

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: P1319427

Luminaire Tested: P3SQAS02R25B2750DE010 E3SQCA451MB_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319427
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 E3SQCA451MB_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 4000K CCT AND, 80CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

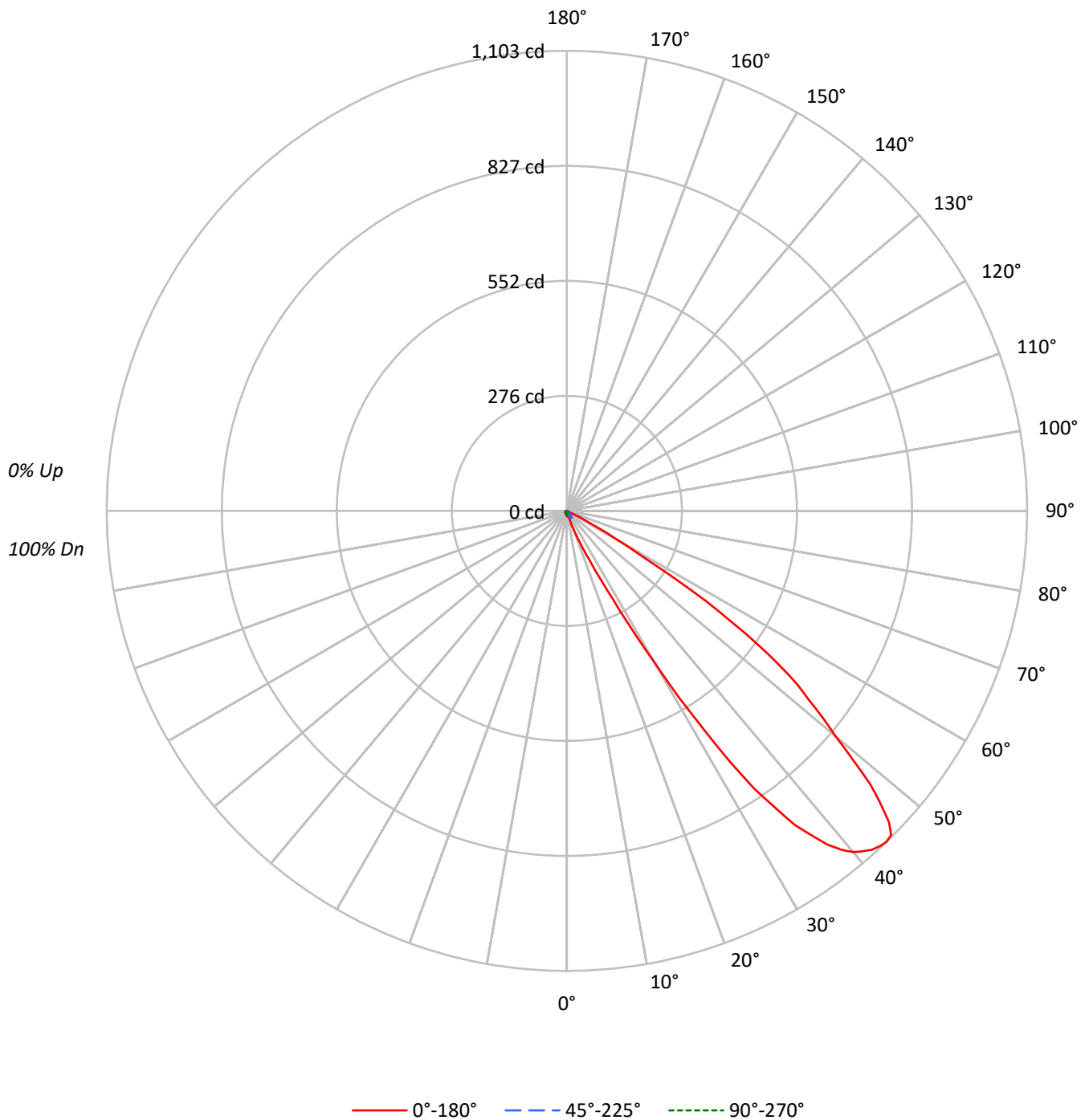
Lumens per Lamp: N/A
Luminaire Lumens: 230.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2015	2015	2015	2015	2015
5°	2317	2213	1954	1746	1712
10°	2308	2081	1661	1451	1451
15°	2567	1801	1302	1230	1302
20°	9054	1778	1008	1045	1155
25°	26034	2261	817	969	1121
30°	83066	3500	636	935	1134
35°	181946	4121	547	904	1156
40°	240019	3732	450	899	1237
45°	267672	2606	438	974	1340
50°	225303	1366	429	1018	1474
55°	168446	540	420	1141	1651
60°	52149	138	413	1240	1826
65°	4442	0	489	1304	1997
70°	302	101	504	1511	2266
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: 267672 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	2.7	1.2
20°-30°	12.7	5.5
30°-40°	61.3	26.6
40°-50°	96.0	41.8
50°-60°	49.2	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°	16.5	7.2
0°-40°	77.8	33.8
0°-60°	223.0	97.0
0°-90°	230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	230.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	13	13	11	10	10	1
15°	14	10	7	7	7	6
25°	137	12	4	5	6	85
35°	865	20	3	4	6	525
45°	1099	11	2	4	6	804
55°	561	2	1	4	6	467
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°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.5	12.5	12.8	12.5	12.5
5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.2	13.2	13.2	12.8
7.5°	13.6	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.2	13.2	12.5
10°	13.2	13.2	13.2	13.2	13.0	13.0	13.0	12.8	12.8	12.8	11.9
12.5°	13.2	13.2	13.2	13.2	13.0	13.0	12.8	12.8	12.5	12.3	10.9
15°	14.4	14.4	14.4	14.2	14.0	13.8	13.6	13.4	13.2	12.8	10.1
17.5°	21.0	20.4	20.2	19.4	18.4	17.4	16.6	15.8	15.0	14.4	9.7
20°	49.4	49.2	48.2	45.7	43.1	40.1	37.0	33.6	28.7	25.5	9.7
