

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: P1308232

Luminaire Tested: P3SQAS17R609030DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308232
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: P3SQAS17R609030DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

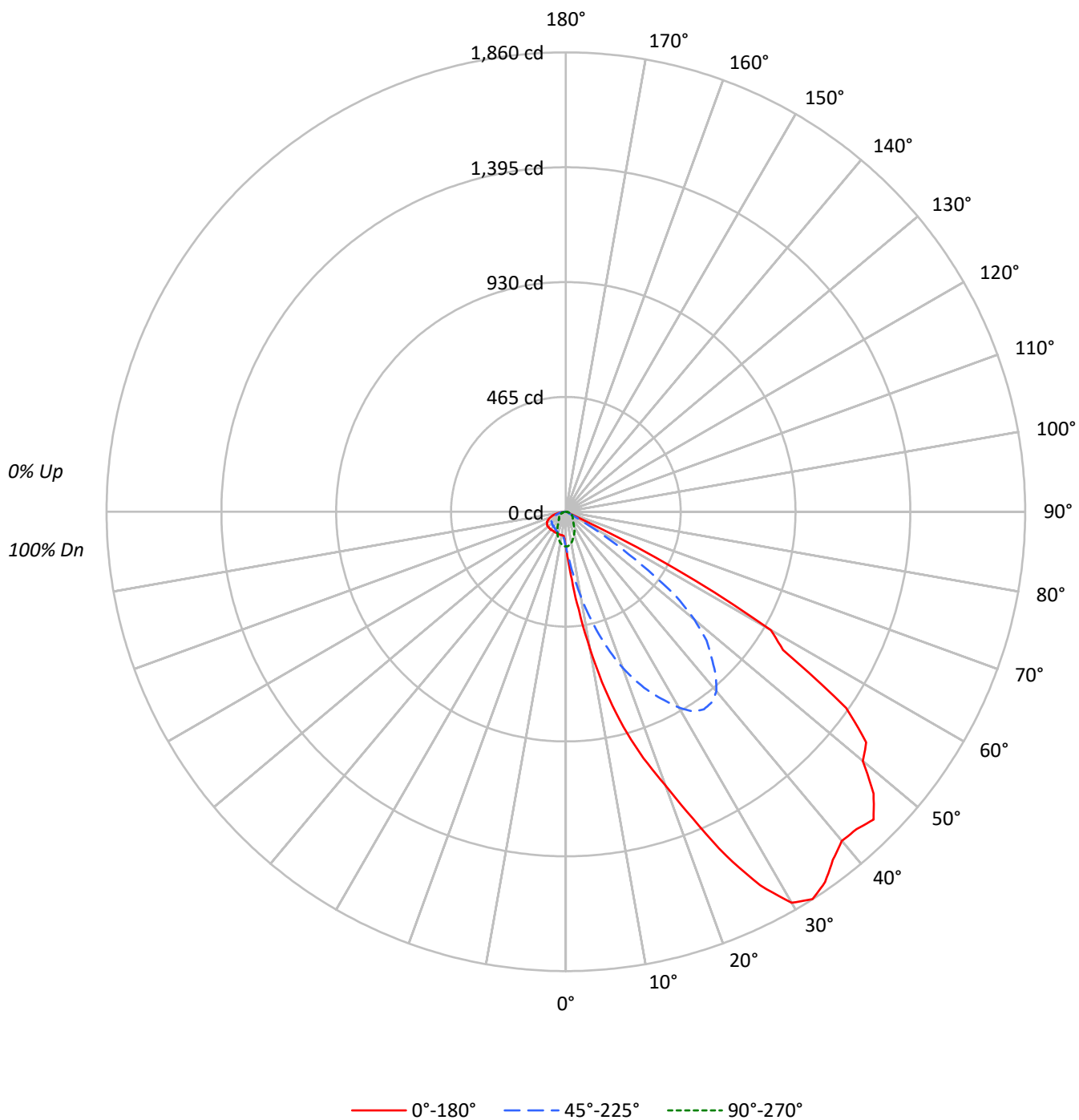
Lumens per Lamp: N/A
Luminaire Lumens: 1416.0 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1308232

