

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 E3LCWW1WMH\_5000K

Issue Date: 5/8/2026

**Test Information**

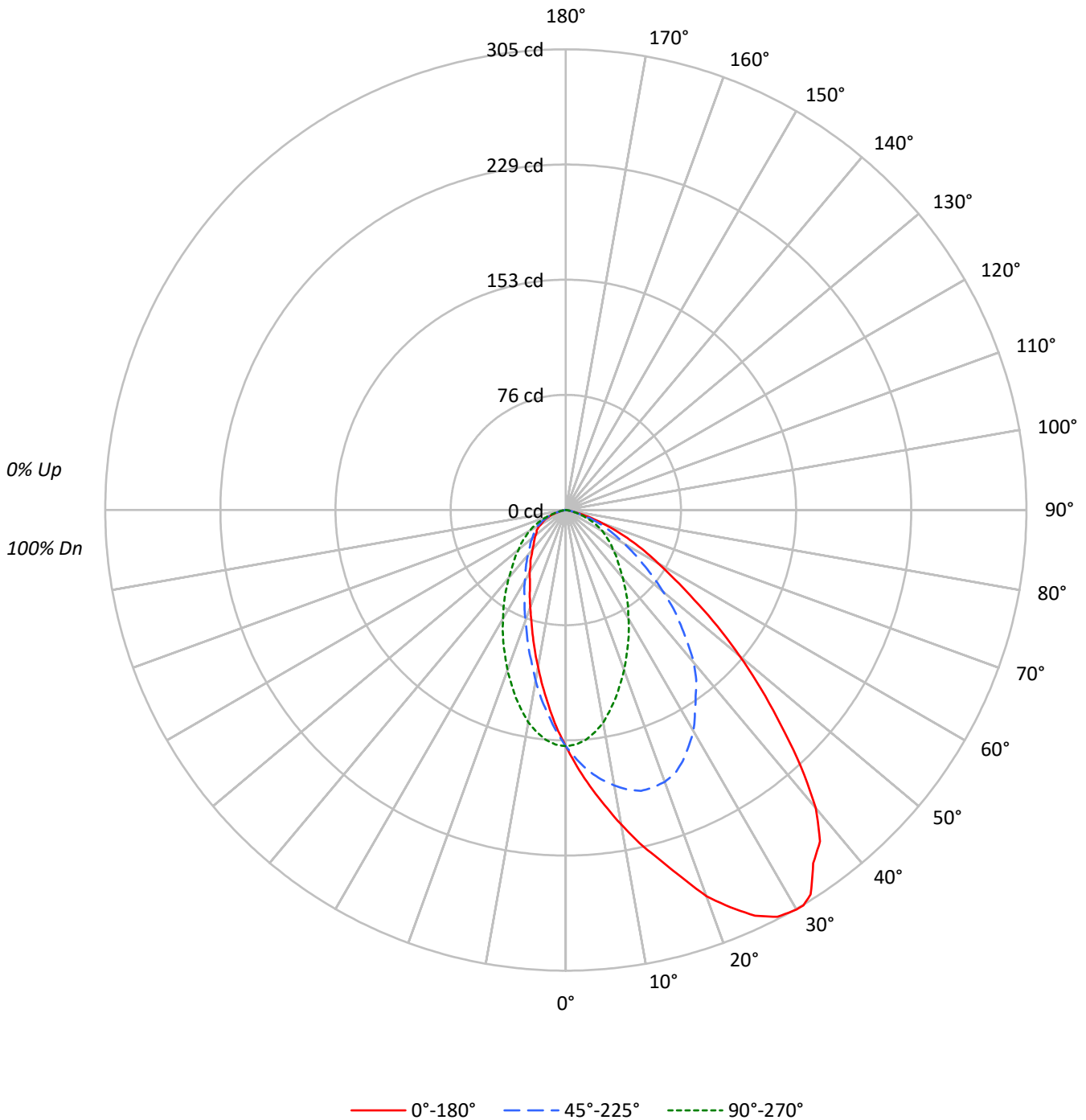
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R70B2750DE010 E3LCWW1WMH\_5000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 80CRI , E3LCWW1WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 318.0 lumens  
Efficiency: N/A  
Efficacy: 24.3 lumens/watt  
Spacing Criteria (0/90/45): 1.54 / 0.87 / 1.18  
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			
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	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	88	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46	46	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41	41	41
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37	37	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	34	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31	31	31