22.5°	85.6	84.4	82.6	80.8	76.1	70.6	65.0	58.5	52.2	45.5	10.3
25°	137.0	139.9	133.8	128.9	120.8	110.9	100.2	91.3	79.9	69.4	11.9
27.5°	238.2	240.0	228.1	212.3	193.5	172.6	152.4	137.2	118.2	100.8	15.0
30°	417.7	419.6	399.5	365.9	327.1	292.9	246.5	205.8	168.4	139.4	17.6
31°	521.4	507.2	483.9	451.3	402.2	350.5	294.9	245.7	198.3	160.3	18.4
32°	611.4	610.2	583.1	533.7	484.3	420.6	351.6	287.4	229.3	181.3	19.0
33°	717.7	709.6	671.3	624.8	559.4	495.3	406.2	332.9	261.1	204.8	19.4
34°	802.9	781.0	765.3	712.0	643.0	561.2	465.9	381.1	300.8	227.5	19.6
35°	865.4	860.8	830.0	780.4	710.2	626.6	530.3	431.1	334.0	253.8	19.6
36°	931.6	917.3	887.3	842.4	774.0	687.5	579.5	474.4	372.6	277.5	19.4
37°	973.1	964.6	934.9	888.5	821.5	738.9	634.5	520.2	403.4	301.2	19.0
38°	1015.8	998.6	969.3	924.9	859.2	781.6	674.4	555.4	431.7	322.0	18.4
39°	1045.4	1027.6	997.6	953.5	889.1	812.2	706.0	585.3	456.4	337.6	17.6
40°	1067.6	1050.4	1020.1	974.7	911.2	836.3	732.3	611.8	477.0	351.2	16.6
41°	1081.4	1065.4	1035.2	990.1	926.4	850.1	749.5	629.0	491.0	360.3	15.6
42°	1092.9	1076.5	1045.8	999.6	935.7	861.8	760.0	640.0	500.5	364.9	14.8
43°	1099.4	1083.0	1053.1	1005.9	941.3	867.3	765.7	645.0	503.8	364.3	13.4
44°	1103.1	1086.0	1055.9	1008.7	943.8	868.7	766.1	644.0	501.5	359.5	12.1
45°	1099.0	1082.2	1053.1	1005.9	939.5	864.2	762.0	638.6	493.0	349.9	10.7
46°	1072.7	1059.7	1033.0	989.7	926.2	852.9	751.7	628.0	479.9	338.2	9.1
47°	1026.3	1016.0	990.1	957.9	900.5	832.0	732.7	608.0	461.5	320.6	7.3
48°	978.0	962.8	938.7	905.7	857.1	794.6	701.3	578.6	433.5	297.5	6.5
49°	906.5	897.6	876.4	839.5	799.3	744.2	657.0	541.0	399.3	272.4	5.7
50°	840.9	834.9	805.1	778.0	735.3	683.9	596.9	491.4	356.8	241.3	5.1
51°	789.7	782.5	761.0	727.2	681.7	622.0	540.0	427.1	308.0	204.2	4.0
52°	736.3	732.3	713.2	678.4	633.7	574.2	484.7	372.4	260.7	172.6	3.2
53°	692.6	686.7	663.4	632.5	584.1	522.6	424.8	321.6	220.8	145.1	2.8
54°	628.8	626.4	611.4	579.1	526.6	459.6	370.6	270.8	184.2	123.1	2.4
55°	561.0	552.9	537.8	512.1	463.9	401.3	307.8	224.5	149.0	103.6	1.8
