

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: P1310470

Luminaire Tested: P3SQAS17R609040DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310470
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: P3SQAS17R609040DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

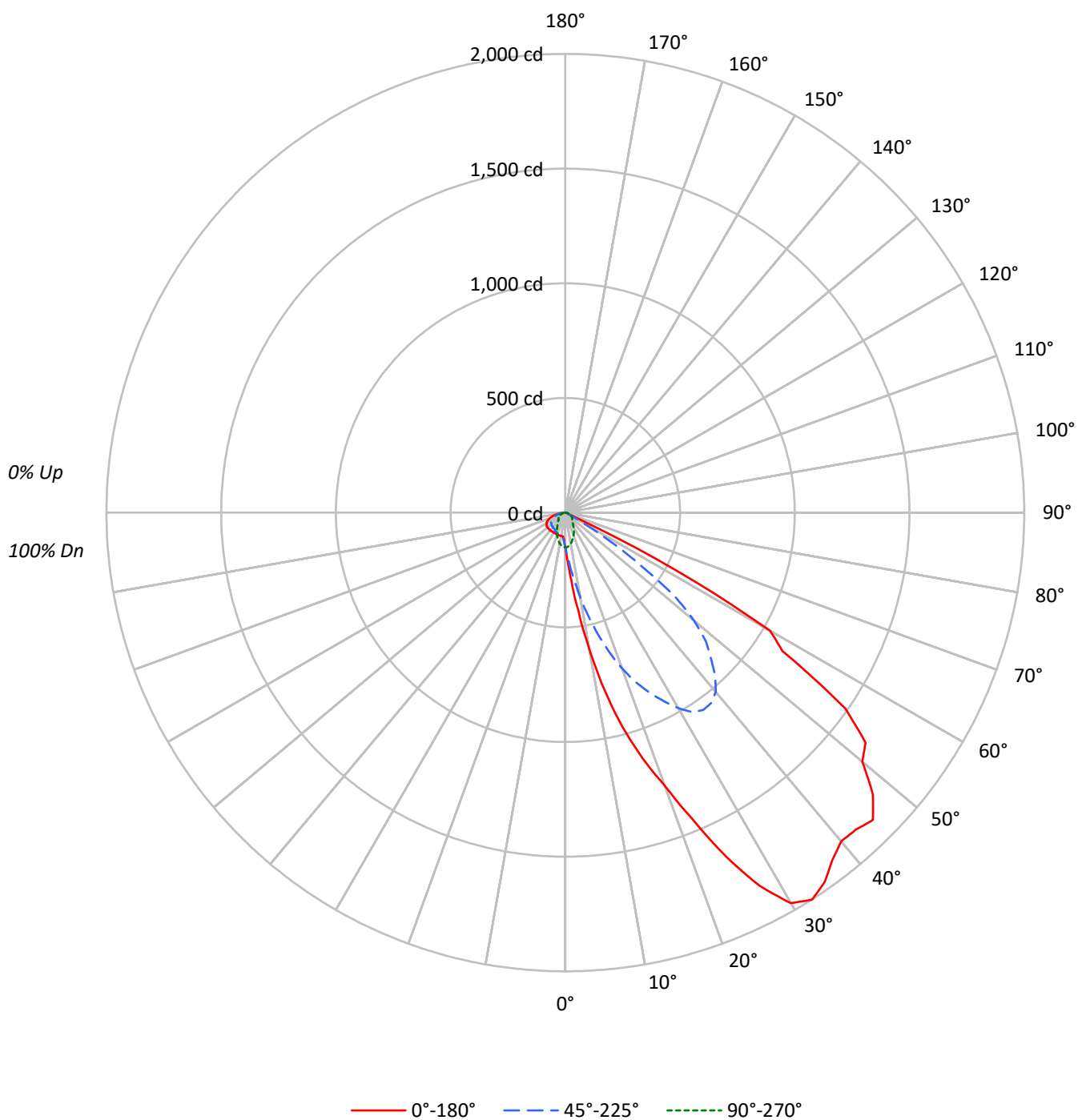
Lumens per Lamp: N/A
Luminaire Lumens: 1523.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: P1310470

