

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 E3CLSWW1MW_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 (G1-2509-551-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/8/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3ART09R70B2750DE010 E3CLSWW1MW_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 80CRI , E3CLSWW1MW TRIM
Light Source: -
Ballast/Driver: -

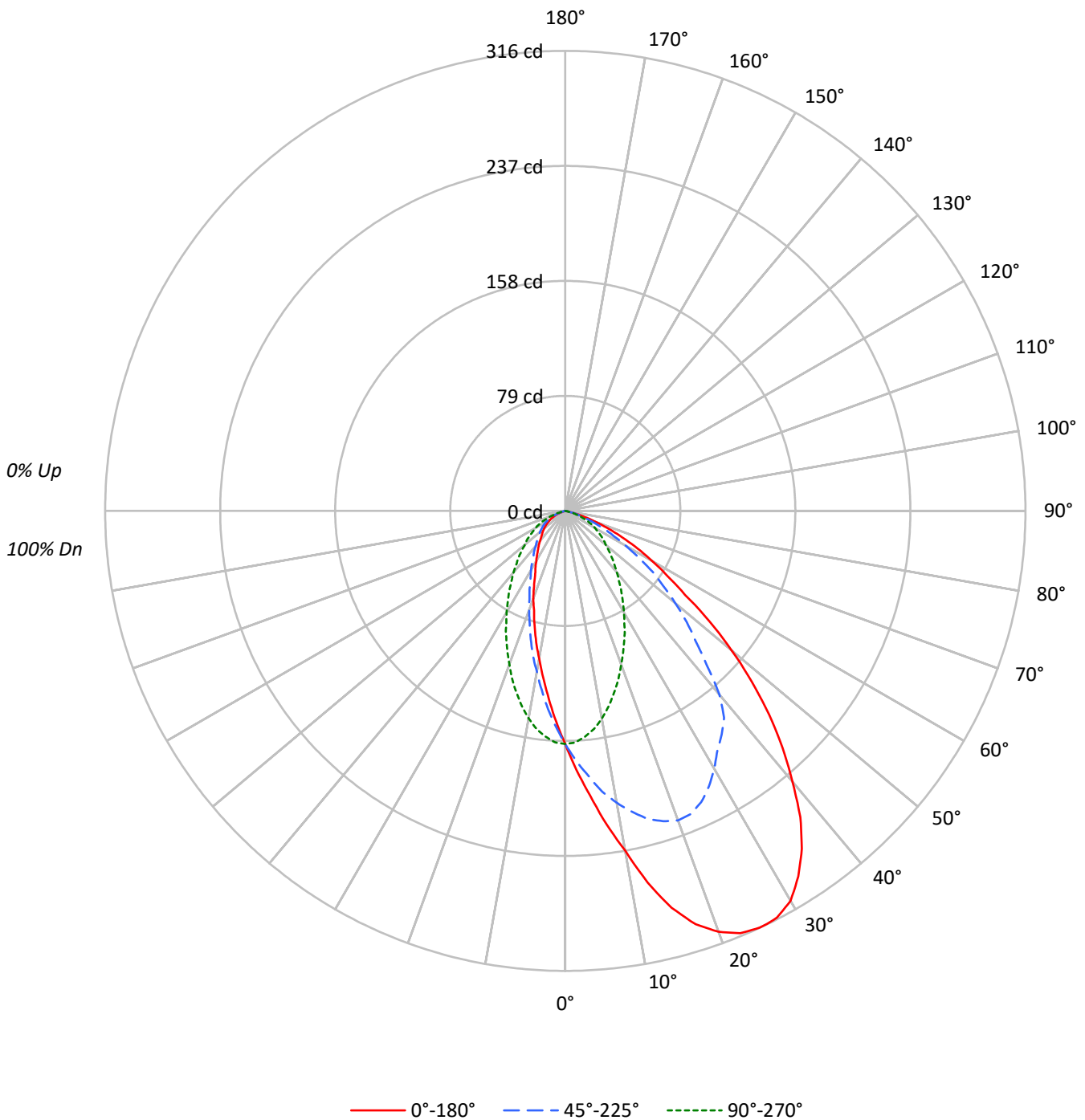
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 319.0 lumens
Efficiency: N/A
Efficacy: 24.4 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				
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	89	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°	35107	35107	35107	35107	35107
5°	43209	40238	34250	30068	28483
10°	52771	45334	32242	24983	22957
15°	64087	49717	29376	20749	18479
20°	71780	52785	26182	16895	14981
25°	76408	53422	23203	14009	11831
30°	78341	51780	20383	11901	10077
35°	75810	50139	17935	10172	8727
40°	69416	47145	15801	9074	7757
45°	61433	39291	14017	8404	7008
50°	50932	33636	12349	7710	6482
55°	38383	28023	11431	7264	5887
60°	30173	21051	10306	6754	5175
65°	22519	15514	8924	5656	4203
70°	14490	9873	6411	4039	2308
75°	6100	5338	3050	1525	763
80°	1137	1137	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 61433 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.2	4.8
10°-20°	43.7	13.7
20°-30°	63.9	20.0
30°-40°	69.7	21.8
40°-50°	60.3	18.9
50°-60°	40.4	12.7
60°-70°	20.9	6.5
70°-80°	4.9	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°	122.8	38.5
0°-40°	192.5	60.3
0°-60°	293.2	91.9
0°-90°	319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	319.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	160	160	160	160	160	
5°	196	183	156	137	129	20
15°	282	219	129	91	81	80
25°	316	221	96	58	49	145
35°	283	187	67	38	33	175
45°	198	127	45	27	23	152
55°	100	73	30	19	15	93
65°	43	30	17	11	8	44
75°	7	6	4	2	1	9
85°	0	0	0	0	0	0
90°	0	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°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	178.2	177.3	177.3	175.5	173.7	171.9	169.2	166.5	163.8	161.0	159.2
