

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: P1318121

Luminaire Tested: P3SQAS17R259835DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318121
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: P3SQAS17R259835DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

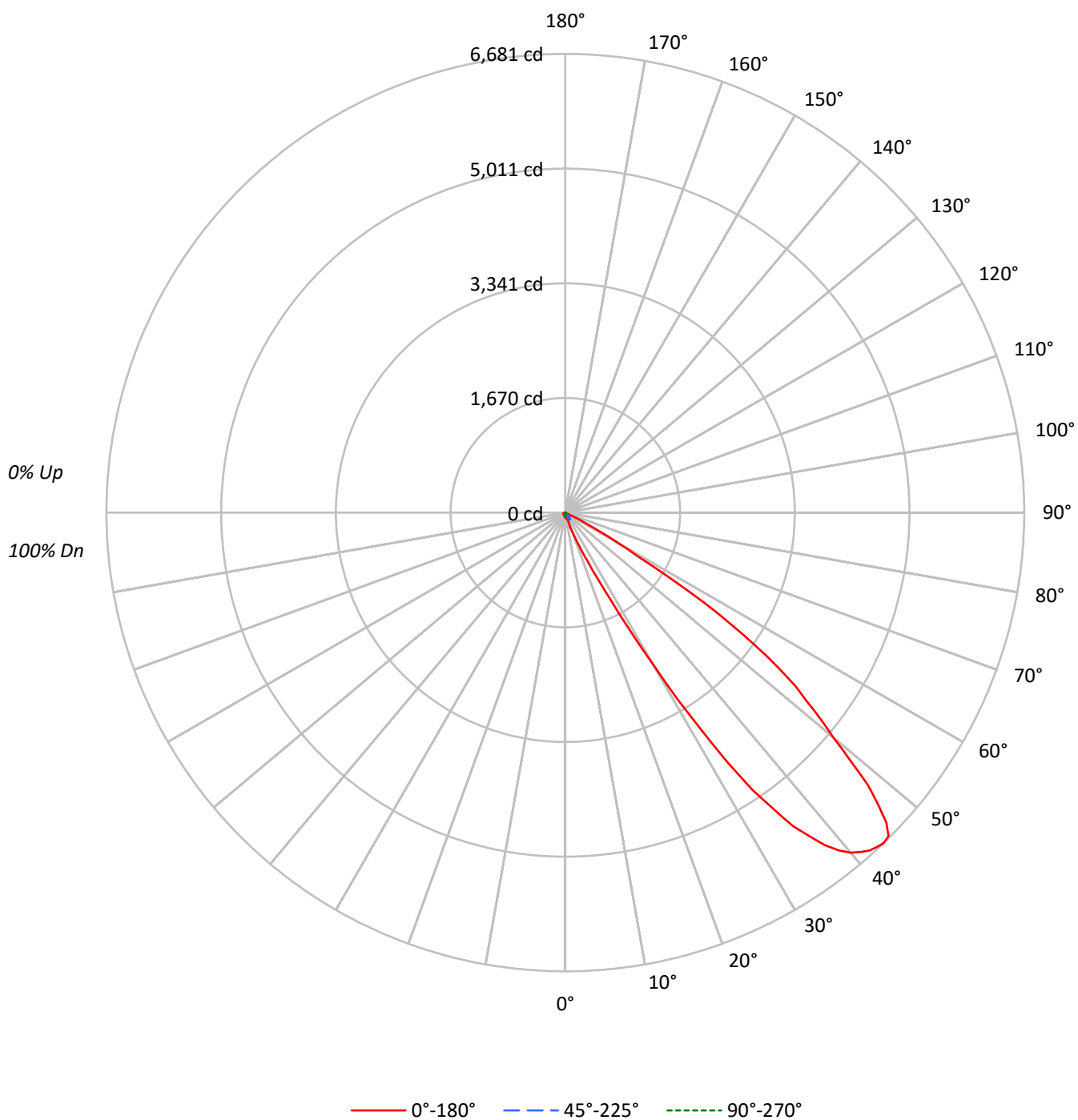
Lumens per Lamp: N/A
Luminaire Lumens: 1393.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1318121

