

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: P1317491

Luminaire Tested: P3SQAS20R709830D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317491
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: P3SQAS20R709830D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

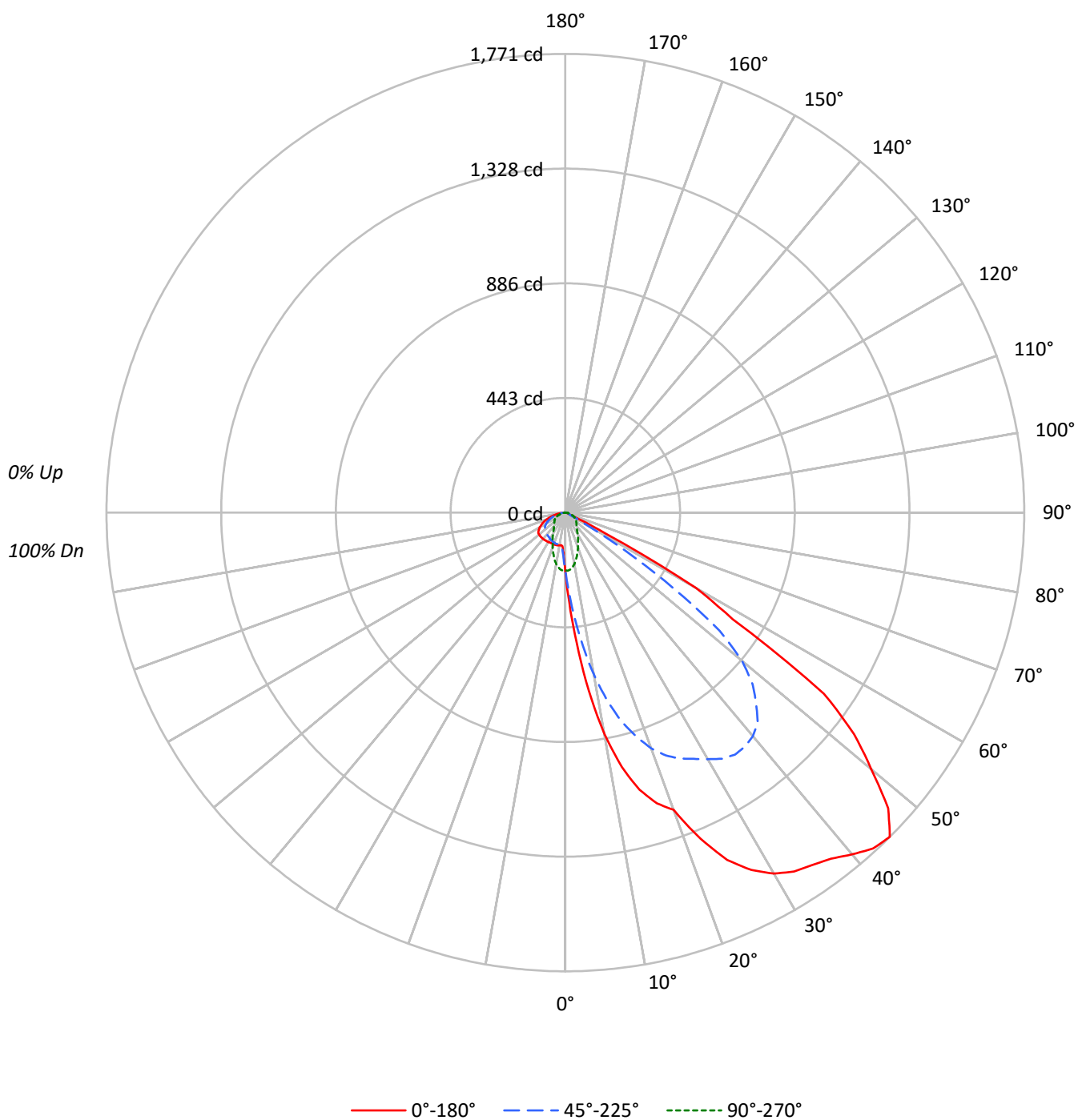
Lumens per Lamp: N/A
Luminaire Lumens: 1530.0 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	38388	38388	38388	38388	38388
5°	87357	69930	37999	24013	22440
10°	151358	111048	35238	21895	22420
15°	197590	148326	30756	22323	23143
20°	223816	177374	26300	22653	24064
25°	281087	198996	22043	22917	24665
30°	319955	218573	18813	23367	26111
35°	349175	239742	16378	23758	27605
40°	387119	253261	15108	24708	29856
45°	431271	253570	14881	26037	32345
50°	413069	238432	14736	27409	35179
55°	365748	154454	15133	28885	38043
60°	200329	33136	15259	29450	39439
65°	14304	8069	14915	29219	39814
70°	6899	7704	13847	27695	38421
75°	6122	8118	13175	26417	35533
80°	6050	7538	12100	24200	33324
85°	6126	9090	12054	21144	30233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 431271 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.1	1.9
10°-20°	124.3	8.1
20°-30°	238.6	15.6
30°-40°	337.4	22.0
40°-50°	381.6	24.9
50°-60°	302.2	19.8
60°-70°	81.5	5.3
70°-80°	27.1	1.8
80°-90°	8.3	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°	392.0	25.6
0°-40°	729.3	47.7
0°-60°	1413.2	92.4
0°-90°	1530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1530.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	223	223	223	223	223	
5°	505	404	220	139	130	60
15°	1108	832	172	125	130	312
25°	1479	1047	116	121	130	678
35°	1661	1140	78	113	131	1046
45°	1771	1041	61	107	133	1325
55°	1218	514	50	96	127	989
65°	35	20	37	72	98	127
75°	9	12	20	40	53	10
85°	3	5	6	11	15	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°	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9	222.9
2.5°	346.5	346.5	345.0	338.9	335.8	328.2	322.1	305.3	264.1	224.4	192.3
5°	505.3	512.9	502.2	500.7	491.5	477.8	468.6	404.5	305.3	219.8	164.9
7.5°	693.0	696.1	693.0	677.8	664.0	641.1	619.8	519.0	346.5	212.2	145.0
10°	865.5	860.9	851.8	841.1	821.2	796.8	760.2	635.0	386.2	201.5	132.8
12.5°	1006.0	1004.4	993.7	983.1	958.6	926.6	889.9	740.3	419.8	187.8	126.7
15°	1108.2	1108.2	1097.5	1085.3	1062.4	1036.5	995.3	831.9	447.3	172.5	120.6
17.5°	1176.9	1173.9	1166.2	1157.1	1138.8	1112.8	1080.8	905.2	465.6	157.2	119.1
20°	1221.2	1219.7	1213.6	1199.8	1184.6	1164.7	1135.7	967.8	473.2	143.5	117.5
22.5°	1363.1	1350.9	1328.0	1299.0	1262.4	1215.1	1175.4	1015.1	470.2	128.2	114.5
25°	1479.2	1474.6	1450.2	1415.0	1366.2	1305.1	1239.5	1047.2	454.9	116.0	111.4
