

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: P1319434

Luminaire Tested: P3SQAS02R25B2750DE010 E3SQCA451MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319434
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 E3SQCA451MW_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

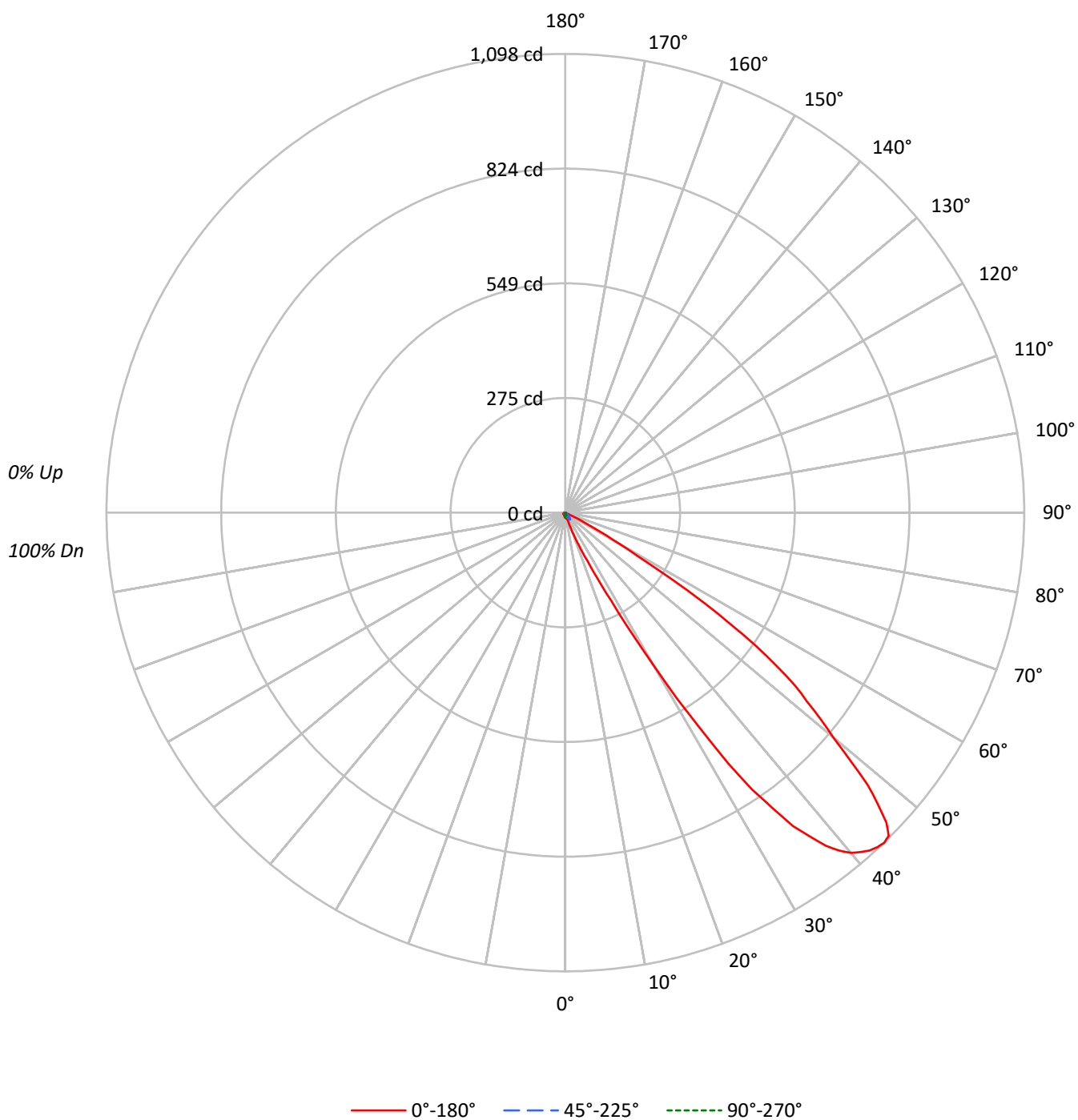
Lumens per Lamp: N/A
Luminaire Lumens: 228.9 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1319434

CATALOG NUMBER: P3SQAS02R25B2750DE010 E3SQCA451MW_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1319434

CATALOG NUMBER: P3SQAS02R25B2750DE010 E3SQCA451MW_2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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	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°	2299	2196	1954	1746	1712
10°	2291	2081	1661	1451	1451
15°	2550	1801	1302	1230	1302
20°	9017	1778	990	1026	1136
25°	25920	2261	798	950	1102
30°	82708	3480	636	915	1114
35°	181168	4100	547	883	1135
40°	238984	3710	450	899	1214
45°	266503	2606	438	974	1315
50°	224339	1340	429	1018	1447
55°	167726	540	420	1141	1621
60°	51908	138	413	1240	1791
65°	4442	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: 266503 cd/sqm

TEST NUMBER: P1319434

CATALOG NUMBER: P3SQAS02R25B2750DE010 E3SQCA451MW_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	2.7	1.2
20°-30°	12.7	5.5
30°-40°	61.0	26.6
40°-50°	95.6	41.8
50°-60°	49.0	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°	16.4	7.2
0°-40°	77.4	33.8
0°-60°	222.0	97.0
0°-90°	228.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	228.9	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°	136	12	4	5	6	85
35°	862	20	3	4	5	523
45°	1094	11	2	4	5	801
55°	559	2	1	4	5	465
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	