56°	478.5	478.1	450.9	429.5	386.8	320.4	245.9	175.3	121.0	86.4	1.6
57°	399.5	386.8	360.7	339.4	293.5	243.1	182.6	131.4	94.7	70.0	1.2
58°	295.5	288.8	281.9	250.8	208.3	172.2	130.3	92.3	70.0	53.4	0.8
59°	200.6	200.4	192.3	168.6	144.1	107.3	81.4	62.7	48.2	39.3	0.6
60°	151.4	147.7	131.6	116.0	90.7	67.8	48.2	37.0	30.0	25.3	0.4
62.5°	53.0	55.1	48.4	40.1	30.6	25.1	19.2	15.6	12.8	10.3	0.0
65°	10.9	11.9	10.3	9.7	7.7	6.7	5.9	5.1	4.3	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°	11.7	11.7	11.7	11.7	11.7	11.7
2.5°	12.3	11.9	11.3	11.1	10.9	10.9
5°	12.1	11.3	10.7	10.1	9.9	9.9
7.5°	11.5	10.5	9.7	9.3	9.1	8.9
10°	10.9	9.5	8.7	8.3	8.3	8.3
12.5°	9.7	8.5	7.7	7.5	7.7	7.7
15°	8.7	7.3	6.9	6.9	7.1	7.3
17.5°	7.5	6.5	6.1	6.3	6.5	6.7
20°	6.7	5.5	5.5	5.7	6.3	6.3
22.5°	5.9	4.9	4.9	5.5	5.9	6.1
25°	5.3	4.3	4.5	5.1	5.7	5.9
27.5°	4.5	3.6	4.0	4.9	5.5	5.7
30°	3.8	3.2	3.8	4.7	5.3	5.7
31°	3.6	3.0	3.8	4.5	5.3	5.7
32°	3.2	3.0	3.6	4.5	5.3	5.5
33°	3.0	2.8	3.6	4.5	5.3	5.5
34°	2.8	2.6	3.4	4.5	5.3	5.5
35°	2.4	2.6	3.4	4.3	5.1	5.5
36°	2.2	2.4	3.4	4.3	5.1	5.5
37°	2.0	2.4	3.2	4.3	5.1	5.5
38°	1.8	2.2	3.2	4.3	5.1	5.5
39°	1.6	2.2	3.0	4.3	5.1	5.5
40°	1.4	2.0	3.0	4.0	5.1	5.5
41°	1.4	2.0	3.0	4.0	5.1	5.5
42°	1.2	2.0	3.0	4.0	5.1	5.5
43°	1.0	1.8	3.0	4.0	5.1	5.5
44°	0.8	1.8	2.8	4.0	5.1	5.5
45°	0.8	1.8	2.8	4.0	5.1	5.5
46°	0.6	1.6	2.8	4.0	5.1	5.5
47°	0.4	1.6	2.8	3.8	5.1	5.5
48°	0.4	1.6	2.8	3.8	5.1	5.5
49°	0.4	1.6	2.6	3.8	5.1	5.5
50°	0.4	1.6	2.6	3.8	5.1	5.5
51°	0.2	1.4	2.6	3.8	5.1	5.5
52°	0.2	1.4	2.6	3.8	5.1	5.7
53°	0.2	1.4	2.6	3.8	5.1	5.5
54°	0.2	1.4	2.4	3.8	5.1	5.5
55°	0.2	1.4	2.4	3.8	5.1	5.5
56°	0.2	1.2	2.4	3.6	5.1	5.5
57°	0.4	1.2	2.4	3.6	5.1	5.3
58°	0.4	1.2	2.4	3.6	4.9	5.3
59°	0.4	1.2	2.4	3.6	4.9	5.3
60°	0.4	1.2	2.2	3.6	4.9	5.3
62.5°	0.4	1.2	2.2	3.4	4.7	5.1
65°	0.4	1.2	2.0	3.2	4.7	4.9



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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	4.5	4.7
70°	0.6	1.0	1.8	3.0	4.3	4.5
72.5°	0.6	1.0	1.8	2.6	3.8	4.3
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)