

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: P1336274

Luminaire Tested: P3A02R45B2750DE010 E3CA451MMS_4000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336274
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 E3CA451MMS_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 4000K CCT AND, 80CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

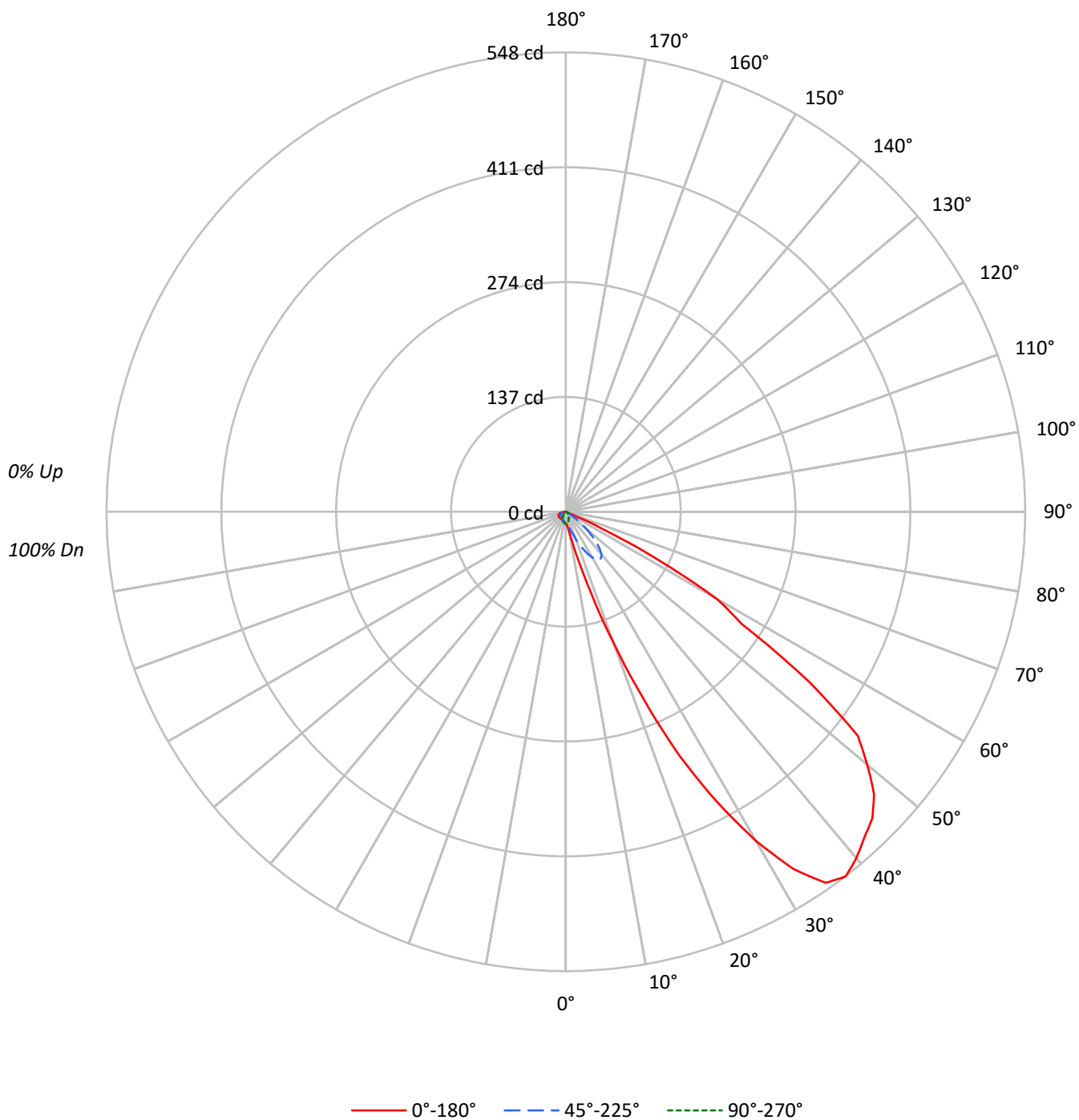
Lumens per Lamp: N/A
Luminaire Lumens: 245.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1336274

CATALOG NUMBER: P3A02R45B2750DE010 E3CA451MMS_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1336274

CATALOG NUMBER: P3A02R45B2750DE010 E3CA451MMS_4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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	58	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	36	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°	3114	3114	3114	3114	3114
5°	3698	3434	3082	2862	2862
10°	5901	4008	2895	2694	2694
15°	14711	5380	2611	2520	2611
20°	38737	8027	2264	2404	2544
25°	77787	11904	1960	2250	2492
30°	114676	15952	1595	2203	2557
35°	144634	18685	1365	2168	2650
40°	154318	18893	1231	2261	2834
45°	160327	15754	1116	2450	3070
50°	160097	10985	1092	2627	3446
55°	136062	4893	1147	2944	3785
60°	91440	965	1140	3289	4342
65°	24283	415	1141	3580	4929
70°	641	513	1154	3911	5578
75°	508	508	1186	4151	6354
80°	505	758	1263	4293	7198
85°	503	1006	2013	4529	7045

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 164463 cd/sqm

TEST NUMBER: P1336274

CATALOG NUMBER: P3A02R45B2750DE010 E3CA451MMS_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.4	0.6
10°-20°	6.9	2.8
20°-30°	28.5	11.6
30°-40°	60.1	24.5
40°-50°	74.1	30.2
50°-60°	55.5	22.7
60°-70°	14.3	5.8
70°-80°	3.0	1.2
80°-90°	1.2	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°	36.8	15.0
0°-40°	96.9	39.5
0°-60°	226.5	92.5
0°-90°	245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	245.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	17	16	14	13	13	2
15°	65	24	12	11	12	24
25°	322	49	8	9	10	150
35°	540	70	5	8	10	329
45°	517	51	4	8	10	396
55°	356	13	3	8	10	307
65°	47	1	2	7	10	67
75°	1	1	1	5	8	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1336274

