

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: P1336259

Luminaire Tested: P3A02R45B2750DE010 E3A451WMH_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R45B2750DE010 E3A451WMH_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 4000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

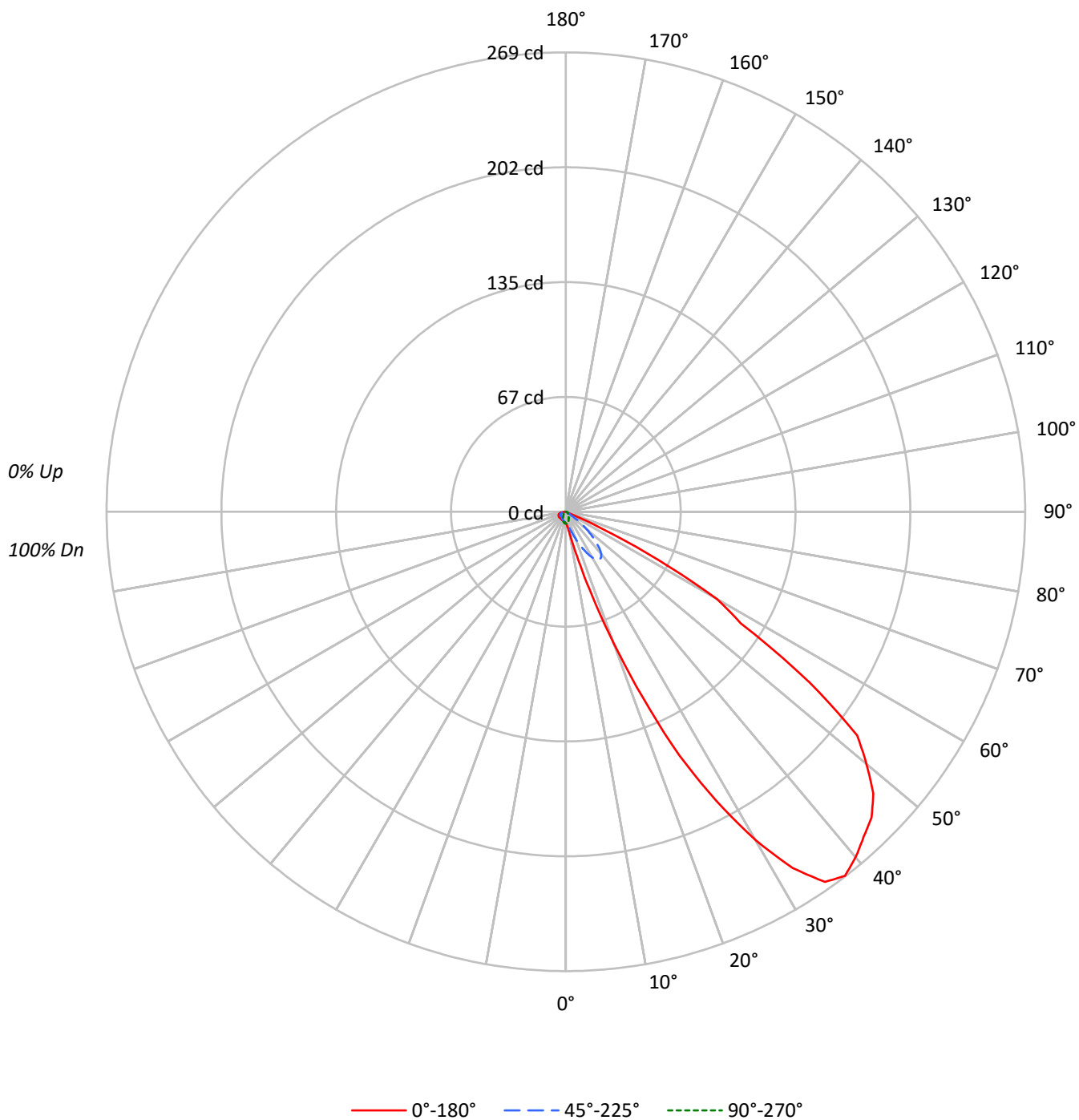
Lumens per Lamp: N/A
Luminaire Lumens: 120.1 lumens
Efficiency: N/A
Efficacy: 41.4 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.83 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 2.9
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		
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43		
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36		
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31		
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26		
9	53	39	31	25	52	39	30	25	38	30	25	36	29	24	35	29	24	22		
10	49	35	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1513	1513	1513	1513	1513
5°	1805	1673	1497	1387	1387
10°	2895	1959	1403	1314	1314
15°	7196	2633	1294	1249	1294
20°	18972	3944	1120	1190	1260
25°	38107	5831	968	1113	1234
30°	56161	7799	785	1089	1266
35°	70831	9155	669	1071	1312
40°	75570	9246	601	1116	1403
45°	78520	7722	558	1209	1520
50°	78394	5390	546	1296	1706
55°	66636	2370	573	1453	1873
60°	44777	482	570	1623	2149
65°	11882	208	571	1764	2439
70°	321	256	577	1923	2757
75°	254	254	593	2033	3135
80°	253	379	631	2147	3536
85°	252	503	1006	2264	3522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 80560 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.6
10°-20°	3.4	2.8
20°-30°	14.0	11.6
30°-40°	29.4	24.5
40°-50°	36.3	30.2
50°-60°	27.2	22.7
60°-70°	7.0	5.8
70°-80°	1.5	1.2
80°-90°	0.6	0.5
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°	18.0	15.0
0°-40°	47.5	39.5
0°-60°	111.0	92.4
0°-90°	120.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	120.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	8	8	7	6	6	1
15°	32	12	6	6	6	12
25°	158	24	4	5	5	73
35°	265	34	2	4	5	161
45°	253	25	2	4	5	194
55°	174	6	2	4	5	151
65°	23	0	1	3	5	33
75°	0	0	1	2	4	0
85°	0	0	0	1	1	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
2.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.1	6.9	6.7
5°	8.2	8.1	8.1	8.1	8.0	7.9	7.9	7.6	7.2	6.8	6.5
7.5°	9.7	9.7	9.6	9.4	9.3	9.1	8.9	8.1	7.2	6.6	6.2
10°	13.0	12.8	12.5	12.3	11.8	11.1	10.6	8.8	7.1	6.3	6.0
12.5°	19.4	19.8	18.8	17.8	16.5	15.2	13.6	10.0	7.1	6.0	5.8
15°	31.7	32.4	30.5	28.6	25.2	22.0	19.0	11.6	6.9	5.7	5.4
17.5°	51.9	52.7	49.6	44.9	39.7	33.3	27.9	13.8	6.7	5.3	5.1
20°	81.3	81.2	75.1	69.2	59.1	49.8	39.6	16.9	6.4	4.8	4.8
22.5°	117.5	117.9	110.4	99.8	85.5	70.5	54.2	20.4	6.0	4.4	4.5
25°	157.5	154.1	145.2	132.4	114.0	93.3	71.9	24.1	5.7	4.0	4.2
27.5°	190.8	187.5	177.3	162.1	142.4	117.8	89.8	27.8	5.2	3.6	3.9
30°	221.8	217.6	205.3	188.2	164.7	138.1	106.7	30.8	4.6	3.1	3.6
32.5°	247.4	243.6	229.6	209.7	184.1	155.6	121.0	33.2	4.0	2.8	3.4
35°	264.6	260.8	247.9	226.0	198.1	168.3	132.6	34.2	3.5	2.5	3.3
37.5°	268.6	266.5	257.3	236.8	207.7	176.4	140.0	33.9	2.9	2.3	3.1
40°	264.0	264.5	260.2	243.1	212.9	179.9	143.1	32.3	2.4	2.1	3.0
42.5°	258.2	259.5	259.2	245.7	215.1	180.1	141.8	29.2	1.9	1.9	2.9
45°	253.2	254.5	256.3	244.6	213.6	177.5	137.7	24.9	1.4	1.8	2.9
47.5°	244.2	245.6	248.2	235.9	206.0	170.8	130.4	20.2	1.0	1.7	2.8
50°	229.8	230.5	229.8	216.1	191.6	160.1	118.5	15.8	0.7	1.6	2.8
52.5°	215.1	213.7	207.9	190.5	168.6	143.2	103.5	11.2	0.5	1.5	2.7
55°	174.3	172.1	167.9	157.2	144.7	122.4	83.7	6.2	0.5	1.5	2.6
57.5°	121.5	122.7	124.1	122.0	116.2	96.4	63.6	2.8	0.5	1.4	2.6
60°	102.1	101.1	101.2	99.8	90.3	70.3	43.7	1.1	0.5	1.3	2.5
62.5°	61.0	61.7	63.0	63.3	53.8	39.3	22.9	0.5	0.5	1.2	2.4
65°	22.9	24.0	21.0	18.2	14.5	10.6	5.4	0.4	0.6	1.1	2.2
67.5°	0.7	0.8	1.0	0.9	0.9	0.8	0.6	0.4	0.6	1.0	2.1
70°	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.9	1.9
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.8	1.7
75°	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.7	1.4
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	1.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	1.0
82.5°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.4	0.4	0.8
85°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5
87.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3
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):

