

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: P1319430

Luminaire Tested: P3SQAS02R25B2750DE010 E3SQCA451MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R25B2750DE010 E3SQCA451MMS_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

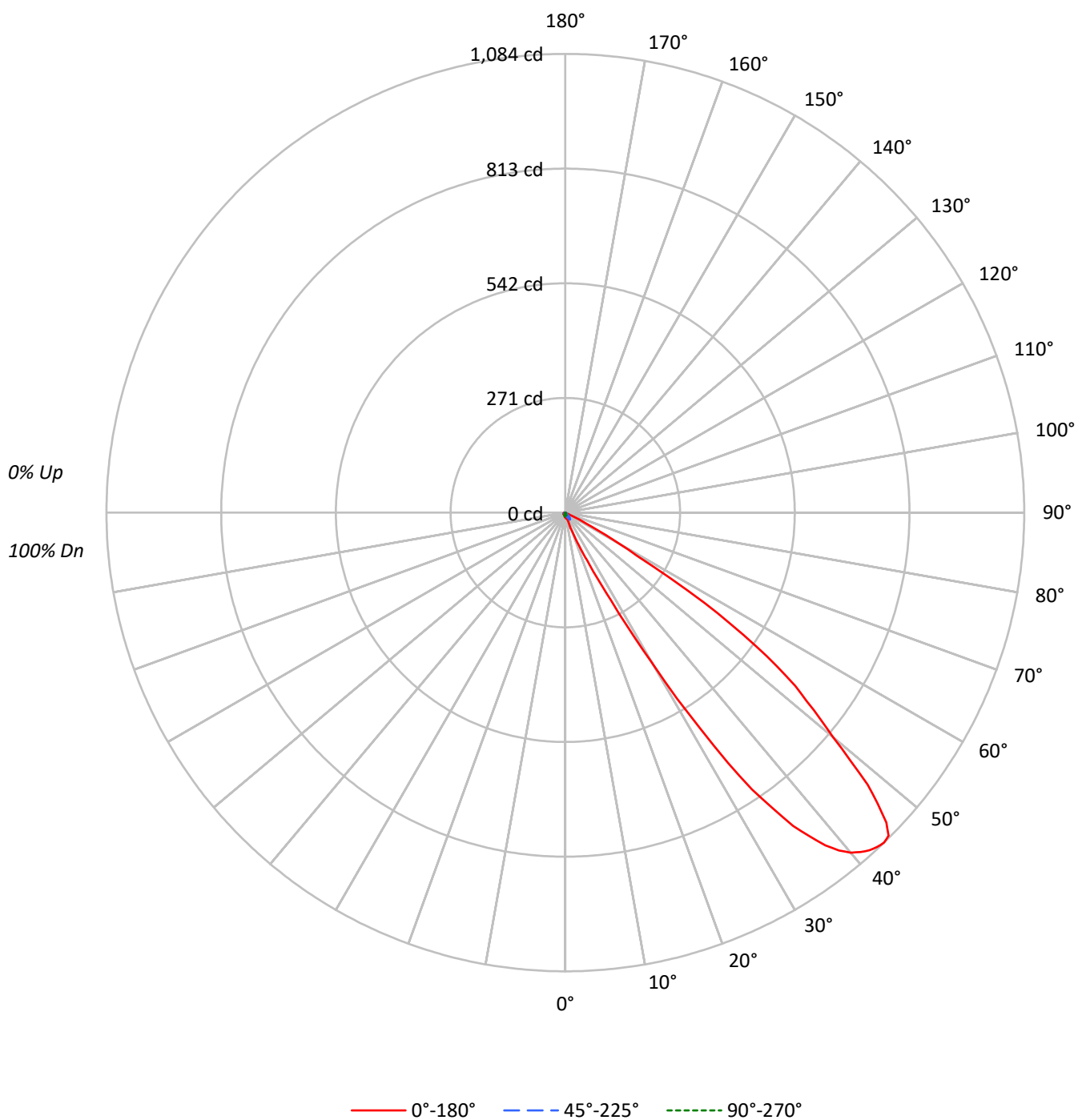
Lumens per Lamp: N/A
Luminaire Lumens: 226.1 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89	87	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73	73
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35	35
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29	29
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25	25
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21	21
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1981	1981	1981	1981	1981
5°	2265	2161	1919	1712	1677
10°	2256	2046	1626	1434	1434
15°	2514	1765	1284	1212	1284
20°	8889	1741	990	1026	1136
25°	25578	2223	798	950	1102
30°	81634	3440	636	915	1114
35°	178792	4058	547	883	1135
40°	235859	3665	450	899	1214
45°	263020	2557	438	974	1315
50°	221391	1340	429	1018	1447
55°	165534	540	420	1141	1621
60°	51253	138	413	1240	1791
65°	4360	0	489	1304	1956
70°	302	101	504	1511	2216
75°	266	133	665	1597	2529
80°	198	198	992	1785	2975
85°	395	395	1581	1976	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 263020 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	2.7	1.2
20°-30°	12.5	5.5
30°-40°	60.2	26.6
40°-50°	94.4	41.7
50°-60°	48.4	21.4
60°-70°	4.6	2.0
70°-80°	1.5	0.7
80°-90°	0.8	0.3
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°	16.2	7.2
0°-40°	76.4	33.8
0°-60°	219.2	97.0
0°-90°	226.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	226.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	13	12	11	10	10	1
15°	14	10	7	7	7	6
25°	135	12	4	5	6	84
35°	850	19	3	4	5	516
45°	1080	10	2	4	5	790
55°	551	2	1	4	5	459
65°	11	0	1	3	5	34
75°	0	0	1	2	4	0
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
2.5°	12.5	12.5	12.5	12.5	12.5	12.5	12.3	12.3	12.5	12.3	12.3
5°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.9	12.9	12.5
7.5°	13.3	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.9	12.3
10°	12.9	12.9	12.9	12.9	12.7	12.7	12.7	12.5	12.5	12.5	11.7
12.5°	12.9	12.9	12.9	12.9	12.7	12.7	12.5	12.5	12.3	12.1	10.7
