

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: P1318366

Luminaire Tested: P3SQAS20R709835D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R709835D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

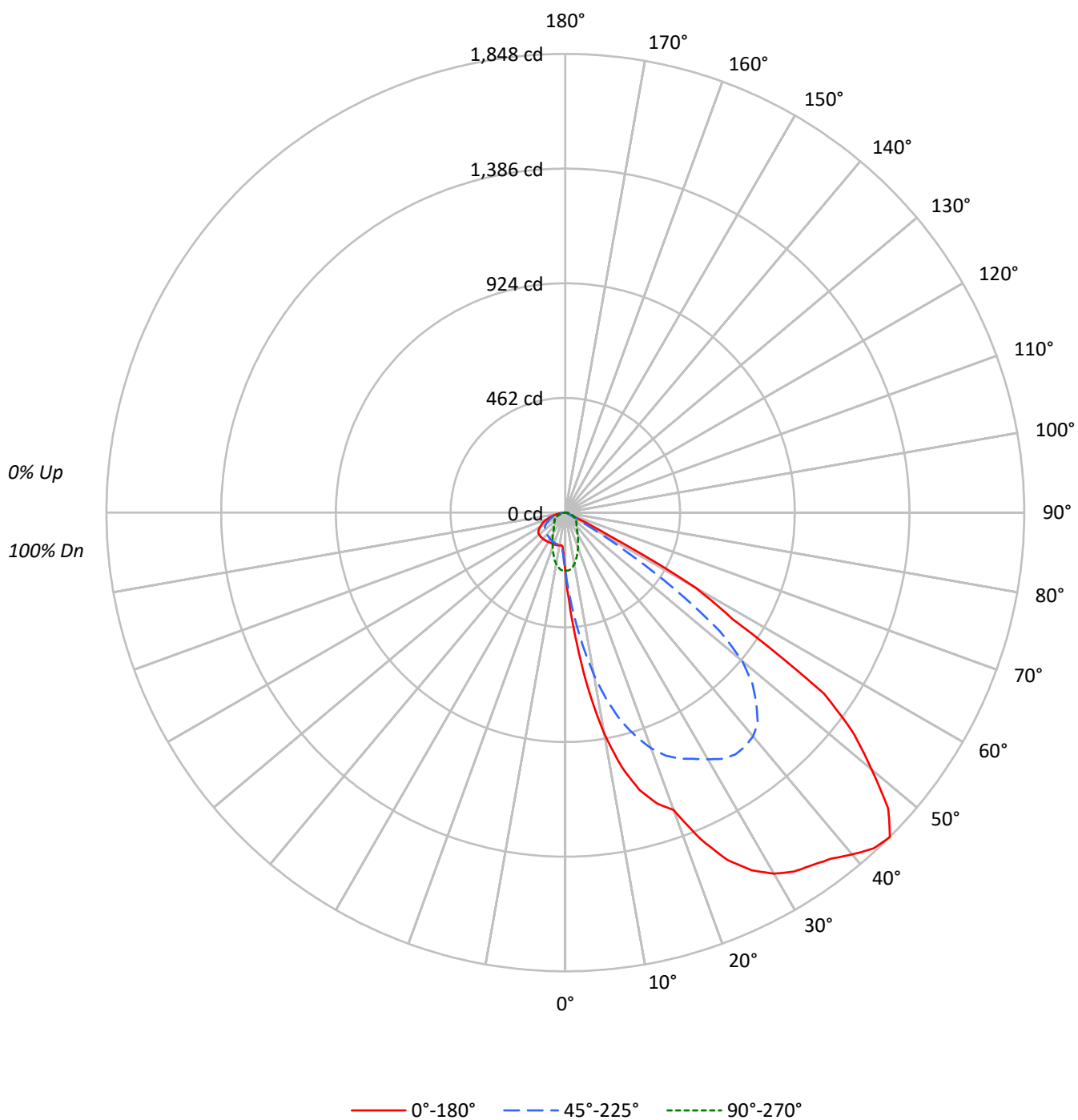
Lumens per Lamp: N/A
Luminaire Lumens: 1597.0 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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