CATALOG NUMBER: P3SQAS17R609040DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1310470

CATALOG NUMBER: P3SQAS17R609040DE010 E3SQCA451MW

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°	25988	25988	25988	25988	25988
5°	51224	39970	25604	19380	18429
10°	105802	65125	23976	17680	17908
15°	173038	97743	21467	17776	18258
20°	232173	132453	19281	17759	18529
25°	314114	164430	16836	17634	19212
30°	390950	195743	14040	17619	20105
35°	413909	220631	11942	18039	20961
40°	420505	229385	10904	18683	22729
45°	461618	218497	10449	19899	24624
50°	452535	195857	10396	21140	27088
55°	447269	120134	10389	22850	29936
60°	354779	28623	10953	24318	32412
65°	22576	5094	10718	24818	34965
70°	4884	5589	10474	25782	36960
75°	4591	5523	9183	24887	37796
80°	4166	5455	9620	24696	35704
85°	2766	5533	10868	21934	35569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 487222 cd/sqm

TEST NUMBER: P1310470

CATALOG NUMBER: P3SQAS17R609040DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.8	1.2
10°-20°	94.9	6.2
20°-30°	220.2	14.5
30°-40°	342.3	22.5
40°-50°	390.1	25.6
50°-60°	328.5	21.6
60°-70°	95.3	6.3
70°-80°	24.4	1.6
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°	334.0	21.9
0°-40°	676.4	44.4
0°-60°	1395.0	91.6
0°-90°	1523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	151	151	151	151	151	
5°	296	231	148	112	107	38
15°	970	548	120	100	102	281
25°	1653	865	89	93	101	768
35°	1969	1049	57	86	100	1223
45°	1895	897	43	82	101	1425
55°	1490	400	35	76	100	1253
65°	55	12	26	61	86	274
75°	7	8	14	37	57	7
85°	1	3	6	11	18	2
90°	0	0	0	0	0	

