	10.2	9.3	8.5	7.6	7.6	7.6
67.5°	12.7	11.0	10.2	9.3	8.5	7.6	6.8	5.9	5.1	5.9
70°	9.3	8.5	7.6	6.8	5.9	5.1	4.2	4.2	3.4	3.4
72.5°	5.9	5.1	5.1	4.2	3.4	3.4	2.5	2.5	1.7	1.7
75°	3.4	3.4	2.5	2.5	1.7	1.7	0.8	0.8	0.8	0.8
77.5°	1.7	0.8	0.8	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)