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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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	40059	40059	40059	40059	40059
5°	91177	72990	39659	25068	23408
10°	157986	115910	36777	22857	23399
15°	206255	154834	32094	23304	24142
20°	233621	185145	27455	23661	25109
25°	293382	207699	23012	23924	25730
30°	333975	228139	19648	24401	27245
35°	364460	250234	17093	24788	28804
40°	404070	264367	15760	25787	31160
45°	450171	264676	15515	27157	33757
50°	431181	248881	15379	28615	36707
55°	381782	161240	15794	30146	39695
60°	209113	34582	15913	30725	41161
65°	14915	8436	15567	30523	41566
70°	7201	8006	14452	28904	40133
75°	6388	8451	13774	27548	37130
80°	6347	7934	12596	25291	34812
85°	6323	9485	12647	22132	31419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 450171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.3	1.9
10°-20°	129.8	8.1
20°-30°	249.0	15.6
30°-40°	352.1	22.0
40°-50°	398.3	24.9
50°-60°	315.5	19.8
60°-70°	85.1	5.3
70°-80°	28.2	1.8
80°-90°	8.7	0.5
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°	409.1	25.6
0°-40°	761.3	47.7
0°-60°	1475.1	92.4
0°-90°	1597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1597.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	233	233	233	233	233	
5°	527	422	229	145	135	62
15°	1157	868	180	131	135	326
25°	1544	1093	121	126	135	708
35°	1734	1190	81	118	137	1092
45°	1848	1087	64	112	139	1383
55°	1272	537	53	100	132	1032
65°	37	21	38	75	102	132
75°	10	13	21	41	56	10
85°	3	5	6	11	16	3
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6	232.6
2.5°	361.7	361.7	360.1	353.7	350.5	342.6	336.2	318.7	275.6	234.2	200.8
5°	527.4	535.4	524.2	522.6	513.1	498.7	489.2	422.2	318.7	229.4	172.1
7.5°	723.4	726.6	723.4	707.4	693.1	669.2	646.9	541.7	361.7	221.5	151.4
10°	903.4	898.6	889.1	877.9	857.2	831.7	793.5	662.8	403.1	210.3	138.6
12.5°	1050.0	1048.4	1037.3	1026.1	1000.6	967.2	928.9	772.8	438.2	196.0	132.2
15°	1156.8	1156.8	1145.6	1132.9	1109.0	1081.9	1038.9	868.4	466.8	180.0	125.9
17.5°	1228.5	1225.3	1217.3	1207.7	1188.6	1161.5	1128.1	944.8	486.0	164.1	124.3
20°	1274.7	1273.1	1266.7	1252.4	1236.4	1215.7	1185.4	1010.2	493.9	149.8	122.7
22.5°	1422.8	1410.1	1386.2	1355.9	1317.7	1268.3	1226.9	1059.6	490.7	133.8	119.5
25°	1543.9	1539.2	1513.7	1477.0	1426.0	1362.3	1293.8	1093.0	474.8	121.1	116.3
27.5°	1623.6	1615.6	1591.7	1551.9	1497.7	1435.6	1371.9	1118.5	452.5	109.9	111.5
30°	1679.4	1674.6	1650.7	1606.1	1550.3	1481.8	1416.5	1147.2	422.2	98.8	106.8
32.5°	1714.4	1709.6	1685.7	1645.9	1591.7	1520.0	1445.1	1175.9	385.6	89.2	102.0
35°	1733.5	1728.8	1701.7	1666.6	1615.6	1545.5	1465.9	1190.2	341.0	81.3	97.2
37.5°	1757.4	1747.9	1711.2	1668.2	1617.2	1551.9	1472.2	1188.6	296.4	74.9	94.0
40°	1797.3	1771.8	1719.2	1661.8	1609.3	1543.9	1467.5	1175.9	247.0	70.1	90.8
42.5°	1835.5	1798.9	1720.8	1652.3	1593.3	1529.6	1449.9	1147.2	192.8	66.9	89.2
45°	1848.3	1794.1	1698.5	1630.0	1574.2	1508.9	1426.0	1086.7	130.7	63.7	86.0
47.5°	1763.8	1724.0	1644.3	1593.3	1540.7	1477.0	1391.0	1022.9	74.9	60.5	82.9
50°	1609.3	1583.8	1539.2	1507.3	1478.6	1434.0	1349.5	928.9	44.6	57.4	79.7
52.5°	1465.9	1457.9	1426.0	1400.5	1384.6	1363.9	1287.4	783.9	36.6	55.8	76.5
55°	1271.5	1246.0	1238.0	1228.5	1261.9	1260.3	1156.8	537.0	35.1	52.6	73.3
57.5°	798.3	809.4	850.8	927.3	1018.1	1070.7	1067.5	286.8	33.5	49.4	68.5
60°	607.1	605.5	618.2	650.1	717.0	791.9	862.0	100.4	31.9	46.2	65.3
62.5°	181.6	186.4	224.7	329.8	395.1	487.6	444.5	23.9	30.3	41.4	59.0
65°	36.6	38.2	38.2	43.0	52.6	79.7	97.2	20.7	28.7	38.2	54.2
67.5°	15.9	15.9	15.9	17.5	17.5	20.7	17.5	19.1	25.5	33.5	47.8
70°	14.3	14.3	14.3	14.3	14.3	14.3	15.9	15.9	22.3	28.7	41.4
72.5°	11.2	11.2	11.2	12.7	12.7	12.7	12.7	14.3	19.1	23.9	35.1
75°	9.6	9.6	9.6	9.6	11.2	11.2	11.2	12.7	15.9	20.7	28.7
77.5°	8.0	8.0	8.0	8.0	8.0	9.6	9.6	9.6	12.7	15.9	23.9
80°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	8.0	9.6	12.7	17.5
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.4	8.0	9.6	12.7
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	6.4	8.0
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	4.8
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):

	135°	157.5°	180°
0°	232.6	232.6	232.6
2.5°	176.9	167.3	162.5
5°	145.0	137.0	135.4
7.5°	133.8	132.2	132.2
10°	130.7	132.2	133.8
12.5°	130.7	133.8	135.4
15°	130.7	133.8	135.4
17.5°	130.7	133.8	135.4
20°	129.1	133.8	137.0
22.5°	127.5	133.8	135.4
25°	125.9	133.8	135.4
27.5°	124.3	132.2	135.4
30°	122.7	132.2	137.0
32.5°	119.5	132.2	137.0
35°	117.9	132.2	137.0
37.5°	116.3	132.2	138.6
40°	114.7	132.2	138.6
42.5°	113.1	132.2	138.6
45°	111.5	130.7	138.6
47.5°	108.3	130.7	138.6
50°	106.8	129.1	137.0
52.5°	103.6	127.5	137.0
55°	100.4	124.3	132.2
57.5°	95.6	119.5	125.9
60°	89.2	113.1	119.5
62.5°	81.3	105.2	109.9
65°	74.9	95.6	102.0
67.5°	65.3	84.4	90.8
70°	57.4	73.3	79.7
72.5°	49.4	62.1	68.5
75°	41.4	51.0	55.8
77.5°	31.9	41.4	44.6
80°	25.5	31.9	35.1
82.5°	17.5	22.3	23.9
85°	11.2	14.3	15.9
87.5°	4.8	6.4	6.4
90°	0.0	0.0	0.0

(END OF REPORT)