

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: P1318362

Luminaire Tested: P3SQAS20R659835D010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

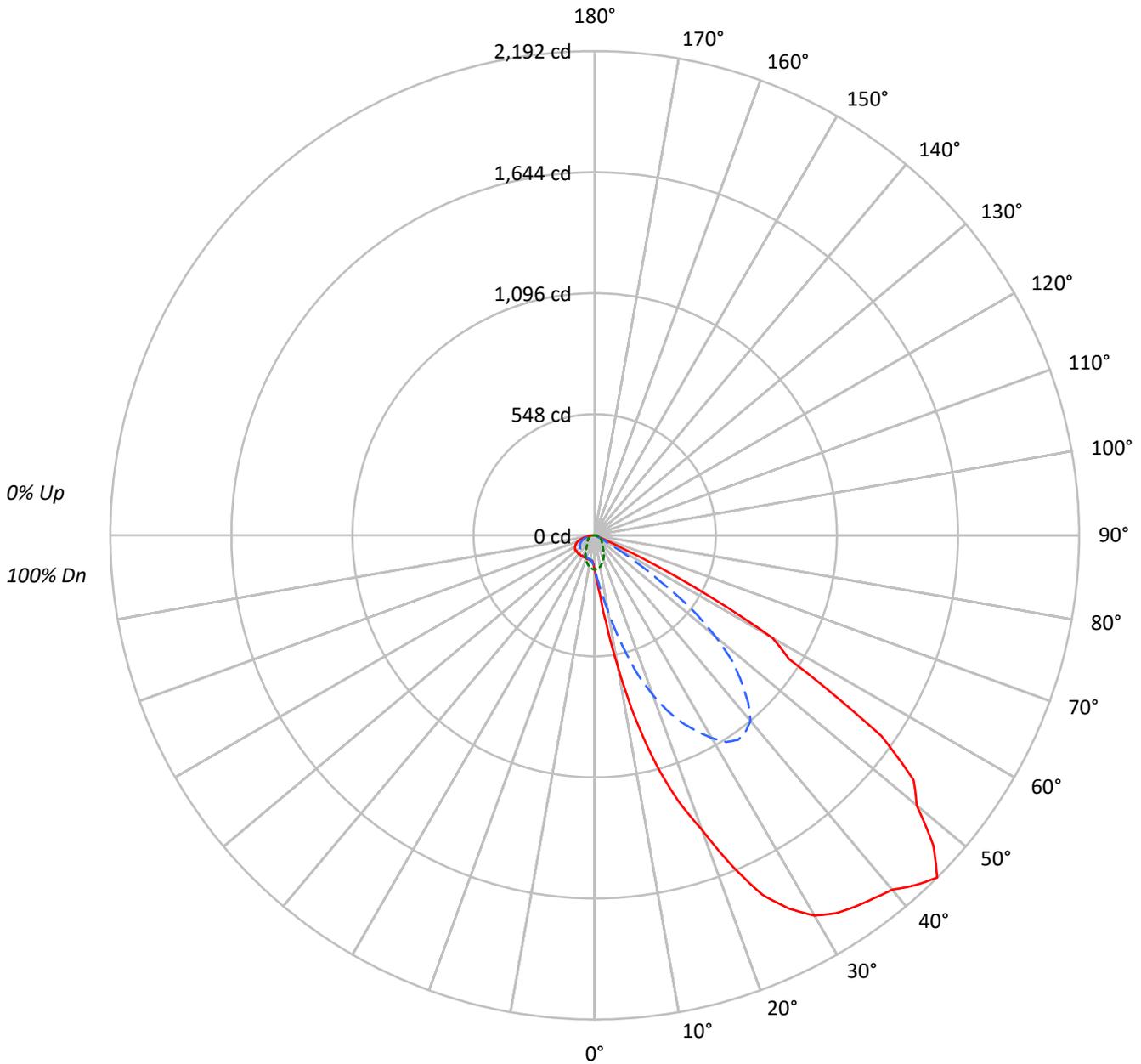
Test Method: LM-79-2019  
Report Number: P1318362  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS20R659835D010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 98CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1590.0 lumens  
Efficiency: N/A  
Efficacy: 58.0 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.4  
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

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62	62	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53	53	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39	39	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	34	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23	23	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	26626	26626	26626	26626	26626
5°	46574	38034	26191	21230	20400
10°	105382	61330	25095	19517	19796
15°	191581	98634	23304	19613	20183
20°	259756	140829	21040	19574	20454
25°	341421	177827	18471	19079	20903
30°	395345	210837	15850	19031	21875
35°	431717	237640	13414	19448	23127
40°	470954	246583	11826	20436	24730
45°	533907	228702	11252	21750	26792
50°	510006	190928	11119	23069	29472
55°	475343	107223	11500	24892	32548
60°	320127	23078	11539	26350	35133
65°	49391	5827	11044	27303	38347
70°	5640	5640	10423	28098	40938
75°	5323	5323	9515	27615	41389
80°	4761	6347	9521	25291	41159
85°	3162	6323	9485	25293	37742