15°	14.1	14.1	14.1	13.9	13.7	13.5	13.3	13.1	12.9	12.5	9.9
17.5°	20.7	20.1	19.9	19.1	18.1	17.1	16.3	15.5	14.7	14.1	9.5
20°	48.5	48.3	47.3	44.9	42.4	39.4	36.4	33.0	28.2	25.1	9.5
22.5°	84.1	82.9	81.1	79.4	74.8	69.4	63.8	57.5	51.3	44.7	10.1
25°	134.6	137.4	131.5	126.7	118.7	109.0	98.4	89.7	78.6	68.2	11.7
27.5°	234.1	235.9	224.1	208.6	190.1	169.6	149.8	134.8	116.1	99.0	14.7
30°	410.5	412.3	392.6	359.6	321.4	287.8	242.2	202.3	165.5	137.0	17.3
31°	512.3	498.4	475.5	443.5	395.2	344.5	289.8	241.4	194.9	157.5	18.1
32°	600.8	599.6	573.0	524.4	475.9	413.3	345.4	282.4	225.3	178.2	18.7
33°	705.2	697.3	659.7	613.9	549.7	486.6	399.1	327.1	256.5	201.3	19.1
34°	788.9	767.5	751.9	699.6	631.8	551.5	457.8	374.5	295.5	223.5	19.3
35°	850.4	845.8	815.6	766.9	697.9	615.7	521.1	423.6	328.1	249.4	19.3
36°	915.4	901.3	871.9	827.7	760.5	675.6	569.4	466.2	366.1	272.7	19.1
37°	956.2	947.8	918.6	873.1	807.2	726.1	623.5	511.1	396.4	295.9	18.7
38°	998.2	981.2	952.4	908.9	844.2	768.1	662.7	545.7	424.2	316.4	18.1
39°	1027.2	1009.7	980.3	936.9	873.7	798.1	693.7	575.1	448.5	331.7	17.3
40°	1049.1	1032.2	1002.3	957.8	895.3	821.8	719.5	601.2	468.7	345.0	16.3
41°	1062.6	1046.9	1017.2	972.9	910.2	835.3	736.4	618.1	482.5	354.0	15.3
42°	1073.9	1057.8	1027.6	982.2	919.4	846.8	746.8	628.8	491.8	358.6	14.5
43°	1080.3	1064.2	1034.7	988.4	925.0	852.2	752.3	633.8	495.0	358.0	13.1
44°	1083.9	1067.2	1037.5	991.2	927.4	853.6	752.7	632.8	492.8	353.2	11.9
45°	1079.9	1063.4	1034.7	988.4	923.2	849.2	748.8	627.4	484.5	343.9	10.5
46°	1054.0	1041.3	1015.1	972.5	910.1	838.1	738.6	617.1	471.5	332.3	8.9
47°	1008.5	998.4	972.9	941.3	884.8	817.6	719.9	597.4	453.4	315.0	7.2
48°	961.0	946.0	922.4	890.0	842.2	780.8	689.1	568.6	426.0	292.3	6.4
49°	890.8	882.0	861.1	824.9	785.4	731.3	645.5	531.6	392.4	267.7	5.6
50°	826.3	820.4	791.1	764.5	722.5	672.0	586.5	482.9	350.6	237.1	5.0
51°	776.0	768.8	747.8	714.6	669.8	611.1	530.6	419.6	302.7	200.7	4.0
52°	723.5	719.5	700.8	666.6	622.7	564.2	476.3	365.9	256.2	169.6	3.2
53°	680.5	674.8	651.9	621.5	574.0	513.5	417.4	316.0	217.0	142.6	2.8
54°	617.9	615.5	600.8	569.0	517.5	451.6	364.1	266.1	181.0	120.9	2.4
55°	551.3	543.3	528.4	503.2	455.8	394.4	302.5	220.6	146.4	101.8	1.8
56°	470.1	469.7	443.1	422.0	380.0	314.8	241.6	172.2	118.9	84.9	1.6
