

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: P1336257

Luminaire Tested: P3A02R45B2750DE010 E3A451WMH_3000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336257
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_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

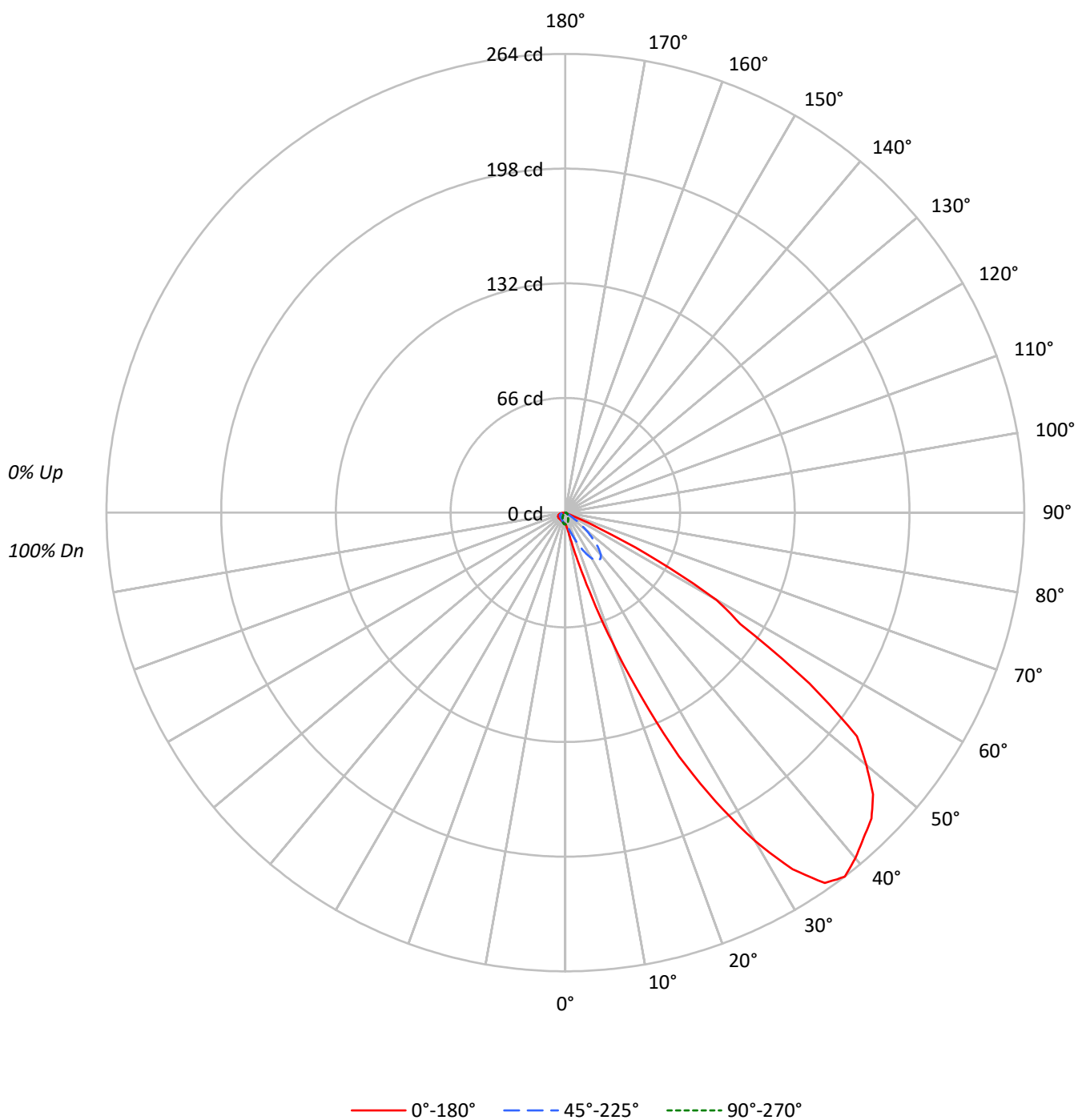
Lumens per Lamp: N/A
Luminaire Lumens: 118.0 lumens
Efficiency: N/A
Efficacy: 40.7 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.83 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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	0			
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	25	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°	1491	1491	1491	1491	1491
5°	1783	1651	1475	1365	1365
10°	2850	1937	1381	1314	1314
15°	7083	2588	1271	1226	1271
20°	18668	3874	1097	1167	1237
25°	37454	5734	944	1089	1210
30°	55224	7672	760	1063	1241
35°	69654	8994	642	1044	1285
40°	74311	9103	573	1088	1374
45°	77217	7598	558	1178	1489
50°	77098	5288	546	1262	1672
55°	65527	2332	573	1415	1835
60°	44032	482	570	1579	2105
65°	11674	208	571	1712	2387
70°	321	256	577	1859	2693
75°	254	254	593	1949	3050
80°	253	379	631	2147	3410
85°	252	503	1006	2264	3522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 79197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.6
10°-20°	3.3	2.8
20°-30°	13.7	11.6
30°-40°	28.9	24.5
40°-50°	35.7	30.2
50°-60°	26.8	22.7
60°-70°	6.9	5.8
70°-80°	1.4	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°	17.7	15.0
0°-40°	46.7	39.5
0°-60°	109.1	92.5
0°-90°	118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	118.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	8	8	7	6	6	1
15°	31	11	6	5	6	11
25°	155	24	4	4	5	72
35°	260	34	2	4	5	159
45°	249	24	2	4	5	191
55°	171	6	2	4	5	148
65°	22	0	1	3	5	32
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°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
2.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.1	7.0	6.8	6.6
5°	8.1	8.0	8.0	8.0	7.9	7.8	7.8	7.5	7.1	6.7	6.4
7.5°	9.6	9.6	9.5	9.3	9.2	9.0	8.8	8.0	7.1	6.5	6.1
10°	12.8	12.6	12.3	12.1	11.6	10.9	10.4	8.7	7.0	6.2	5.9