CATALOG NUMBER: P3SQAS17R609030DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1308232

CATALOG NUMBER: P3SQAS17R609030DE010 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
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°	24163	24163	24163	24163	24163
5°	47629	37169	23806	18031	17132
10°	98370	60543	22280	16439	16666
15°	160878	90878	19969	16528	16992
20°	215862	123143	17924	16513	17228
25°	292052	152876	15658	16380	17863
30°	363486	182002	13046	16387	18693
35°	384811	205136	11101	16778	19490
40°	390963	213265	10139	17356	21133
45°	429176	203153	9718	18486	22895
50°	420732	182086	9646	19666	25186
55°	415862	111697	9668	21258	27834
60°	329841	26591	10196	22596	30139
65°	20987	4727	9984	23065	32520
70°	4532	5187	9718	23969	34342
75°	4259	5124	8584	23157	35134
80°	3868	5058	8926	23010	33225
85°	2569	5138	10078	20353	33000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 452990 cd/sqm

TEST NUMBER: P1308232

CATALOG NUMBER: P3SQAS17R609030DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	1.2
10°-20°	88.3	6.2
20°-30°	204.8	14.5
30°-40°	318.3	22.5
40°-50°	362.7	25.6
50°-60°	305.5	21.6
60°-70°	88.6	6.3
70°-80°	22.7	1.6
80°-90°	7.7	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°	310.6	21.9
0°-40°	628.8	44.4
0°-60°	1297.0	91.6
0°-90°	1416.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1416.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	140	140	140	140	140	
5°	276	215	138	104	99	35
15°	902	510	112	93	95	261
25°	1537	804	82	86	94	714
35°	1830	976	53	80	93	1137
45°	1762	834	40	76	94	1325
55°	1385	372	32	71	93	1165
65°	52	12	24	57	80	255
75°	6	8	13	35	53	7
85°	1	3	5	10	17	2
90°	0	0	0	0	0	