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

	0°	45°	90°	135°	180°
0°	34274	34274	34274	34274	34274
5°	40370	38191	33612	29826	28637
10°	47071	41237	31796	25539	23536
15°	54348	43701	29126	21544	19274
20°	63472	44687	26346	18132	16031
25°	71714	44374	23614	15533	13549
30°	77328	42791	21041	13724	12128
35°	76426	40154	18872	12341	10895
40°	73710	37756	16803	11135	9818
45°	62487	33337	15133	10358	9241
50°	51171	28656	13884	9859	8938
55°	39721	23818	13113	9672	8984
60°	30919	19823	12280	9517	8333
65°	24387	16396	10792	8924	7990
70°	16798	12182	8719	7501	6924
75°	8388	6863	6100	5338	4575
80°	1137	2273	3410	2273	1137
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 62487 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.6	4.6
10°-20°	40.7	12.8
20°-30°	60.0	18.9
30°-40°	67.3	21.2
40°-50°	59.1	18.6
50°-60°	42.3	13.3
60°-70°	25.1	7.9
70°-80°	8.4	2.6
80°-90°	0.4	0.1
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>115.4</b>	<b>36.3</b>
<b>0°-40°</b>	<b>182.6</b>	<b>57.4</b>
<b>0°-60°</b>	<b>284.1</b>	<b>89.3</b>
<b>0°-90°</b>	<b>318.0</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>318.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	156	156	156	156	156	
5°	183	174	153	136	130	18
15°	239	192	128	95	85	69
25°	296	183	98	64	56	136
35°	286	150	70	46	41	179
45°	202	108	49	33	30	156
55°	104	62	34	25	24	95
65°	47	32	21	17	15	47
75°	10	8	7	6	5	12
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°	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3
2.5°	169.9	169.9	169.9	168.1	168.1	165.3	163.5	160.8	159.0	156.3	155.4
5°	183.4	183.4	181.6	179.8	177.1	173.5	169.0	164.4	159.0	154.5	152.7
7.5°	197.0	197.9	195.2	191.5	186.1	179.8	173.5	166.2	158.1	151.8	148.2
10°	211.4	211.4	207.8	202.4	194.3	185.2	175.3	165.3	155.4	146.4	142.8
12.5°	225.9	225.0	220.5	212.3	202.4	189.7	176.2	163.5	151.8	141.0	135.5
15°	239.4	239.4	233.1	223.2	208.7	192.5	176.2	159.9	146.4	133.7	128.3
17.5°	254.8	254.8	246.7	231.3	213.2	192.5	173.5	155.4	140.0	126.5	120.2
20°	272.0	271.1	259.3	238.5	215.0	191.5	169.9	150.0	132.8	118.4	112.9
22.5°	284.6	283.7	270.2	244.9	215.9	188.8	163.5	142.8	125.6	111.1	104.8
25°	296.4	294.6	279.2	247.6	214.1	183.4	157.2	134.6	118.4	103.9	97.6
27.5°	303.6	302.7	285.5	246.7	209.6	176.2	149.1	127.4	110.2	95.8	90.4
30°	305.4	306.3	285.5	242.1	202.4	169.0	141.0	119.3	102.1	89.4	83.1
31°	305.4	306.3	283.7	239.4	199.7	165.3	137.3	116.6	98.5	85.8	80.4
32.5°	301.8	300.0	281.0	234.9	193.4	159.0	132.8	112.0	94.0	81.3	76.8
35°	285.5	286.4	272.0	225.0	184.3	150.0	123.8	103.0	85.8	75.0	70.5
37.5°	276.5	276.5	250.3	211.4	174.4	141.9	112.9	93.1	78.6	68.7	64.2
40°	257.5	254.8	230.4	197.0	162.6	131.9	106.6	86.7	72.3	62.3	58.7
42.5°	230.4	227.7	208.7	184.3	147.3	119.3	101.2	76.8	65.1	56.9	53.3
45°	201.5	199.7	185.2	162.6	132.8	107.5	87.6	70.5	59.6	51.5	48.8
47.5°	175.3	172.6	161.7	144.6	120.2	96.7	75.9	63.2	53.3	47.0	45.2