CATALOG NUMBER: P3SQAS17R259835DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1318121

CATALOG NUMBER: P3SQAS17R259835DE010 E3SQCA451MMS

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	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°	12245	12245	12245	12245	12245
5°	13986	13346	11860	10598	10390
10°	13938	12644	10073	8796	8796
15°	15512	10930	7863	7435	7863
20°	54818	10777	6066	6286	6964
25°	157703	13739	4884	5815	6746
30°	503150	21199	3898	5608	6821
35°	1102020	24998	3343	5403	6959
40°	1453713	22594	2765	5508	7442
45°	1621157	15831	2679	5967	8062
50°	1364625	8199	2626	6243	8869
55°	1020257	3303	2582	6996	9939
60°	315822	861	2549	7612	10988
65°	26977	0	3016	7987	11981
70°	1863	604	3072	9265	13596
75°	1664	799	4059	9782	15504
80°	1190	1190	6050	10910	18249
85°	2371	2371	9683	12054	19365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1621157 cd/sqm

TEST NUMBER: P1318121

CATALOG NUMBER: P3SQAS17R259835DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.5
10°-20°	16.4	1.2
20°-30°	77.1	5.5
30°-40°	371.0	26.6
40°-50°	581.6	41.8
50°-60°	298.2	21.4
60°-70°	28.1	2.0
70°-80°	9.5	0.7
80°-90°	4.7	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°	99.9	7.2
0°-40°	470.9	33.8
0°-60°	1350.7	97.0
0°-90°	1393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1393.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	71	71	71	71	71	
5°	81	77	69	61	60	8
15°	87	61	44	42	44	37
25°	830	72	26	31	36	515
35°	5242	119	16	26	33	3182
45°	6656	65	11	24	33	4870
55°	3398	11	9	23	33	2829
65°	66	0	7	20	29	207
75°	2	1	6	15	23	3
85°	1	1	5	6	10	1
90°	0	0	0	0	0	