27.5°	1555.5	1547.9	1525.0	1486.8	1434.9	1375.4	1314.3	1071.6	433.5	105.3	106.9
30°	1608.9	1604.3	1581.4	1538.7	1485.3	1419.6	1357.0	1099.1	404.5	94.6	102.3
32.5°	1642.5	1637.9	1615.0	1576.9	1525.0	1456.3	1384.5	1126.5	369.4	85.5	97.7
35°	1660.8	1656.2	1630.3	1596.7	1547.9	1480.7	1404.4	1140.3	326.7	77.9	93.1
37.5°	1683.7	1674.6	1639.4	1598.2	1549.4	1486.8	1410.5	1138.8	283.9	71.7	90.1
40°	1721.9	1697.4	1647.1	1592.1	1541.7	1479.2	1405.9	1126.5	236.6	67.2	87.0
42.5°	1758.5	1723.4	1648.6	1583.0	1526.5	1465.4	1389.1	1099.1	184.7	64.1	85.5
45°	1770.7	1718.8	1627.2	1561.6	1508.2	1445.6	1366.2	1041.1	125.2	61.1	82.4
47.5°	1689.8	1651.7	1575.3	1526.5	1476.1	1415.0	1332.6	980.0	71.7	58.0	79.4
50°	1541.7	1517.3	1474.6	1444.1	1416.6	1373.8	1292.9	889.9	42.7	55.0	76.3
52.5°	1404.4	1396.7	1366.2	1341.8	1326.5	1306.7	1233.4	751.0	35.1	53.4	73.3
55°	1218.1	1193.7	1186.1	1176.9	1209.0	1207.4	1108.2	514.4	33.6	50.4	70.2
57.5°	764.8	775.5	815.1	888.4	975.4	1025.8	1022.7	274.8	32.1	47.3	65.6
60°	581.6	580.1	592.3	622.8	686.9	758.7	825.8	96.2	30.5	44.3	62.6
62.5°	174.0	178.6	215.2	316.0	378.6	467.1	425.9	22.9	29.0	39.7	56.5
65°	35.1	36.6	36.6	41.2	50.4	76.3	93.1	19.8	27.5	36.6	51.9
67.5°	15.3	15.3	15.3	16.8	16.8	19.8	16.8	18.3	24.4	32.1	45.8
70°	13.7	13.7	13.7	13.7	13.7	13.7	15.3	15.3	21.4	27.5	39.7
72.5°	10.7	10.7	10.7	12.2	12.2	12.2	12.2	13.7	18.3	22.9	33.6
75°	9.2	9.2	9.2	9.2	10.7	10.7	10.7	12.2	15.3	19.8	27.5
77.5°	7.6	7.6	7.6	7.6	7.6	9.2	9.2	9.2	12.2	15.3	22.9
80°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6	9.2	12.2	16.8
82.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.1	7.6	9.2	12.2
85°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6	6.1	7.6
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	3.1	4.6
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°	222.9	222.9	222.9
2.5°	169.4	160.3	155.7
5°	138.9	131.3	129.8
7.5°	128.2	126.7	126.7
10°	125.2	126.7	128.2
12.5°	125.2	128.2	129.8
15°	125.2	128.2	129.8
17.5°	125.2	128.2	129.8
20°	123.6	128.2	131.3
22.5°	122.1	128.2	129.8
25°	120.6	128.2	129.8
27.5°	119.1	126.7	129.8
30°	117.5	126.7	131.3
32.5°	114.5	126.7	131.3
35°	113.0	126.7	131.3
37.5°	111.4	126.7	132.8
40°	109.9	126.7	132.8
42.5°	108.4	126.7	132.8
45°	106.9	125.2	132.8
47.5°	103.8	125.2	132.8
50°	102.3	123.6	131.3
52.5°	99.2	122.1	131.3
55°	96.2	119.1	126.7
57.5°	91.6	114.5	120.6
60°	85.5	108.4	114.5
62.5°	77.9	100.7	105.3
65°	71.7	91.6	97.7
67.5°	62.6	80.9	87.0
70°	55.0	70.2	76.3
72.5°	47.3	59.5	65.6
75°	39.7	48.8	53.4
77.5°	30.5	39.7	42.7
80°	24.4	30.5	33.6
82.5°	16.8	21.4	22.9
85°	10.7	13.7	15.3
87.5°	4.6	6.1	6.1
90°	0.0	0.0	0.0

(END OF REPORT)