CATALOG NUMBER: P3A02R45B2750DE010 E3CA451MMS_4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
2.5°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	14.8	14.6	14.2	13.8
5°	16.8	16.6	16.6	16.6	16.4	16.2	16.2	15.6	14.8	14.0	13.4
7.5°	19.8	19.8	19.6	19.2	19.0	18.6	18.2	16.6	14.8	13.6	12.8
10°	26.5	26.1	25.5	25.1	24.1	22.7	21.7	18.0	14.6	13.0	12.3
12.5°	39.7	40.5	38.5	36.4	33.6	31.0	27.7	20.4	14.6	12.3	11.7
15°	64.8	66.2	62.4	58.3	51.4	44.9	38.9	23.7	14.2	11.5	10.9
17.5°	105.9	107.7	101.2	91.7	81.0	68.0	56.9	28.1	13.8	10.7	10.3
20°	166.0	165.8	153.2	141.3	120.7	101.6	80.8	34.4	13.2	9.7	9.7
22.5°	239.9	240.7	225.3	203.9	174.5	143.9	110.7	41.7	12.3	8.9	9.1
25°	321.5	314.6	296.4	270.3	232.8	190.5	146.8	49.2	11.5	8.1	8.5
27.5°	389.5	382.8	362.0	331.0	290.7	240.5	183.4	56.7	10.5	7.3	7.9
30°	452.9	444.4	419.2	384.2	336.2	282.0	217.8	63.0	9.3	6.3	7.3
32.5°	505.1	497.4	468.8	428.2	375.9	317.6	247.0	67.8	8.1	5.7	6.9
35°	540.3	532.4	506.1	461.4	404.5	343.5	270.7	69.8	7.1	5.1	6.7
37.5°	548.4	544.2	525.3	483.4	424.1	360.1	285.8	69.2	5.9	4.7	6.3
40°	539.1	540.1	531.2	496.4	434.6	367.2	292.1	66.0	4.9	4.3	6.1
42.5°	527.1	529.8	529.2	501.6	439.1	367.6	289.5	59.5	3.8	3.8	5.9
45°	517.0	519.7	523.3	499.4	436.1	362.4	281.2	50.8	2.8	3.6	5.9
47.5°	498.6	501.4	506.7	481.6	420.7	348.8	266.2	41.3	2.0	3.4	5.7
50°	469.3	470.7	469.3	441.1	391.1	326.9	241.9	32.2	1.4	3.2	5.7
52.5°	439.1	436.3	424.5	388.9	344.1	292.3	211.3	22.9	1.0	3.0	5.5
55°	355.9	351.4	342.7	320.9	295.4	249.8	170.9	12.8	1.0	3.0	5.3
57.5°	248.0	250.4	253.5	249.0	237.3	196.8	129.8	5.7	1.0	2.8	5.3
60°	208.5	206.5	206.7	203.9	184.4	143.5	89.3	2.2	1.0	2.6	5.1
62.5°	124.5	125.9	128.5	129.2	109.9	80.2	46.8	1.0	1.0	2.4	4.9
65°	46.8	49.0	42.9	37.2	29.6	21.7	10.9	0.8	1.2	2.2	4.5
67.5°	1.4	1.6	2.0	1.8	1.8	1.6	1.2	0.8	1.2	2.0	4.3
70°	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.8	1.0	1.8	3.8
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.6	3.4
75°	0.6	0.8	0.6	0.6	0.6	0.6	0.6	0.6	1.0	1.4	2.8
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.2	2.4
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.8	1.0	2.0
82.5°	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4	0.8	0.8	1.6
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.8	1.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1336274

CATALOG NUMBER: P3A02R45B2750DE010 E3CA451MMS_4000K

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	14.2	14.2	14.2
2.5°	13.4	13.4	13.4
5°	13.0	13.0	13.0
7.5°	12.6	12.6	12.6
10°	12.1	12.1	12.1
12.5°	11.7	11.7	11.9
15°	11.1	11.5	11.5
17.5°	10.7	11.1	11.3
20°	10.3	10.7	10.9
22.5°	9.7	10.3	10.7
25°	9.3	10.1	10.3
27.5°	8.9	9.9	10.3
30°	8.7	9.7	10.1
32.5°	8.3	9.5	9.9
35°	8.1	9.5	9.9
37.5°	8.1	9.3	9.9
40°	7.9	9.3	9.9
42.5°	7.9	9.3	9.9
45°	7.9	9.3	9.9
47.5°	7.7	9.3	10.1
50°	7.7	9.5	10.1
52.5°	7.7	9.5	10.1
55°	7.7	9.5	9.9
57.5°	7.5	9.3	9.9
60°	7.5	9.3	9.9
62.5°	7.1	9.1	9.7
65°	6.9	8.9	9.5
67.5°	6.5	8.7	9.1
70°	6.1	8.1	8.7
72.5°	5.5	7.7	8.3
75°	4.9	7.1	7.5
77.5°	4.3	6.3	6.7
80°	3.4	5.3	5.7
82.5°	2.6	4.0	4.3
85°	1.8	2.6	2.8
87.5°	0.8	1.2	1.4
90°	0.0	0.0	0.0

(END OF REPORT)