TEST NUMBER: P1318121

CATALOG NUMBER: P3SQAS17R259835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
2.5°	77.2	77.2	77.2	77.2	77.2	77.2	76.0	76.0	77.2	76.0	76.0
5°	80.9	80.9	80.9	80.9	80.9	80.9	80.9	79.7	79.7	79.7	77.2
7.5°	82.1	80.9	80.9	80.9	80.9	80.9	80.9	80.9	79.7	79.7	76.0
10°	79.7	79.7	79.7	79.7	78.5	78.5	78.5	77.2	77.2	77.2	72.3
12.5°	79.7	79.7	79.7	79.7	78.5	78.5	77.2	77.2	76.0	74.8	66.2
15°	87.0	87.0	87.0	85.8	84.6	83.4	82.1	80.9	79.7	77.2	61.3
17.5°	127.5	123.8	122.6	117.7	111.5	105.4	100.5	95.6	90.7	87.0	58.8
20°	299.1	297.9	291.7	277.0	261.1	242.7	224.3	203.5	174.1	154.5	58.8
22.5°	518.5	511.2	500.1	489.1	460.9	427.8	393.5	354.3	316.3	275.8	62.5
25°	829.9	847.0	810.3	780.8	731.8	671.7	606.8	552.8	484.2	420.5	72.3
27.5°	1442.8	1453.8	1381.5	1285.9	1171.9	1045.6	923.0	831.1	715.9	610.5	90.7
30°	2530.1	2541.1	2419.7	2216.3	1980.9	1773.7	1493.0	1246.6	1019.9	844.6	106.6
31°	3157.7	3071.9	2930.9	2733.6	2435.7	2123.1	1786.0	1488.1	1201.3	970.8	111.5
32°	3703.2	3695.8	3531.6	3232.5	2933.4	2547.2	2129.2	1740.6	1388.8	1098.3	115.2
33°	4346.7	4297.7	4066.0	3784.1	3388.1	2999.6	2460.2	2016.5	1581.3	1240.5	117.7
34°	4862.8	4730.4	4634.8	4312.4	3894.4	3399.2	2821.8	2308.2	1821.5	1377.8	118.9
35°	5241.6	5213.4	5027.0	4726.7	4301.4	3795.1	3211.6	2611.0	2022.6	1537.2	118.9
36°	5642.4	5555.4	5373.9	5101.8	4687.5	4164.1	3509.5	2873.3	2256.7	1680.6	117.7
37°	5893.7	5842.2	5662.0	5381.3	4975.6	4475.4	3842.9	3150.3	2443.0	1824.0	115.2
38°	6152.3	6048.1	5870.4	5601.9	5203.6	4734.1	4084.4	3363.6	2614.6	1950.3	111.5
39°	6331.3	6223.4	6042.0	5774.8	5385.0	4919.2	4275.6	3545.0	2764.2	2044.6	106.6
40°	6466.1	6361.9	6178.1	5903.5	5518.6	5065.0	4435.0	3705.6	2889.2	2126.8	100.5
41°	6549.5	6452.6	6270.0	5996.6	5610.5	5148.4	4539.2	3809.8	2973.8	2181.9	94.4
42°	6619.4	6520.1	6333.7	6054.3	5666.9	5219.5	4602.9	3876.0	3031.4	2210.1	89.5
43°	6658.6	6559.3	6377.9	6092.3	5701.2	5252.6	4637.2	3906.6	3051.0	2206.5	80.9
44°	6680.6	6577.7	6395.0	6109.4	5715.9	5261.2	4639.7	3900.5	3037.6	2177.0	73.5
45°	6656.1	6554.4	6377.9	6092.3	5690.2	5234.2	4615.2	3867.4	2986.1	2119.4	65.0
46°	6496.8	6418.3	6256.5	5994.2	5609.3	5165.6	4552.6	3803.7	2906.4	2048.3	55.2
47°	6216.1	6153.6	5996.6	5801.7	5453.6	5039.3	4437.4	3682.3	2794.8	1941.7	44.1
48°	5923.1	5831.2	5685.3	5485.5	5191.3	4812.5	4247.4	3504.6	2625.7	1801.9	39.2
49°	5490.4	5436.5	5307.7	5084.6	4840.7	4507.3	3979.0	3276.6	2418.5	1649.9	34.3
50°	5093.2	5056.5	4876.3	4712.0	4453.4	4142.0	3614.9	2976.3	2161.1	1461.2	30.6
51°	4783.1	4739.0	4609.0	4404.3	4128.5	3766.9	3270.5	2586.5	1865.7	1236.8	24.5
52°	4459.5	4435.0	4319.7	4108.9	3838.0	3477.6	2935.8	2255.5	1578.8	1045.6	19.6
53°	4194.7	4159.2	4018.2	3830.6	3537.7	3165.0	2573.0	1947.8	1337.4	878.9	17.2
54°	3808.6	3793.9	3703.2	3507.0	3189.6	2783.8	2244.5	1640.1	1115.5	745.3	14.7
55°	3397.9	3348.9	3257.0	3101.3	2809.6	2430.8	1864.5	1359.4	902.2	627.6	11.0
56°	2897.8	2895.4	2731.1	2601.2	2342.5	1940.5	1489.4	1061.5	733.0	523.4	9.8
57°	2419.7	2342.5	2184.4	2055.7	1777.4	1472.2	1105.7	795.5	573.7	424.1	7.4
58°	1789.7	1749.2	1707.5	1518.8	1261.4	1043.2	789.4	559.0	424.1	323.6	4.9
59°	1214.8	1213.5	1164.5	1021.1	872.8	649.7	492.8	380.0	291.7	237.8	3.7
60°	916.9	894.8	796.8	702.4	549.2	410.6	291.7	224.3	181.4	153.2	2.5
62.5°	321.2	333.4	293.0	242.7	185.1	152.0	116.5	94.4	77.2	62.5	0.0
65°	66.2	72.3	62.5	58.8	46.6	40.5	35.5	30.6	25.7	22.1	0.0