TEST NUMBER: P1308232

CATALOG NUMBER: P3SQAS17R609030DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3	140.3
2.5°	189.2	187.9	187.9	186.6	185.4	184.1	180.2	178.9	171.2	155.7	140.3
5°	275.5	274.2	270.3	269.0	262.6	253.6	244.6	235.6	215.0	171.2	137.7
7.5°	399.0	401.6	399.0	384.9	375.9	361.7	334.7	315.4	274.2	186.6	132.6
10°	562.5	562.5	558.6	536.7	517.4	490.4	455.7	422.2	346.2	200.8	127.4
12.5°	740.1	744.0	724.7	706.7	671.9	638.4	590.8	540.6	428.6	212.4	121.0
15°	902.3	899.7	880.4	857.3	821.2	774.9	724.7	660.3	509.7	220.1	112.0
17.5°	1046.5	1041.3	1024.6	998.8	955.1	903.6	839.2	769.7	593.4	226.5	105.5
20°	1177.8	1159.7	1140.4	1113.4	1070.9	1016.9	949.9	871.4	671.9	226.5	97.8
22.5°	1343.8	1325.8	1298.7	1257.6	1200.9	1134.0	1055.5	966.7	741.4	221.4	90.1
25°	1536.9	1522.7	1476.4	1423.6	1350.2	1270.4	1179.0	1059.3	804.5	213.7	82.4
27.5°	1705.5	1690.0	1643.7	1566.5	1477.7	1382.4	1285.9	1163.6	859.8	199.5	73.4
30°	1827.8	1808.5	1772.4	1699.1	1590.9	1475.1	1360.5	1243.4	915.2	182.8	65.6
32.5°	1860.0	1857.4	1830.3	1776.3	1679.7	1552.3	1415.9	1288.4	958.9	160.9	59.2
35°	1830.3	1834.2	1829.1	1802.0	1731.2	1606.4	1451.9	1312.9	975.7	139.0	52.8
37.5°	1776.3	1781.4	1790.4	1794.3	1749.3	1638.6	1472.5	1323.2	971.8	117.1	48.9
40°	1739.0	1736.4	1736.4	1762.1	1753.1	1652.7	1475.1	1315.5	948.6	94.0	45.1
42.5°	1742.8	1714.5	1695.2	1736.4	1749.3	1646.3	1458.4	1294.9	898.4	72.1	41.2
45°	1762.1	1701.6	1668.2	1720.9	1741.5	1624.4	1427.5	1264.0	834.1	50.2	39.9
47.5°	1690.0	1650.1	1645.0	1719.6	1727.4	1587.1	1379.8	1215.1	772.3	34.8	37.3
50°	1570.3	1563.9	1590.9	1668.2	1669.5	1525.3	1325.8	1126.3	679.6	24.5	36.0
52.5°	1533.0	1536.9	1561.3	1601.2	1563.9	1421.0	1228.0	1051.6	562.5	19.3	34.8
55°	1385.0	1391.4	1414.6	1439.0	1412.0	1293.6	1109.5	961.5	372.0	18.0	32.2
57.5°	1042.6	1059.3	1101.8	1123.7	1126.3	1054.2	1005.3	828.9	209.8	18.0	30.9
60°	957.6	935.8	916.5	871.4	830.2	821.2	826.4	621.7	77.2	16.7	29.6
62.5°	500.7	490.4	520.0	539.3	544.5	572.8	535.5	328.2	16.7	16.7	27.0
65°	51.5	51.5	63.1	83.7	139.0	185.4	176.3	95.3	11.6	15.4	24.5
67.5°	15.4	15.4	15.4	18.0	23.2	23.2	19.3	14.2	11.6	14.2	21.9
70°	9.0	9.0	9.0	9.0	9.0	9.0	10.3	9.0	10.3	12.9	19.3
72.5°	7.7	7.7	7.7	7.7	9.0	9.0	9.0	9.0	9.0	11.6	16.7
75°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.7	7.7	9.0	12.9
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	6.4	6.4	6.4	7.7	10.3
80°	3.9	3.9	3.9	3.9	3.9	5.1	5.1	5.1	5.1	6.4	9.0
82.5°	2.6	2.6	2.6	2.6	3.9	3.9	3.9	3.9	3.9	5.1	6.4
85°	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	5.1
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	3.9
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: P1308232

CATALOG NUMBER: P3SQAS17R609030DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	140.3	140.3	140.3	140.3
2.5°	127.4	118.4	113.3	110.7
5°	115.8	104.3	100.4	99.1
7.5°	105.5	97.8	96.5	96.5
10°	99.1	94.0	95.3	95.3
12.5°	95.3	94.0	95.3	96.5
15°	91.4	92.7	95.3	95.3
17.5°	88.8	91.4	94.0	95.3
20°	85.0	90.1	94.0	94.0
22.5°	82.4	88.8	92.7	94.0
25°	79.8	86.2	91.4	94.0
27.5°	75.9	85.0	91.4	92.7
30°	72.1	82.4	90.1	94.0
32.5°	68.2	81.1	90.1	92.7
35°	65.6	79.8	90.1	92.7
37.5°	63.1	78.5	90.1	94.0
40°	61.8	77.2	88.8	94.0
42.5°	59.2	77.2	88.8	94.0
45°	57.9	75.9	88.8	94.0
47.5°	56.6	74.7	88.8	94.0
50°	54.1	73.4	87.5	94.0
52.5°	52.8	72.1	87.5	94.0
55°	50.2	70.8	86.2	92.7
57.5°	48.9	68.2	85.0	90.1
60°	46.3	65.6	82.4	87.5
62.5°	42.5	61.8	78.5	85.0
65°	38.6	56.6	74.7	79.8
67.5°	34.8	52.8	69.5	74.7
70°	30.9	47.6	63.1	68.2
72.5°	27.0	41.2	56.6	60.5
75°	23.2	34.8	47.6	52.8
77.5°	18.0	28.3	39.9	43.8
80°	14.2	23.2	30.9	33.5
82.5°	11.6	16.7	23.2	24.5
85°	7.7	10.3	14.2	16.7
87.5°	3.9	5.1	6.4	7.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)