

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: P1312809

Luminaire Tested: P3SQAS20R609727D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312809
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: P3SQAS20R609727D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

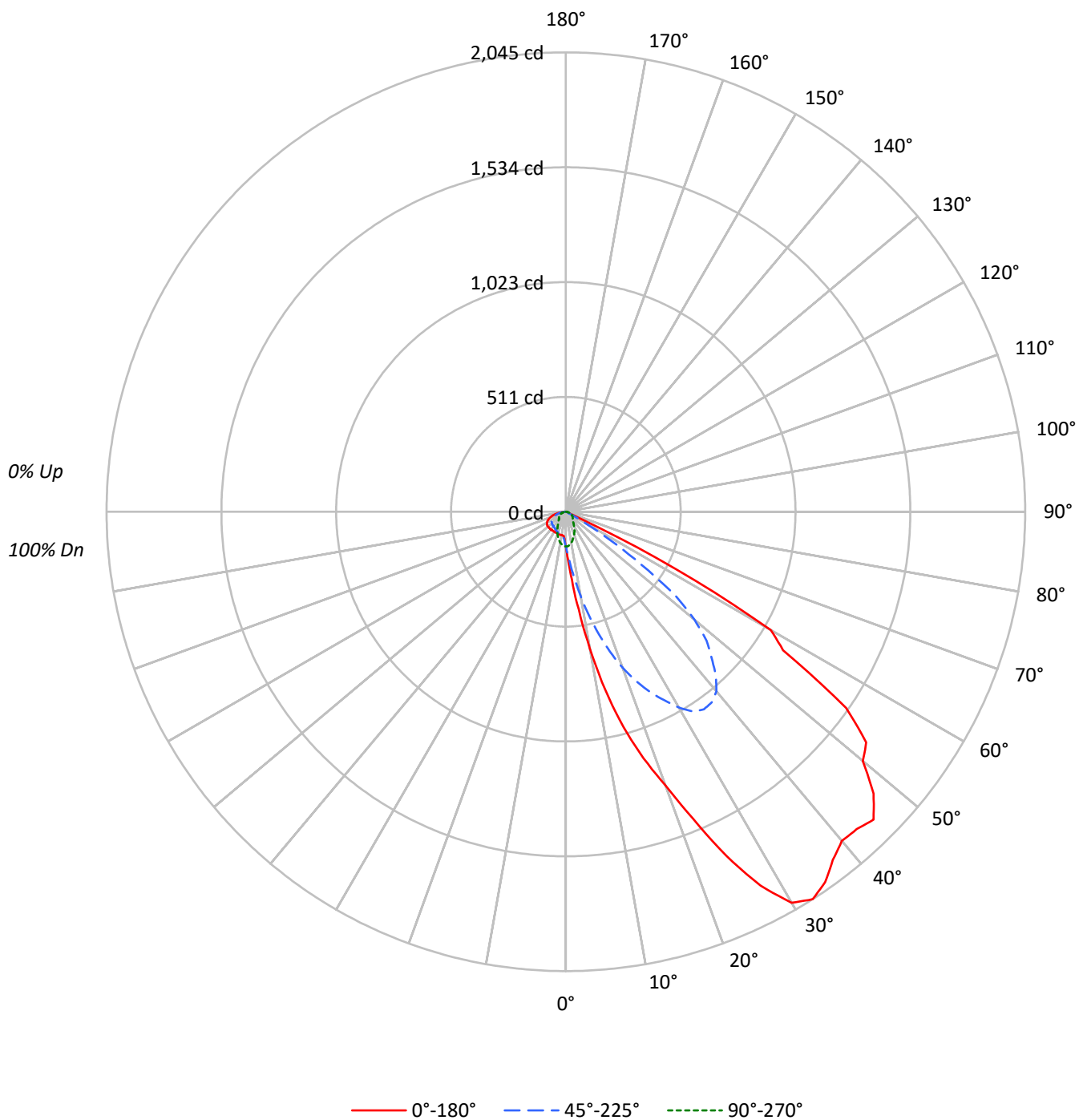
Lumens per Lamp: N/A
Luminaire Lumens: 1557.0 lumens
Efficiency: N/A
Efficacy: 54.1 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1312809

