

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: P1315726

Luminaire Tested: P3SQAS20R609740D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R609740D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

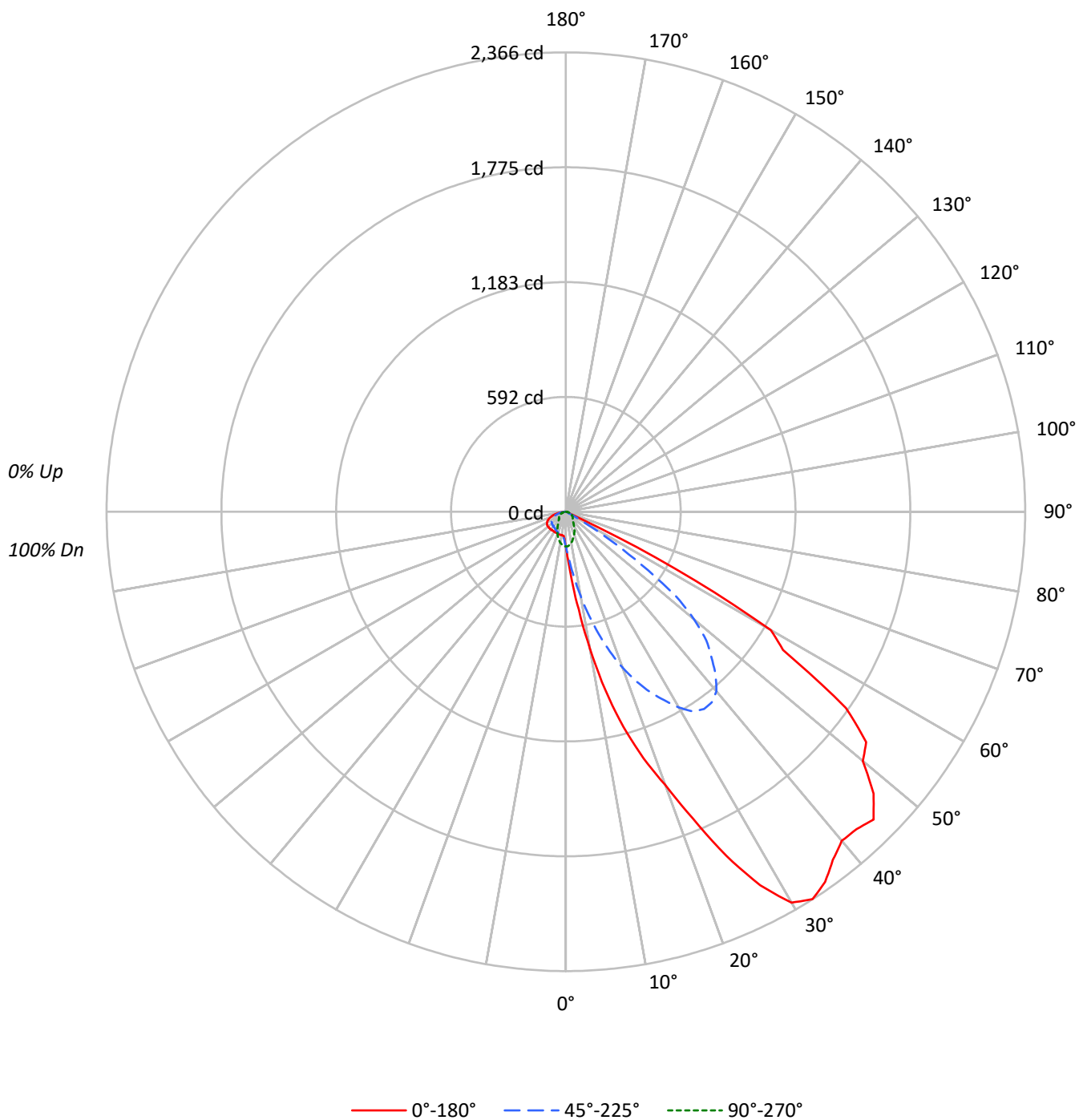
Lumens per Lamp: N/A
Luminaire Lumens: 1801.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1315726