	135°	157.5°	180°
0°	6.9	6.9	6.9
2.5°	6.5	6.5	6.5
5°	6.3	6.3	6.3
7.5°	6.1	6.1	6.1
10°	5.9	5.9	5.9
12.5°	5.8	5.8	5.9
15°	5.5	5.7	5.7
17.5°	5.3	5.5	5.6
20°	5.1	5.3	5.4
22.5°	4.8	5.1	5.3
25°	4.6	5.0	5.1
27.5°	4.4	4.9	5.1
30°	4.3	4.8	5.0
32.5°	4.1	4.7	4.9
35°	4.0	4.7	4.9
37.5°	4.0	4.6	4.9
40°	3.9	4.6	4.9
42.5°	3.9	4.6	4.9
45°	3.9	4.6	4.9
47.5°	3.8	4.6	5.0
50°	3.8	4.7	5.0
52.5°	3.8	4.7	5.0
55°	3.8	4.7	4.9
57.5°	3.7	4.6	4.9
60°	3.7	4.6	4.9
62.5°	3.5	4.5	4.8
65°	3.4	4.4	4.7
67.5°	3.2	4.3	4.5
70°	3.0	4.0	4.3
72.5°	2.7	3.8	4.1
75°	2.4	3.5	3.7
77.5°	2.1	3.1	3.3
80°	1.7	2.6	2.8
82.5°	1.3	2.0	2.1
85°	0.9	1.3	1.4
87.5°	0.4	0.6	0.7
90°	0.0	0.0	0.0

(END OF REPORT)