50°	150.0	149.1	140.0	126.5	106.6	84.0	66.9	56.0	48.8	43.4	40.7
52.5°	126.5	124.7	120.2	109.3	93.1	73.2	58.7	49.7	43.4	39.8	37.9
55°	103.9	103.9	99.4	92.2	79.5	62.3	51.5	44.3	38.9	36.1	34.3
57.5°	85.8	85.8	82.2	77.7	66.0	53.3	45.2	38.9	35.2	32.5	30.7
60°	70.5	70.5	67.8	63.2	55.1	45.2	38.9	34.3	31.6	28.9	28.0
62.5°	58.7	57.8	56.0	51.5	45.2	37.9	33.4	29.8	27.1	25.3	24.4
65°	47.0	46.1	44.3	40.7	36.1	31.6	28.0	25.3	23.5	21.7	20.8
67.5°	36.1	36.1	34.3	31.6	28.0	25.3	22.6	20.8	19.0	18.1	17.2
70°	26.2	26.2	25.3	23.5	20.8	19.0	17.2	16.3	15.4	14.5	13.6
72.5°	18.1	18.1	17.2	16.3	14.5	13.6	11.7	11.7	10.8	10.8	9.9
75°	9.9	9.9	9.9	9.0	9.0	8.1	8.1	8.1	7.2	7.2	7.2
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	2.7	2.7	2.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
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°	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3	156.3
2.5°	154.5	151.8	150.0	149.1	146.4	145.5	144.6	143.7	143.7	143.7
5°	150.9	146.4	141.9	139.1	135.5	133.7	131.9	131.0	130.1	130.1
7.5°	144.6	139.1	133.7	129.2	125.6	122.0	120.2	118.4	118.4	117.5
10°	138.2	131.0	124.7	118.4	114.7	110.2	108.4	106.6	105.7	105.7
12.5°	131.0	122.0	114.7	109.3	103.9	100.3	97.6	95.8	94.9	94.9
15°	122.9	113.8	105.7	100.3	94.9	90.4	87.6	85.8	84.9	84.9
17.5°	114.7	105.7	96.7	91.3	85.8	81.3	79.5	77.7	76.8	75.9
20°	107.5	96.7	89.4	82.2	77.7	74.1	71.4	69.6	68.7	68.7
22.5°	99.4	89.4	81.3	75.9	71.4	67.8	64.2	63.2	62.3	62.3
25°	91.3	82.2	75.0	69.6	64.2	61.4	58.7	56.9	56.9	56.0
27.5°	84.9	75.9	68.7	63.2	59.6	56.0	54.2	52.4	51.5	51.5
30°	77.7	69.6	63.2	58.7	54.2	51.5	49.7	47.9	47.9	47.9
31°	75.9	67.8	61.4	56.0	52.4	49.7	47.9	47.0	46.1	46.1
32.5°	71.4	64.2	57.8	53.3	49.7	47.0	45.2	44.3	44.3	43.4
35°	66.0	58.7	53.3	48.8	46.1	43.4	41.6	40.7	40.7	40.7
37.5°	60.5	54.2	48.8	45.2	42.5	39.8	38.9	37.0	37.0	37.0
40°	55.1	49.7	45.2	41.6	38.9	37.0	36.1	35.2	34.3	34.3
42.5°	50.6	45.2	41.6	38.9	36.1	34.3	33.4	32.5	32.5	31.6
45°	46.1	41.6	38.9	36.1	33.4	32.5	31.6	30.7	29.8	29.8
47.5°	42.5	38.9	35.2	33.4	31.6	29.8	28.9	28.9	28.0	28.0
50°	38.9	35.2	32.5	30.7	28.9	28.0	27.1	27.1	26.2	26.2
52.5°	36.1	32.5	30.7	28.9	27.1	26.2	25.3	25.3	24.4	24.4
55°	32.5	29.8	28.0	27.1	25.3	24.4	23.5	22.6	22.6	23.5
57.5°	29.8	28.0	26.2	25.3	23.5	22.6	21.7	21.7	20.8	21.7
60°	27.1	25.3	23.5	22.6	21.7	20.8	19.9	19.0	19.0	19.0
62.5°	24.4	22.6	21.7	19.9	19.0	19.0	18.1	18.1	18.1	17.2
65°	20.8	19.9	19.0	18.1	17.2	16.3	16.3	15.4	15.4	15.4
67.5°	17.2	16.3	15.4	15.4	14.5	13.6	13.6	13.6	13.6	12.6
70°	13.6	12.6	12.6	11.7	11.7	11.7	10.8	10.8	10.8	10.8
72.5°	9.9	9.9	9.0	9.0	9.0	9.0	8.1	8.1	8.1	8.1
75°	7.2	7.2	7.2	6.3	6.3	6.3	5.4	5.4	5.4	5.4
77.5°	4.5	4.5	4.5	4.5	4.5	3.6	3.6	3.6	3.6	3.6
80°	2.7	2.7	2.7	2.7	1.8	1.8	1.8	1.8	1.8	0.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	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)