

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: P1314736

Luminaire Tested: P3SQAS20R509735D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R509735D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

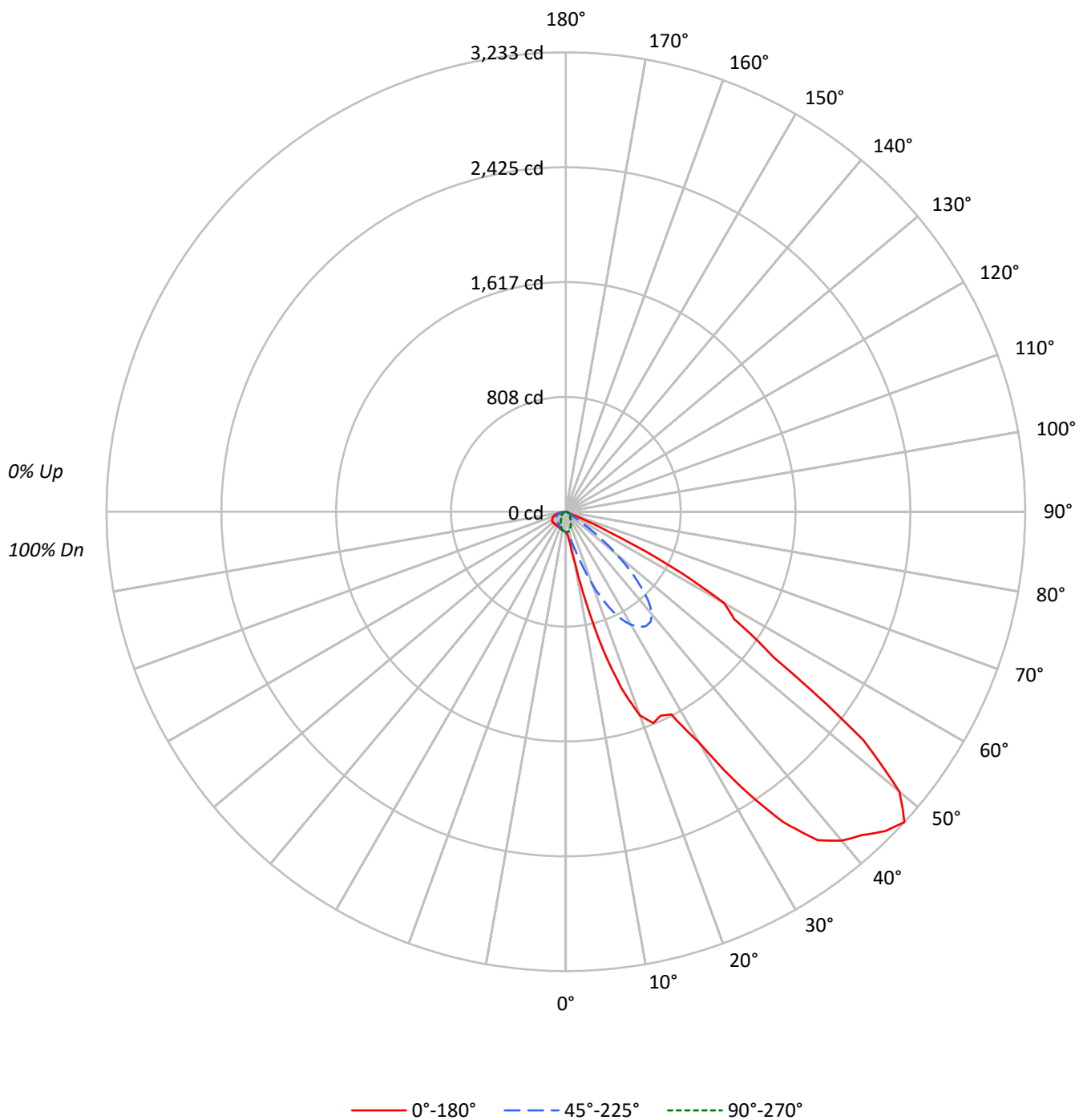
Lumens per Lamp: N/A
Luminaire Lumens: 1823.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314736