TEST NUMBER: P1319434

CATALOG NUMBER: P3SQAS02R25B2750DE010 E3SQCA451MW_2700K

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°	12.7	12.7	12.7	12.7	12.7	12.7	12.5	12.5	12.7	12.5	12.5
5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.1	13.1	13.1	12.7
7.5°	13.5	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.1	13.1	12.5
10°	13.1	13.1	13.1	13.1	12.9	12.9	12.9	12.7	12.7	12.7	11.9
12.5°	13.1	13.1	13.1	13.1	12.9	12.9	12.7	12.7	12.5	12.3	10.9
15°	14.3	14.3	14.3	14.1	13.9	13.7	13.5	13.3	13.1	12.7	10.1
17.5°	21.0	20.4	20.2	19.3	18.3	17.3	16.5	15.7	14.9	14.3	9.7
20°	49.2	49.0	48.0	45.5	42.9	39.9	36.9	33.5	28.6	25.4	9.7
22.5°	85.2	84.0	82.2	80.4	75.8	70.3	64.7	58.2	52.0	45.3	10.3
25°	136.4	139.2	133.2	128.4	120.3	110.4	99.7	90.9	79.6	69.1	11.9
27.5°	237.2	239.0	227.1	211.4	192.6	171.9	151.7	136.6	117.7	100.4	14.9
30°	415.9	417.7	397.8	364.3	325.6	291.6	245.4	204.9	167.7	138.8	17.5
31°	519.1	505.0	481.8	449.4	400.4	349.0	293.6	244.6	197.5	159.6	18.3
32°	608.8	607.6	580.6	531.4	482.2	418.7	350.0	286.2	228.3	180.6	18.9
33°	714.6	706.5	668.4	622.1	557.0	493.1	404.4	331.5	260.0	203.9	19.3
34°	799.4	777.6	761.9	708.9	640.2	558.8	463.9	379.5	299.5	226.5	19.5
35°	861.7	857.0	826.4	777.0	707.1	623.9	528.0	429.2	332.5	252.7	19.5
36°	927.6	913.3	883.4	838.7	770.6	684.5	576.9	472.4	371.0	276.3	19.3
37°	968.9	960.4	930.8	884.6	817.9	735.7	631.7	517.9	401.6	299.9	18.9
38°	1011.4	994.3	965.1	920.9	855.4	778.2	671.4	553.0	429.8	320.6	18.3
39°	1040.8	1023.1	993.3	949.3	885.3	808.7	702.9	582.8	454.4	336.1	17.5
40°	1063.0	1045.9	1015.6	970.5	907.2	832.7	729.1	609.2	475.0	349.6	16.5
41°	1076.7	1060.8	1030.7	985.8	922.3	846.4	746.2	626.3	488.9	358.7	15.5
42°	1088.2	1071.9	1041.2	995.3	931.6	858.0	756.7	637.2	498.3	363.3	14.7
43°	1094.6	1078.3	1048.5	1001.5	937.2	863.5	762.3	642.2	501.6	362.7	13.3
44°	1098.3	1081.3	1051.3	1004.3	939.7	864.9	762.7	641.2	499.4	357.9	12.1
45°	1094.2	1077.5	1048.5	1001.5	935.4	860.5	758.7	635.8	490.9	348.4	10.7
46°	1068.0	1055.1	1028.5	985.4	922.1	849.2	748.4	625.3	477.8	336.7	9.1
47°	1021.9	1011.6	985.8	953.8	896.5	828.4	729.5	605.3	459.5	319.2	7.3
48°	973.7	958.6	934.6	901.8	853.4	791.1	698.2	576.1	431.6	296.2	6.4
49°	902.6	893.7	872.6	835.9	795.8	741.0	654.1	538.6	397.6	271.2	5.6
50°	837.3	831.2	801.6	774.6	732.1	680.9	594.3	489.3	355.3	240.2	5.0
51°	786.3	779.1	757.7	724.0	678.7	619.3	537.6	425.2	306.7	203.3	4.0
52°	733.1	729.1	710.1	675.5	630.9	571.7	482.6	370.8	259.6	171.9	3.2
53°	689.6	683.7	660.6	629.7	581.6	520.3	423.0	320.2	219.9	144.5	2.8
54°	626.1	623.7	608.8	576.5	524.3	457.6	369.0	269.6	183.4	122.5	2.4
55°	558.6	550.5	535.4	509.8	461.9	399.6	306.5	223.5	148.3	103.2	1.8
56°	476.4	476.0	449.0	427.6	385.1	319.0	244.8	174.5	120.5	86.0	1.6
57°	397.8	385.1	359.1	337.9	292.2	242.0	181.8	130.8	94.3	69.7	1.2
58°	294.2	287.6	280.7	249.7	207.4	171.5	129.8	91.9	69.7	53.2	0.8
59°	199.7	199.5	191.4	167.9	143.5	106.8	81.0	62.5	48.0	39.1	0.6
60°	150.7	147.1	131.0	115.5	90.3	67.5	48.0	36.9	29.8	25.2	0.4
62.5°	52.8	54.8	48.2	39.9	30.4	25.0	19.1	15.5	12.7	10.3	0.0
65°	10.9	11.9	10.3	9.7	7.7	6.6	5.8	5.0	4.2	3.6	0.0



TEST NUMBER: P1319434

CATALOG NUMBER: P3SQAS02R25B2750DE010 E3SQCA451MW_2700K

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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CATALOG NUMBER: P3SQAS02R25B2750DE010 E3SQCA451MW_2700K

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	6.4	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



TEST NUMBER: P1319434

CATALOG NUMBER: P3SQAS02R25B2750DE010 E3SQCA451MW_2700K

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)