5°	196.3	197.2	196.3	192.7	188.2	182.8	177.3	171.0	164.7	159.2	155.6
7.5°	217.1	217.1	214.4	209.9	203.6	194.5	185.5	174.6	164.7	155.6	151.1
10°	237.0	237.0	232.5	225.3	215.3	203.6	190.9	176.4	162.9	150.2	144.8
12.5°	261.5	260.6	255.1	243.4	228.9	211.7	194.5	176.4	160.1	144.8	137.5
15°	282.3	281.4	274.1	259.7	240.7	219.0	195.4	174.6	154.7	137.5	129.4
17.5°	297.7	295.9	287.7	272.3	250.6	223.5	196.3	171.0	148.4	129.4	121.2
20°	307.6	306.7	297.7	279.6	256.0	226.2	195.4	166.5	142.0	121.2	112.2
22.5°	314.0	312.1	303.1	283.2	256.0	225.3	191.8	160.1	133.9	113.1	104.0
25°	315.8	314.9	304.0	282.3	253.3	220.8	186.4	153.8	125.8	105.0	95.9
26°	315.8	314.9	304.0	281.4	251.5	218.0	183.7	151.1	123.0	101.3	93.2
27.5°	314.9	314.0	302.2	278.7	247.9	213.5	178.2	145.7	117.6	96.8	87.8
30°	309.4	307.6	295.9	272.3	239.8	204.5	169.2	137.5	109.5	88.7	80.5
32.5°	297.7	295.9	283.2	261.5	230.7	194.5	159.2	128.5	101.3	80.5	73.3
35°	283.2	281.4	268.7	247.9	218.0	187.3	148.4	118.5	92.3	74.2	67.0
37.5°	265.1	262.4	251.5	229.8	202.7	179.1	139.3	108.6	84.1	67.0	60.6
40°	242.5	241.6	231.6	211.7	184.6	164.7	133.9	108.6	76.9	60.6	55.2
42.5°	220.8	219.0	209.9	192.7	168.3	143.9	117.6	104.0	71.5	54.3	49.8
45°	198.1	196.3	188.2	173.7	151.1	126.7	126.7	89.6	61.5	49.8	45.2
47.5°	173.7	171.9	165.6	154.7	134.8	113.1	92.3	73.3	56.1	44.3	40.7
50°	149.3	150.2	144.8	133.9	118.5	98.6	79.6	61.5	48.0	39.8	36.2
52.5°	124.9	124.0	120.3	113.1	102.2	85.0	67.9	52.5	41.6	35.3	33.5
55°	100.4	101.3	99.5	95.0	86.0	73.3	57.0	45.2	37.1	31.7	29.9
57.5°	83.2	84.1	80.5	77.8	70.6	59.7	47.0	38.0	31.7	28.0	26.2
60°	68.8	69.7	67.0	63.3	57.9	48.0	38.0	31.7	28.0	25.3	23.5
62.5°	56.1	55.2	53.4	49.8	45.2	38.0	30.8	26.2	23.5	21.7	20.8
65°	43.4	43.4	41.6	38.9	35.3	29.9	24.4	21.7	19.9	18.1	17.2
67.5°	32.6	32.6	30.8	29.0	25.3	21.7	19.0	17.2	16.3	14.5	13.6
70°	22.6	22.6	21.7	20.8	18.1	15.4	14.5	12.7	11.8	10.9	10.0
72.5°	14.5	14.5	14.5	12.7	11.8	10.0	10.0	9.0	8.1	7.2	7.2