CATALOG NUMBER: P3SQAS20R509735D010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314736

CATALOG NUMBER: P3SQAS20R509735D010 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	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	24955	24955	24955	24955	24955
5°	29666	27765	24774	23685	23408
10°	63883	34416	23679	22857	23137
15°	176872	56431	21342	21895	22733
20°	279642	98987	18474	21058	22213
25°	300717	145427	15867	20352	22442
30°	373251	182559	13781	20046	23168
35°	560135	206566	11921	20205	24494
40°	679341	212411	10612	20886	25832
45°	773911	182158	10351	22237	28375
50°	821396	125713	10556	24060	31643
55°	536626	50594	10389	26003	34980
60°	442578	8680	10299	28210	38509
65°	133461	4483	9617	30156	42341
70°	5539	4733	9517	30918	45974
75°	5257	5257	9449	31408	50306
80°	4661	4661	9323	31241	51573
85°	3162	6126	12449	31024	49796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 824060 cd/sqm

TEST NUMBER: P1314736

CATALOG NUMBER: P3SQAS20R509735D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	0.8
10°-20°	86.3	4.7
20°-30°	221.9	12.2
30°-40°	398.6	21.9
40°-50°	532.4	29.2
50°-60°	405.5	22.2
60°-70°	123.1	6.8
70°-80°	29.4	1.6
80°-90°	10.6	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°	323.3	17.7
0°-40°	721.9	39.6
0°-60°	1659.9	91.1
0°-90°	1823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1823.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	145	145	145	145	145	
5°	172	161	143	137	135	22
15°	992	316	120	123	128	292
25°	1582	765	84	107	118	755
35°	2664	982	57	96	116	1636
45°	3178	748	42	91	116	2429
55°	1787	168	35	87	116	1778
65°	328	11	24	74	104	453
75°	8	8	14	47	76	8
85°	2	3	6	16	25	2
90°	0	0	0	0	0	