CATALOG NUMBER: P3SQAS20R609727D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1312809

CATALOG NUMBER: P3SQAS20R609727D010 E3SQCA451MB

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	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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	26574	26574	26574	26574	26574
5°	52366	40869	26174	19812	18844
10°	108163	66577	24501	18065	18310
15°	176889	99936	21948	18169	18668
20°	237342	135404	19720	18163	18932
25°	321126	168098	17216	18015	19630
30°	399680	200118	14358	18017	20543
35°	423139	225551	12194	18460	21424
40°	429880	234510	11129	19087	23224
45°	471921	223369	10692	20337	25160
50°	462636	200225	10610	21622	27677
55°	457267	122807	10629	23360	30597
60°	362701	29243	11229	24869	33136
65°	23065	5175	10962	25388	35780
70°	4985	5690	10675	26386	37766
75°	4724	5656	9449	25419	38594
80°	4166	5653	9819	25291	36498
85°	2766	5533	11263	22329	36359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 498114 cd/sqm

TEST NUMBER: P1312809

CATALOG NUMBER: P3SQAS20R609727D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	1.2
10°-20°	97.1	6.2
20°-30°	225.2	14.5
30°-40°	350.0	22.5
40°-50°	398.8	25.6
50°-60°	335.9	21.6
60°-70°	97.5	6.3
70°-80°	25.0	1.6
80°-90°	8.4	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°	341.5	21.9
0°-40°	691.5	44.4
0°-60°	1426.1	91.6
0°-90°	1557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1557.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	154	154	154	154	154	
5°	303	236	151	115	109	39
15°	992	560	123	102	105	287
25°	1690	885	91	95	103	785
35°	2013	1073	58	88	102	1250
45°	1938	917	44	84	103	1457
55°	1523	409	35	78	102	1281
65°	57	13	27	62	88	280
75°	7	8	14	38	58	7
85°	1	3	6	11	18	2
90°	0	0	0	0	0	