CATALOG NUMBER: P3SQAS20R609740D010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1315726

CATALOG NUMBER: P3SQAS20R609740D010 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	30725	30725	30725	30725	30725
5°	60560	47266	30289	22924	21800
10°	125109	77017	28348	20898	21178
15°	204615	115591	25390	21021	21592
20°	274547	156627	22799	21003	21901
25°	371445	194435	19915	20846	22708
30°	462303	231480	16605	20841	23764
35°	489450	260893	14107	21340	24788
40°	497258	271269	12882	22077	26866
45°	545866	258392	12373	23528	29105
50°	535138	231599	12271	24998	32018
55°	528940	142053	12281	27023	35401
60°	419534	33825	12986	28761	38337
65°	26692	5990	12674	29341	41363
70°	5791	6596	12387	30515	43708
75°	5456	6521	10913	29411	44649
80°	4860	6447	11406	29258	42250
85°	3162	6521	12844	25886	42090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 576168 cd/sqm

TEST NUMBER: P1315726

CATALOG NUMBER: P3SQAS20R609740D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	1.2
10°-20°	112.3	6.2
20°-30°	260.4	14.5
30°-40°	404.8	22.5
40°-50°	461.3	25.6
50°-60°	388.5	21.6
60°-70°	112.7	6.3
70°-80°	28.9	1.6
80°-90°	9.8	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°	395.0	21.9
0°-40°	799.8	44.4
0°-60°	1649.6	91.6
0°-90°	1801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1801.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	178	178	178	178	178	
5°	350	273	175	133	126	45
15°	1148	648	142	118	121	332
25°	1955	1023	105	110	120	908
35°	2328	1241	67	102	118	1446
45°	2241	1061	51	97	120	1685
55°	1762	473	41	90	118	1482
65°	66	15	31	72	102	324
75°	8	10	16	44	67	9
85°	2	3	6	13	21	2
90°	0	0	0	0	0	