TEST NUMBER: P1314736

CATALOG NUMBER: P3SQAS20R509735D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9
2.5°	154.3	154.3	154.3	154.3	154.3	154.3	152.7	152.7	152.7	149.6	146.4
5°	171.6	173.2	171.6	171.6	168.5	168.5	165.3	165.3	160.6	151.2	143.3
7.5°	225.2	223.6	222.0	215.7	211.0	200.0	195.2	187.4	173.2	151.2	140.1
10°	365.3	355.9	349.6	335.4	305.5	286.6	261.4	236.2	196.8	151.2	135.4
12.5°	634.6	633.0	614.1	566.9	524.3	466.1	404.7	343.3	242.5	148.0	129.1
15°	992.0	977.8	951.1	895.9	820.4	729.0	618.8	510.2	316.5	143.3	119.7
17.5°	1297.5	1280.1	1259.7	1204.6	1118.0	1003.0	870.8	721.2	417.3	137.0	110.2
20°	1525.8	1514.8	1497.4	1453.4	1371.5	1267.6	1119.5	938.5	540.1	129.1	100.8
22.5°	1609.2	1607.7	1610.8	1595.1	1554.1	1472.2	1330.5	1141.6	661.3	119.7	91.3
25°	1582.5	1580.9	1601.4	1621.8	1631.3	1598.2	1489.6	1305.3	765.3	111.8	83.5
27.5°	1607.7	1602.9	1593.5	1596.6	1623.4	1642.3	1591.9	1431.3	855.0	100.8	75.6
30°	1876.9	1850.2	1807.6	1735.2	1681.7	1676.9	1654.9	1530.5	918.0	89.8	69.3
32.5°	2297.3	2264.3	2187.1	2053.3	1925.7	1828.1	1758.8	1614.0	962.1	78.7	61.4
35°	2664.2	2640.6	2550.8	2418.6	2235.9	2053.3	1927.3	1736.8	982.5	69.3	56.7
37.5°	2913.0	2903.6	2815.4	2673.7	2487.9	2272.1	2105.2	1862.7	977.8	58.3	52.0
40°	3021.7	2993.3	2919.3	2799.6	2612.3	2418.6	2242.2	1943.1	944.8	47.2	47.2
42.5°	3086.2	3054.7	2974.4	2861.0	2676.8	2470.5	2258.0	1908.4	866.0	37.8	45.7
45°	3177.5	3144.5	3039.0	2917.7	2731.9	2492.6	2196.6	1785.6	747.9	28.3	42.5
47.5°	3232.6	3210.6	3131.9	3010.6	2785.5	2461.1	2054.8	1670.6	617.2	22.0	40.9
50°	3065.7	3043.7	2985.4	2902.0	2750.8	2355.6	1930.5	1484.8	469.2	17.3	39.4
52.5°	2639.0	2657.9	2668.9	2692.6	2582.3	2119.4	1744.7	1336.8	316.5	14.2	36.2
55°	1787.2	1815.5	1847.0	1941.5	2070.6	1886.4	1549.4	1155.8	168.5	14.2	34.6
57.5°	1404.5	1395.1	1385.6	1379.3	1480.1	1555.7	1362.0	924.3	72.4	14.2	31.5
60°	1284.9	1256.5	1237.6	1242.4	1292.7	1262.8	1078.6	603.1	25.2	14.2	29.9
62.5°	842.4	864.5	907.0	979.4	944.8	810.9	626.7	239.3	12.6	14.2	26.8
65°	327.5	316.5	327.5	348.0	300.7	223.6	140.1	42.5	11.0	12.6	23.6
67.5°	44.1	39.4	29.9	18.9	17.3	15.7	12.6	11.0	11.0	12.6	22.0
70°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	9.4	9.4	11.0	18.9
72.5°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	11.0	15.7
75°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	9.4	14.2
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.9	11.0
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3	9.4
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7	6.3	7.9
85°	1.6	3.1	1.6	3.1	3.1	3.1	3.1	3.1	3.1	4.7	6.3
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	4.7	4.7
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: P1314736

CATALOG NUMBER: P3SQAS20R509735D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	144.9	144.9	144.9	144.9
2.5°	143.3	140.1	140.1	140.1
5°	140.1	137.0	137.0	135.4
7.5°	135.4	133.8	133.8	133.8
10°	132.3	130.7	132.3	132.3
12.5°	126.0	127.5	129.1	129.1
15°	119.7	122.8	126.0	127.5
17.5°	113.4	119.7	122.8	124.4
20°	107.1	114.9	119.7	121.2
22.5°	102.3	110.2	116.5	119.7
25°	96.1	107.1	114.9	118.1
27.5°	89.8	102.3	111.8	116.5
30°	85.0	100.8	111.8	116.5
32.5°	80.3	97.6	110.2	114.9
35°	77.2	96.1	110.2	116.5
37.5°	74.0	94.5	110.2	114.9
40°	72.4	92.9	110.2	114.9
42.5°	70.9	92.9	110.2	116.5
45°	67.7	91.3	110.2	116.5
47.5°	66.1	91.3	110.2	116.5
50°	64.6	89.8	110.2	118.1
52.5°	63.0	88.2	110.2	118.1
55°	59.8	86.6	108.6	116.5
57.5°	58.3	85.0	107.1	113.4
60°	55.1	81.9	103.9	111.8
62.5°	52.0	78.7	100.8	107.1
65°	47.2	74.0	96.1	103.9
67.5°	42.5	67.7	91.3	99.2
70°	37.8	61.4	85.0	91.3
72.5°	33.1	55.1	78.7	83.5
75°	28.3	47.2	69.3	75.6
77.5°	23.6	40.9	58.3	63.0
80°	17.3	31.5	47.2	52.0
82.5°	14.2	23.6	34.6	37.8
85°	9.4	15.7	22.0	25.2
87.5°	4.7	7.9	11.0	12.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)