TEST NUMBER: P1318121

CATALOG NUMBER: P3SQAS17R259835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	8.6	7.4	7.4	7.4	6.1	6.1	6.1	6.1	4.9	4.9	1.2
70°	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5	2.5	2.5	1.2
72.5°	3.7	3.7	3.7	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5
85°	1.2	1.2	1.2	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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: P1318121

CATALOG NUMBER: P3SQAS17R259835DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	71.1	71.1	71.1	71.1	71.1	71.1
2.5°	74.8	72.3	68.6	67.4	66.2	66.2
5°	73.5	68.6	65.0	61.3	60.1	60.1
7.5°	69.9	63.7	58.8	56.4	55.2	53.9
10°	66.2	57.6	52.7	50.3	50.3	50.3
12.5°	58.8	51.5	46.6	45.4	46.6	46.6
15°	52.7	44.1	41.7	41.7	42.9	44.1
17.5°	45.4	39.2	36.8	38.0	39.2	40.5
20°	40.5	33.1	33.1	34.3	38.0	38.0
22.5°	35.5	29.4	29.4	33.1	35.5	36.8
25°	31.9	25.7	27.0	30.6	34.3	35.5
27.5°	27.0	22.1	24.5	29.4	33.1	34.3
30°	23.3	19.6	23.3	28.2	31.9	34.3
31°	22.1	18.4	23.3	27.0	31.9	34.3
32°	19.6	18.4	22.1	27.0	31.9	33.1
33°	18.4	17.2	22.1	27.0	31.9	33.1
34°	17.2	15.9	20.8	27.0	31.9	33.1
35°	14.7	15.9	20.8	25.7	30.6	33.1
36°	13.5	14.7	20.8	25.7	30.6	33.1
37°	12.3	14.7	19.6	25.7	30.6	33.1
38°	11.0	13.5	19.6	25.7	30.6	33.1
39°	9.8	13.5	18.4	25.7	30.6	33.1
40°	8.6	12.3	18.4	24.5	30.6	33.1
41°	8.6	12.3	18.4	24.5	30.6	33.1
42°	7.4	12.3	18.4	24.5	30.6	33.1
43°	6.1	11.0	18.4	24.5	30.6	33.1
44°	4.9	11.0	17.2	24.5	30.6	33.1
45°	4.9	11.0	17.2	24.5	30.6	33.1
46°	3.7	9.8	17.2	24.5	30.6	33.1
47°	2.5	9.8	17.2	23.3	30.6	33.1
48°	2.5	9.8	17.2	23.3	30.6	33.1
49°	2.5	9.8	15.9	23.3	30.6	33.1
50°	2.5	9.8	15.9	23.3	30.6	33.1
51°	1.2	8.6	15.9	23.3	30.6	33.1
52°	1.2	8.6	15.9	23.3	30.6	34.3
53°	1.2	8.6	15.9	23.3	30.6	33.1
54°	1.2	8.6	14.7	23.3	30.6	33.1
55°	1.2	8.6	14.7	23.3	30.6	33.1
56°	1.2	7.4	14.7	22.1	30.6	33.1
57°	2.5	7.4	14.7	22.1	30.6	31.9
58°	2.5	7.4	14.7	22.1	29.4	31.9
59°	2.5	7.4	14.7	22.1	29.4	31.9
60°	2.5	7.4	13.5	22.1	29.4	31.9
62.5°	2.5	7.4	13.5	20.8	28.2	30.6
65°	2.5	7.4	12.3	19.6	28.2	29.4



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.5	6.1	12.3	18.4	27.0	28.2
70°	3.7	6.1	11.0	18.4	25.7	27.0
72.5°	3.7	6.1	11.0	15.9	23.3	25.7
75°	3.7	6.1	9.8	14.7	22.1	23.3
77.5°	3.7	6.1	8.6	13.5	19.6	20.8
80°	4.9	6.1	7.4	11.0	17.2	18.4
82.5°	4.9	6.1	6.1	8.6	13.5	14.7
85°	3.7	4.9	4.9	6.1	8.6	9.8
87.5°	3.7	4.9	3.7	2.5	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)