TEST NUMBER: P1315726

CATALOG NUMBER: P3SQAS20R609740D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4	178.4
2.5°	240.7	239.0	239.0	237.4	235.7	234.1	229.2	227.6	217.7	198.1	178.4
5°	350.3	348.7	343.8	342.2	334.0	322.5	311.1	299.6	273.4	217.7	175.2
7.5°	507.5	510.8	507.5	489.5	478.0	460.0	425.7	401.1	348.7	237.4	168.6
10°	715.4	715.4	710.5	682.7	658.1	623.7	579.5	537.0	440.4	255.4	162.1
12.5°	941.4	946.3	921.7	898.8	854.6	812.0	751.4	687.6	545.2	270.1	153.9
15°	1147.6	1144.4	1119.8	1090.3	1044.5	985.6	921.7	839.8	648.3	279.9	142.4
17.5°	1331.0	1324.4	1303.2	1270.4	1214.8	1149.3	1067.4	979.0	754.7	288.1	134.2
20°	1498.0	1475.1	1450.5	1416.1	1362.1	1293.3	1208.2	1108.3	854.6	288.1	124.4
22.5°	1709.2	1686.2	1651.9	1599.5	1527.4	1442.3	1342.4	1229.5	943.0	281.6	114.6
25°	1954.7	1936.7	1877.8	1810.7	1717.4	1615.9	1499.6	1347.4	1023.2	271.8	104.8
27.5°	2169.2	2149.6	2090.6	1992.4	1879.4	1758.3	1635.5	1480.0	1093.6	253.8	93.3
30°	2324.7	2300.2	2254.3	2161.0	2023.5	1876.2	1730.4	1581.5	1164.0	232.5	83.5
32.5°	2365.7	2362.4	2328.0	2259.2	2136.5	1974.4	1800.8	1638.8	1219.7	204.6	75.3
35°	2328.0	2332.9	2326.4	2292.0	2201.9	2043.1	1846.7	1669.9	1240.9	176.8	67.1
37.5°	2259.2	2265.8	2277.3	2282.2	2224.9	2084.1	1872.9	1683.0	1236.0	149.0	62.2
40°	2211.8	2208.5	2208.5	2241.2	2229.8	2102.1	1876.2	1673.1	1206.6	119.5	57.3
42.5°	2216.7	2180.7	2156.1	2208.5	2224.9	2093.9	1854.9	1647.0	1142.7	91.7	52.4
45°	2241.2	2164.3	2121.7	2188.8	2215.0	2066.1	1815.6	1607.7	1060.9	63.8	50.8
47.5°	2149.6	2098.8	2092.3	2187.2	2197.0	2018.6	1755.0	1545.5	982.3	44.2	47.5
50°	1997.3	1989.1	2023.5	2121.7	2123.4	1940.0	1686.2	1432.5	864.4	31.1	45.8
52.5°	1949.8	1954.7	1985.8	2036.6	1989.1	1807.4	1561.8	1337.5	715.4	24.6	44.2
55°	1761.6	1769.7	1799.2	1830.3	1795.9	1645.3	1411.2	1222.9	473.1	22.9	40.9
57.5°	1326.1	1347.4	1401.4	1429.2	1432.5	1340.8	1278.6	1054.3	266.9	22.9	39.3
60°	1218.0	1190.2	1165.6	1108.3	1056.0	1044.5	1051.0	790.7	98.2	21.3	37.7
62.5°	636.8	623.7	661.4	686.0	692.5	728.5	681.0	417.5	21.3	21.3	34.4
65°	65.5	65.5	80.2	106.4	176.8	235.7	224.3	121.1	14.7	19.6	31.1
67.5°	19.6	19.6	19.6	22.9	29.5	29.5	24.6	18.0	14.7	18.0	27.8
70°	11.5	11.5	11.5	11.5	11.5	11.5	13.1	11.5	13.1	16.4	24.6
72.5°	9.8	9.8	9.8	9.8	11.5	11.5	11.5	11.5	11.5	14.7	21.3
75°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.8	9.8	11.5	16.4
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	8.2	8.2	8.2	9.8	13.1
80°	4.9	4.9	4.9	4.9	4.9	6.5	6.5	6.5	6.5	8.2	11.5
82.5°	3.3	3.3	3.3	3.3	4.9	4.9	4.9	4.9	4.9	6.5	8.2
85°	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9	6.5
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	4.9
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: P1315726

CATALOG NUMBER: P3SQAS20R609740D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	178.4	178.4	178.4	178.4
2.5°	162.1	150.6	144.1	140.8
5°	147.3	132.6	127.7	126.1
7.5°	134.2	124.4	122.8	122.8
10°	126.1	119.5	121.1	121.1
12.5°	121.1	119.5	121.1	122.8
15°	116.2	117.9	121.1	121.1
17.5°	113.0	116.2	119.5	121.1
20°	108.1	114.6	119.5	119.5
22.5°	104.8	113.0	117.9	119.5
25°	101.5	109.7	116.2	119.5
27.5°	96.6	108.1	116.2	117.9
30°	91.7	104.8	114.6	119.5
32.5°	86.8	103.1	114.6	117.9
35°	83.5	101.5	114.6	117.9
37.5°	80.2	99.9	114.6	119.5
40°	78.6	98.2	113.0	119.5
42.5°	75.3	98.2	113.0	119.5
45°	73.7	96.6	113.0	119.5
47.5°	72.0	95.0	113.0	119.5
50°	68.8	93.3	111.3	119.5
52.5°	67.1	91.7	111.3	119.5
55°	63.8	90.0	109.7	117.9
57.5°	62.2	86.8	108.1	114.6
60°	58.9	83.5	104.8	111.3
62.5°	54.0	78.6	99.9	108.1
65°	49.1	72.0	95.0	101.5
67.5°	44.2	67.1	88.4	95.0
70°	39.3	60.6	80.2	86.8
72.5°	34.4	52.4	72.0	76.9
75°	29.5	44.2	60.6	67.1
77.5°	22.9	36.0	50.8	55.7
80°	18.0	29.5	39.3	42.6
82.5°	14.7	21.3	29.5	31.1
85°	9.8	13.1	18.0	21.3
87.5°	4.9	6.5	8.2	9.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)