12.5°	19.1	19.5	18.5	17.6	16.2	14.9	13.4	9.8	7.0	5.9	5.7
15°	31.2	31.9	30.0	28.1	24.8	21.6	18.7	11.4	6.8	5.6	5.3
17.5°	51.0	51.9	48.8	44.2	39.0	32.8	27.4	13.6	6.6	5.2	5.0
20°	80.0	79.9	73.8	68.1	58.1	48.9	38.9	16.6	6.3	4.7	4.7
22.5°	115.5	115.9	108.5	98.2	84.0	69.3	53.3	20.1	5.9	4.3	4.4
25°	154.8	151.5	142.7	130.2	112.1	91.7	70.7	23.7	5.6	3.9	4.1
27.5°	187.6	184.4	174.3	159.4	140.0	115.8	88.3	27.3	5.1	3.5	3.8
30°	218.1	214.0	201.9	185.1	161.9	135.8	104.9	30.3	4.5	3.0	3.5
32.5°	243.3	239.6	225.8	206.2	181.1	153.0	119.0	32.7	3.9	2.7	3.3
35°	260.2	256.4	243.8	222.2	194.8	165.5	130.4	33.6	3.4	2.4	3.2
37.5°	264.1	262.1	253.0	232.8	204.3	173.5	137.7	33.3	2.8	2.2	3.0
40°	259.6	260.1	255.8	239.1	209.3	176.9	140.7	31.8	2.3	2.0	2.9
42.5°	253.9	255.2	254.9	241.6	211.5	177.1	139.4	28.7	1.9	1.9	2.8
45°	249.0	250.3	252.0	240.5	210.0	174.5	135.4	24.5	1.4	1.8	2.8
47.5°	240.1	241.5	244.0	232.0	202.6	168.0	128.2	19.9	1.0	1.7	2.7
50°	226.0	226.7	226.0	212.5	188.4	157.5	116.5	15.5	0.7	1.6	2.7
52.5°	211.5	210.1	204.5	187.3	165.8	140.8	101.8	11.0	0.5	1.5	2.6
55°	171.4	169.3	165.1	154.5	142.3	120.3	82.3	6.1	0.5	1.5	2.5
57.5°	119.4	120.6	122.1	119.9	114.3	94.8	62.5	2.7	0.5	1.4	2.5
60°	100.4	99.5	99.5	98.2	88.8	69.1	43.0	1.1	0.5	1.3	2.4
62.5°	60.0	60.6	61.9	62.2	52.9	38.6	22.5	0.5	0.5	1.2	2.3
65°	22.5	23.6	20.7	17.9	14.2	10.4	5.3	0.4	0.6	1.1	2.1
67.5°	0.7	0.8	1.0	0.9	0.9	0.8	0.6	0.4	0.6	1.0	2.0
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°	6.8	6.8	6.8
2.5°	6.4	6.4	6.4
5°	6.2	6.2	6.2
7.5°	6.0	6.0	6.0
10°	5.9	5.9	5.9
12.5°	5.7	5.7	5.8
15°	5.4	5.6	5.6
17.5°	5.2	5.4	5.5
20°	5.0	5.2	5.3
22.5°	4.7	5.0	5.2
25°	4.5	4.9	5.0
27.5°	4.3	4.8	5.0
30°	4.2	4.7	4.9
32.5°	4.0	4.6	4.8
35°	3.9	4.6	4.8
37.5°	3.9	4.5	4.8
40°	3.8	4.5	4.8
42.5°	3.8	4.5	4.8
45°	3.8	4.5	4.8
47.5°	3.7	4.5	4.9
50°	3.7	4.6	4.9
52.5°	3.7	4.6	4.9
55°	3.7	4.6	4.8
57.5°	3.6	4.5	4.8
60°	3.6	4.5	4.8
62.5°	3.4	4.4	4.7
65°	3.3	4.3	4.6
67.5°	3.1	4.2	4.4
70°	2.9	3.9	4.2
72.5°	2.6	3.7	4.0
75°	2.3	3.4	3.6
77.5°	2.0	3.0	3.2
80°	1.7	2.5	2.7
82.5°	1.3	2.0	2.0
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)