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 533907 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.7	1.2
10°-20°	101.1	6.4
20°-30°	237.5	14.9
30°-40°	358.9	22.6
40°-50°	412.5	25.9
50°-60°	327.5	20.6
60°-70°	98.1	6.2
70°-80°	26.7	1.7
80°-90°	9.0	0.6
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°	357.4	22.5
0°-40°	716.2	45.0
0°-60°	1456.3	91.6
0°-90°	1590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1590.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	155	155	155	155	155	
5°	269	220	152	123	118	36
15°	1074	553	131	110	113	309
25°	1797	936	97	100	110	820
35°	2053	1130	64	92	110	1289
45°	2192	939	46	89	110	1628
55°	1583	357	38	83	108	1304
65°	121	14	27	67	94	272
75°	8	8	14	42	62	8
85°	2	3	5	13	19	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	154.6	154.6	154.6	154.6	154.6	154.6	154.6	154.6	154.6	154.6	154.6
2.5°	196.1	197.7	196.1	196.1	194.5	192.9	181.7	169.0	154.6	143.5	135.5
5°	269.4	271.0	266.2	266.2	263.0	258.3	220.0	183.3	151.5	133.9	122.8
7.5°	398.6	404.9	397.0	387.4	369.9	366.7	274.2	197.7	148.3	124.4	114.8
10°	602.6	597.8	589.9	570.7	540.4	526.1	350.7	212.0	143.5	118.0	111.6
12.5°	849.7	837.0	827.4	792.3	750.9	727.0	446.4	224.8	137.1	111.6	110.0
15°	1074.5	1065.0	1042.6	1009.2	958.1	939.0	553.2	232.8	130.7	106.8	110.0
17.5°	1264.2	1254.7	1241.9	1208.4	1155.8	1127.1	672.8	237.5	122.8	103.6	108.4
20°	1417.3	1410.9	1393.4	1366.3	1313.7	1286.5	768.4	237.5	114.8	100.4	106.8
22.5°	1615.0	1600.6	1578.3	1538.4	1473.1	1431.6	859.3	232.8	106.8	97.2	103.6
25°	1796.7	1787.1	1758.4	1710.6	1640.5	1599.0	935.8	223.2	97.2	92.5	100.4
27.5°	1905.1	1898.7	1871.6	1822.2	1744.1	1712.2	999.6	208.8	87.7	87.7	98.8
30°	1988.0	1975.3	1948.2	1900.3	1820.6	1782.4	1060.2	191.3	79.7	82.9	95.7
32.5°	2029.5	2024.7	2000.8	1959.3	1881.2	1838.2	1109.6	169.0	70.1	79.7	94.1
35°	2053.4	2048.6	2029.5	1989.6	1916.3	1874.8	1130.3	148.3	63.8	76.5	92.5
37.5°	2072.5	2067.7	2043.8	2004.0	1930.6	1887.6	1120.7	125.9	57.4	73.3	90.9
40°	2094.8	2077.3	2040.6	2000.8	1933.8	1892.4	1096.8	105.2	52.6	71.7	90.9
42.5°	2149.0	2088.5	2031.1	1994.4	1930.6	1882.8	1028.3	82.9	47.8	68.6	89.3
45°	2192.1	2085.3	2011.9	1983.2	1917.9	1863.7	939.0	60.6	46.2	67.0	89.3
47.5°	2078.9	2013.5	1980.0	1964.1	1894.0	1835.0	846.5	41.5	44.6	65.4	87.7
50°	1903.5	1895.5	1882.8	1884.4	1820.6	1772.8	712.6	28.7	41.5	63.8	86.1
52.5°	1819.0	1809.5	1787.1	1771.2	1707.4	1666.0	564.4	22.3	39.9	62.2	84.5
55°	1583.1	1589.5	1565.5	1575.1	1556.0	1535.3	357.1	20.7	38.3	59.0	82.9
57.5°	1042.6	1074.5	1130.3	1197.3	1257.9	1299.3	192.9	20.7	35.1	57.4	79.7
60°	929.4	921.5	919.9	932.6	959.7	982.1	67.0	19.1	33.5	52.6	76.5
62.5°	508.6	505.4	553.2	634.5	682.3	687.1	19.1	19.1	30.3	49.4	71.7
65°	121.2	125.9	140.3	175.4	207.3	228.0	14.3	17.5	27.1	46.2	67.0
67.5°	19.1	20.7	20.7	25.5	28.7	28.7	12.8	15.9	23.9	41.5	62.2
70°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	14.3	20.7	36.7	55.8
72.5°	9.6	9.6	9.6	9.6	9.6	9.6	11.2	12.8	17.5	31.9	47.8
75°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	11.2	14.3	25.5	41.5
77.5°	6.4	6.4	6.4	6.4	6.4	6.4	8.0	9.6	12.8	20.7	33.5
80°	4.8	4.8	4.8	4.8	4.8	4.8	6.4	8.0	9.6	15.9	25.5
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.8	6.4	8.0	12.8	19.1
85°	1.6	1.6	1.6	1.6	3.2	3.2	3.2	4.8	4.8	8.0	12.8
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	4.8	6.4
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):**

	157.5°	180°
0°	154.6	154.6
2.5°	130.7	129.1
5°	118.0	118.0
7.5°	113.2	113.2
10°	111.6	113.2
12.5°	111.6	113.2
15°	111.6	113.2
17.5°	111.6	113.2
20°	110.0	111.6
22.5°	108.4	110.0
25°	106.8	110.0
27.5°	105.2	110.0
30°	105.2	110.0
32.5°	105.2	110.0
35°	103.6	110.0
37.5°	103.6	110.0
40°	103.6	110.0
42.5°	103.6	110.0
45°	103.6	110.0
47.5°	103.6	110.0
50°	103.6	110.0
52.5°	102.0	110.0
55°	102.0	108.4
57.5°	98.8	105.2
60°	95.7	102.0
62.5°	92.5	98.8
65°	87.7	94.1
67.5°	82.9	87.7
70°	74.9	81.3
72.5°	67.0	71.7
75°	57.4	62.2
77.5°	47.8	52.6
80°	38.3	41.5
82.5°	27.1	30.3
85°	17.5	19.1
87.5°	8.0	8.0
90°	0.0	0.0

(END OF REPORT)