TEST NUMBER: P1310470

CATALOG NUMBER: P3SQAS17R609040DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9	150.9
2.5°	203.5	202.1	202.1	200.7	199.4	198.0	193.8	192.4	184.1	167.5	150.9
5°	296.3	294.9	290.7	289.3	282.4	272.7	263.0	253.4	231.2	184.1	148.1
7.5°	429.2	431.9	429.2	413.9	404.3	389.0	360.0	339.2	294.9	200.7	142.6
10°	605.0	605.0	600.8	577.3	556.5	527.5	490.1	454.1	372.4	216.0	137.1
12.5°	796.0	800.2	779.4	760.1	722.7	686.7	635.5	581.5	461.0	228.4	130.1
15°	970.5	967.7	946.9	922.0	883.3	833.4	779.4	710.2	548.2	236.7	120.4
17.5°	1125.5	1120.0	1102.0	1074.3	1027.2	971.9	902.6	827.9	638.2	243.7	113.5
20°	1266.8	1247.4	1226.6	1197.5	1151.8	1093.7	1021.7	937.3	722.7	243.7	105.2
22.5°	1445.3	1426.0	1396.9	1352.6	1291.7	1219.7	1135.2	1039.7	797.4	238.1	96.9
25°	1653.0	1637.8	1587.9	1531.2	1452.3	1366.4	1268.1	1139.4	865.3	229.8	88.6
27.5°	1834.4	1817.8	1767.9	1684.8	1589.3	1486.9	1383.0	1251.5	924.8	214.6	78.9
30°	1965.9	1945.1	1906.4	1827.4	1711.2	1586.6	1463.3	1337.4	984.3	196.6	70.6
32.5°	2000.5	1997.7	1968.7	1910.5	1806.7	1669.6	1522.9	1385.8	1031.4	173.1	63.7
35°	1968.7	1972.8	1967.3	1938.2	1862.1	1727.8	1561.6	1412.1	1049.4	149.5	56.8
37.5°	1910.5	1916.0	1925.7	1929.9	1881.4	1762.4	1583.8	1423.2	1045.2	126.0	52.6
40°	1870.4	1867.6	1867.6	1895.3	1885.6	1777.6	1586.6	1414.9	1020.3	101.1	48.5
42.5°	1874.5	1844.1	1823.3	1867.6	1881.4	1770.7	1568.6	1392.7	966.3	77.5	44.3
45°	1895.3	1830.2	1794.2	1851.0	1873.1	1747.1	1535.3	1359.5	897.1	54.0	42.9
47.5°	1817.8	1774.8	1769.3	1849.6	1857.9	1707.0	1484.1	1306.9	830.7	37.4	40.1
50°	1689.0	1682.1	1711.2	1794.2	1795.6	1640.5	1426.0	1211.4	731.0	26.3	38.8
52.5°	1648.9	1653.0	1679.3	1722.2	1682.1	1528.4	1320.7	1131.1	605.0	20.8	37.4
55°	1489.6	1496.6	1521.5	1547.8	1518.7	1391.3	1193.4	1034.2	400.1	19.4	34.6
57.5°	1121.4	1139.4	1185.1	1208.6	1211.4	1133.8	1081.2	891.6	225.7	19.4	33.2
60°	1030.0	1006.5	985.7	937.3	893.0	883.3	888.8	668.7	83.1	18.0	31.8
62.5°	538.5	527.5	559.3	580.1	585.6	616.1	575.9	353.0	18.0	18.0	29.1
65°	55.4	55.4	67.8	90.0	149.5	199.4	189.7	102.4	12.5	16.6	26.3
67.5°	16.6	16.6	16.6	19.4	24.9	24.9	20.8	15.2	12.5	15.2	23.5
70°	9.7	9.7	9.7	9.7	9.7	9.7	11.1	9.7	11.1	13.8	20.8
72.5°	8.3	8.3	8.3	8.3	9.7	9.7	9.7	9.7	9.7	12.5	18.0
75°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	8.3	8.3	9.7	13.8
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	6.9	6.9	6.9	8.3	11.1
80°	4.2	4.2	4.2	4.2	4.2	5.5	5.5	5.5	5.5	6.9	9.7
82.5°	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2	4.2	5.5	6.9
85°	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	5.5
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: P1310470

CATALOG NUMBER: P3SQAS17R609040DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	150.9	150.9	150.9	150.9
2.5°	137.1	127.4	121.8	119.1
5°	124.6	112.1	108.0	106.6
7.5°	113.5	105.2	103.8	103.8
10°	106.6	101.1	102.4	102.4
12.5°	102.4	101.1	102.4	103.8
15°	98.3	99.7	102.4	102.4
17.5°	95.5	98.3	101.1	102.4
20°	91.4	96.9	101.1	101.1
22.5°	88.6	95.5	99.7	101.1
25°	85.8	92.8	98.3	101.1
27.5°	81.7	91.4	98.3	99.7
30°	77.5	88.6	96.9	101.1
32.5°	73.4	87.2	96.9	99.7
35°	70.6	85.8	96.9	99.7
37.5°	67.8	84.5	96.9	101.1
40°	66.5	83.1	95.5	101.1
42.5°	63.7	83.1	95.5	101.1
45°	62.3	81.7	95.5	101.1
47.5°	60.9	80.3	95.5	101.1
50°	58.1	78.9	94.1	101.1
52.5°	56.8	77.5	94.1	101.1
55°	54.0	76.1	92.8	99.7
57.5°	52.6	73.4	91.4	96.9
60°	49.8	70.6	88.6	94.1
62.5°	45.7	66.5	84.5	91.4
65°	41.5	60.9	80.3	85.8
67.5°	37.4	56.8	74.8	80.3
70°	33.2	51.2	67.8	73.4
72.5°	29.1	44.3	60.9	65.1
75°	24.9	37.4	51.2	56.8
77.5°	19.4	30.5	42.9	47.1
80°	15.2	24.9	33.2	36.0
82.5°	12.5	18.0	24.9	26.3
85°	8.3	11.1	15.2	18.0
87.5°	4.2	5.5	6.9	8.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)