75°	7.2	8.1	7.2	7.2	6.3	6.3	5.4	5.4	4.5	4.5	3.6
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	1.8	1.8	1.8	1.8	1.8
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°	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1	160.1
2.5°	157.4	154.7	152.9	150.2	148.4	146.6	145.7	144.8	144.8	144.8
5°	152.9	148.4	143.9	139.3	136.6	133.9	131.2	130.3	129.4	129.4
7.5°	147.5	140.2	133.9	128.5	124.0	121.2	118.5	116.7	115.8	115.8
10°	140.2	131.2	124.0	116.7	112.2	108.6	106.8	104.0	104.0	103.1
12.5°	132.1	121.2	113.1	106.8	102.2	97.7	95.0	93.2	92.3	92.3
15°	123.0	112.2	103.1	95.9	91.4	86.9	84.1	82.3	81.4	81.4
17.5°	114.0	102.2	93.2	86.0	81.4	76.9	74.2	72.4	72.4	71.5
20°	105.0	93.2	84.1	76.9	72.4	68.8	66.0	64.2	63.3	64.2
22.5°	96.8	85.0	76.0	69.7	64.2	60.6	57.9	57.0	56.1	56.1
25°	87.8	76.9	68.8	62.4	57.9	54.3	51.6	50.7	49.8	48.9
26°	85.0	74.2	66.0	59.7	55.2	51.6	49.8	48.0	47.0	47.0
27.5°	81.4	69.7	62.4	56.1	51.6	48.9	46.1	45.2	44.3	44.3
30°	73.3	63.3	56.1	50.7	47.0	43.4	41.6	40.7	39.8	39.8
32.5°	67.0	57.0	50.7	46.1	42.5	39.8	38.0	36.2	36.2	36.2
35°	60.6	51.6	46.1	41.6	38.0	35.3	34.4	33.5	32.6	32.6
37.5°	55.2	47.0	41.6	38.0	35.3	32.6	30.8	29.9	29.9	29.9
40°	49.8	43.4	38.0	34.4	31.7	29.9	28.0	27.1	27.1	27.1
42.5°	45.2	38.9	35.3	31.7	29.0	27.1	26.2	25.3	24.4	24.4
45°	41.6	36.2	31.7	29.0	27.1	25.3	23.5	22.6	22.6	22.6
47.5°	37.1	33.5	29.0	26.2	24.4	22.6	21.7	20.8	20.8	20.8
50°	34.4	30.8	27.1	24.4	22.6	20.8	19.9	19.0	19.0	19.0
52.5°	30.8	28.0	25.3	22.6	20.8	19.0	18.1	17.2	17.2	17.2
55°	28.0	25.3	22.6	20.8	19.0	17.2	16.3	15.4	15.4	15.4
57.5°	25.3	22.6	20.8	19.0	17.2	16.3	14.5	14.5	13.6	13.6
60°	22.6	19.9	18.1	17.2	15.4	14.5	12.7	11.8	11.8	11.8
62.5°	19.0	18.1	16.3	14.5	12.7	11.8	10.9	10.0	10.0	10.0
65°	16.3	15.4	13.6	11.8	10.9	10.0	9.0	8.1	8.1	8.1
67.5°	13.6	11.8	10.9	10.0	9.0	8.1	7.2	6.3	5.4	6.3
70°	10.0	9.0	8.1	7.2	6.3	5.4	4.5	4.5	3.6	3.6
72.5°	6.3	5.4	5.4	4.5	3.6	3.6	2.7	2.7	1.8	1.8
75°	3.6	3.6	2.7	2.7	1.8	1.8	0.9	0.9	0.9	0.9
77.5°	1.8	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)