TEST NUMBER: P1312809

CATALOG NUMBER: P3SQAS20R609727D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3
2.5°	208.1	206.6	206.6	205.2	203.8	202.4	198.1	196.7	188.2	171.3	154.3
5°	302.9	301.5	297.2	295.8	288.7	278.8	268.9	259.0	236.4	188.2	151.4
7.5°	438.8	441.6	438.8	423.2	413.3	397.7	368.0	346.8	301.5	205.2	145.8
10°	618.5	618.5	614.3	590.2	569.0	539.2	501.0	464.2	380.7	220.8	140.1
12.5°	813.8	818.1	796.8	777.0	738.8	702.0	649.6	594.4	471.3	233.5	133.0
15°	992.1	989.3	968.1	942.6	903.0	852.0	796.8	726.1	560.5	242.0	123.1
17.5°	1150.7	1145.0	1126.6	1098.3	1050.2	993.6	922.8	846.4	652.5	249.1	116.1
20°	1295.0	1275.2	1254.0	1224.3	1177.6	1118.1	1044.5	958.2	738.8	249.1	107.6
22.5°	1477.6	1457.8	1428.1	1382.8	1320.5	1246.9	1160.6	1062.9	815.2	243.4	99.1
25°	1689.9	1674.3	1623.4	1565.4	1484.7	1396.9	1296.4	1164.8	884.6	234.9	90.6
27.5°	1875.3	1858.3	1807.4	1722.5	1624.8	1520.1	1413.9	1279.5	945.4	219.4	80.7
30°	2009.8	1988.5	1948.9	1868.2	1749.4	1622.0	1496.0	1367.2	1006.3	201.0	72.2
32.5°	2045.2	2042.3	2012.6	1953.2	1847.0	1706.9	1556.9	1416.7	1054.4	176.9	65.1
35°	2012.6	2016.9	2011.2	1981.5	1903.6	1766.3	1596.5	1443.6	1072.8	152.9	58.0
37.5°	1953.2	1958.8	1968.7	1973.0	1923.4	1801.7	1619.1	1455.0	1068.6	128.8	53.8
40°	1912.1	1909.3	1909.3	1937.6	1927.7	1817.3	1622.0	1446.5	1043.1	103.3	49.5
42.5°	1916.4	1885.2	1864.0	1909.3	1923.4	1810.2	1603.6	1423.8	987.9	79.3	45.3
45°	1937.6	1871.1	1834.3	1892.3	1914.9	1786.2	1569.6	1389.9	917.1	55.2	43.9
47.5°	1858.3	1814.5	1808.8	1890.9	1899.4	1745.1	1517.2	1336.1	849.2	38.2	41.0
50°	1726.7	1719.6	1749.4	1834.3	1835.7	1677.2	1457.8	1238.4	747.3	26.9	39.6
52.5°	1685.7	1689.9	1716.8	1760.7	1719.6	1562.5	1350.2	1156.3	618.5	21.2	38.2
55°	1522.9	1530.0	1555.5	1582.3	1552.6	1422.4	1220.0	1057.3	409.0	19.8	35.4
57.5°	1146.4	1164.8	1211.5	1235.6	1238.4	1159.2	1105.4	911.5	230.7	19.8	34.0
60°	1053.0	1028.9	1007.7	958.2	912.9	903.0	908.6	683.6	84.9	18.4	32.6
62.5°	550.6	539.2	571.8	593.0	598.7	629.8	588.8	360.9	18.4	18.4	29.7
65°	56.6	56.6	69.4	92.0	152.9	203.8	193.9	104.7	12.7	17.0	26.9
67.5°	17.0	17.0	17.0	19.8	25.5	25.5	21.2	15.6	12.7	15.6	24.1
70°	9.9	9.9	9.9	9.9	9.9	9.9	11.3	9.9	11.3	14.2	21.2
72.5°	8.5	8.5	8.5	8.5	9.9	9.9	9.9	9.9	9.9	12.7	18.4
75°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.5	8.5	9.9	14.2
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	7.1	7.1	7.1	8.5	11.3
80°	4.2	4.2	4.2	4.2	4.2	5.7	5.7	5.7	5.7	7.1	9.9
82.5°	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2	4.2	5.7	7.1
85°	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	5.7
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	4.2
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: P1312809

CATALOG NUMBER: P3SQAS20R609727D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	154.3	154.3	154.3	154.3
2.5°	140.1	130.2	124.5	121.7
5°	127.4	114.6	110.4	109.0
7.5°	116.1	107.6	106.2	106.2
10°	109.0	103.3	104.7	104.7
12.5°	104.7	103.3	104.7	106.2
15°	100.5	101.9	104.7	104.7
17.5°	97.7	100.5	103.3	104.7
20°	93.4	99.1	103.3	103.3
22.5°	90.6	97.7	101.9	103.3
25°	87.8	94.8	100.5	103.3
27.5°	83.5	93.4	100.5	101.9
30°	79.3	90.6	99.1	103.3
32.5°	75.0	89.2	99.1	101.9
35°	72.2	87.8	99.1	101.9
37.5°	69.4	86.3	99.1	103.3
40°	67.9	84.9	97.7	103.3
42.5°	65.1	84.9	97.7	103.3
45°	63.7	83.5	97.7	103.3
47.5°	62.3	82.1	97.7	103.3
50°	59.4	80.7	96.2	103.3
52.5°	58.0	79.3	96.2	103.3
55°	55.2	77.8	94.8	101.9
57.5°	53.8	75.0	93.4	99.1
60°	51.0	72.2	90.6	96.2
62.5°	46.7	67.9	86.3	93.4
65°	42.5	62.3	82.1	87.8
67.5°	38.2	58.0	76.4	82.1
70°	34.0	52.4	69.4	75.0
72.5°	29.7	45.3	62.3	66.5
75°	25.5	38.2	52.4	58.0
77.5°	19.8	31.1	43.9	48.1
80°	15.6	25.5	34.0	36.8
82.5°	12.7	18.4	25.5	26.9
85°	8.5	11.3	15.6	18.4
87.5°	4.2	5.7	7.1	8.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)