57°	392.6	380.0	354.4	333.5	288.4	238.8	179.4	129.1	93.1	68.8	1.2
58°	290.4	283.8	277.0	246.4	204.6	169.2	128.1	90.7	68.8	52.5	0.8
59°	197.1	196.9	188.9	165.7	141.6	105.4	79.9	61.7	47.3	38.6	0.6
60°	148.8	145.2	129.3	114.0	89.1	66.6	47.3	36.4	29.4	24.9	0.4
62.5°	52.1	54.1	47.5	39.4	30.0	24.7	18.9	15.3	12.5	10.1	0.0
65°	10.7	11.7	10.1	9.5	7.6	6.6	5.8	5.0	4.2	3.6	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	1.4	1.2	1.2	1.2	1.0	1.0	1.0	1.0	0.8	0.8	0.2
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2
72.5°	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	11.5	11.5	11.5	11.5	11.5	11.5
2.5°	12.1	11.7	11.1	10.9	10.7	10.7
5°	11.9	11.1	10.5	9.9	9.7	9.7
7.5°	11.3	10.3	9.5	9.1	8.9	8.8
10°	10.7	9.3	8.6	8.2	8.2	8.2
12.5°	9.5	8.4	7.6	7.4	7.6	7.6
15°	8.6	7.2	6.8	6.8	7.0	7.2
17.5°	7.4	6.4	6.0	6.2	6.4	6.6
20°	6.6	5.4	5.4	5.6	6.2	6.2
22.5°	5.8	4.8	4.8	5.4	5.8	6.0
25°	5.2	4.2	4.4	5.0	5.6	5.8
27.5°	4.4	3.6	4.0	4.8	5.4	5.6
30°	3.8	3.2	3.8	4.6	5.2	5.6
31°	3.6	3.0	3.8	4.4	5.2	5.6
32°	3.2	3.0	3.6	4.4	5.2	5.4
33°	3.0	2.8	3.6	4.4	5.2	5.4
34°	2.8	2.6	3.4	4.4	5.2	5.4
35°	2.4	2.6	3.4	4.2	5.0	5.4
36°	2.2	2.4	3.4	4.2	5.0	5.4
37°	2.0	2.4	3.2	4.2	5.0	5.4
38°	1.8	2.2	3.2	4.2	5.0	5.4
39°	1.6	2.2	3.0	4.2	5.0	5.4
40°	1.4	2.0	3.0	4.0	5.0	5.4
41°	1.4	2.0	3.0	4.0	5.0	5.4
42°	1.2	2.0	3.0	4.0	5.0	5.4
43°	1.0	1.8	3.0	4.0	5.0	5.4
44°	0.8	1.8	2.8	4.0	5.0	5.4
45°	0.8	1.8	2.8	4.0	5.0	5.4
46°	0.6	1.6	2.8	4.0	5.0	5.4
47°	0.4	1.6	2.8	3.8	5.0	5.4
48°	0.4	1.6	2.8	3.8	5.0	5.4
49°	0.4	1.6	2.6	3.8	5.0	5.4
50°	0.4	1.6	2.6	3.8	5.0	5.4
51°	0.2	1.4	2.6	3.8	5.0	5.4
52°	0.2	1.4	2.6	3.8	5.0	5.6
53°	0.2	1.4	2.6	3.8	5.0	5.4
54°	0.2	1.4	2.4	3.8	5.0	5.4
55°	0.2	1.4	2.4	3.8	5.0	5.4
56°	0.2	1.2	2.4	3.6	5.0	5.4
57°	0.4	1.2	2.4	3.6	5.0	5.2
58°	0.4	1.2	2.4	3.6	4.8	5.2
59°	0.4	1.2	2.4	3.6	4.8	5.2
60°	0.4	1.2	2.2	3.6	4.8	5.2
62.5°	0.4	1.2	2.2	3.4	4.6	5.0
65°	0.4	1.2	2.0	3.2	4.6	4.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.0	2.0	3.0	4.4	4.6
70°	0.6	1.0	1.8	3.0	4.2	4.4
72.5°	0.6	1.0	1.8	2.6	3.8	4.2
75°	0.6	1.0	1.6	2.4	3.6	3.8
77.5°	0.6	1.0	1.4	2.2	3.2	3.4
80°	0.8	1.0	1.2	1.8	2.8	3.0
82.5°	0.8	1.0	1.0	1.4	2.2	2.4
85°	0.6	0.8	0.8	1.0	1.4	1.6
87.5°	0.6	0.8	0.6	0.4	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)