

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: P1311546

Luminaire Tested: P3SQAS17R609050DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311546
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: P3SQAS17R609050DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

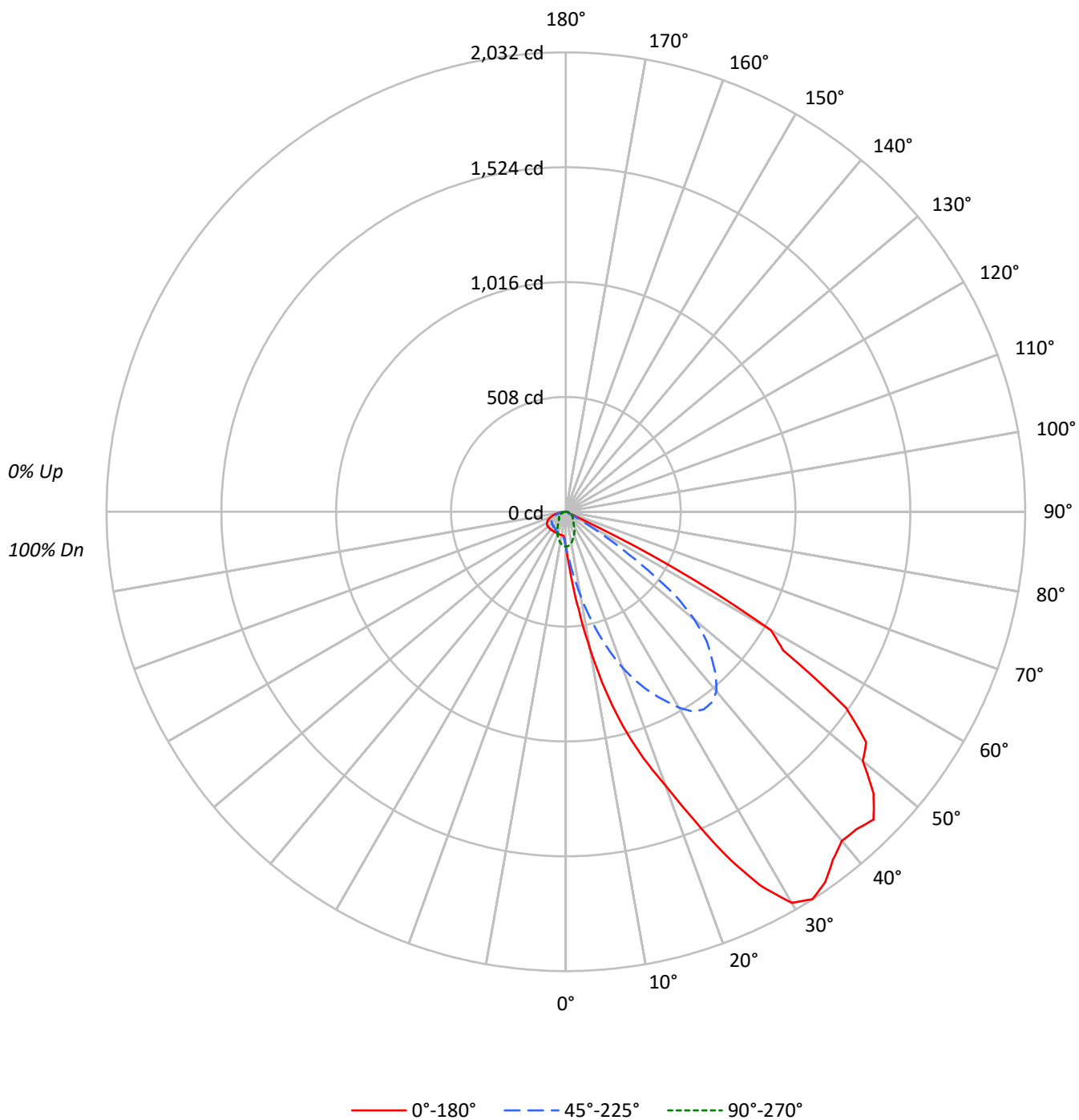
Lumens per Lamp: N/A
Luminaire Lumens: 1547.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311546

CATALOG NUMBER: P3SQAS17R609050DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311546

CATALOG NUMBER: P3SQAS17R609050DE010 E3SQCA451MMS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
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°	26402	26402	26402	26402	26402
5°	52020	40592	26019	19691	18723
10°	107463	66157	24343	17960	18205
15°	175766	99294	21806	18044	18561
20°	235821	134543	19592	18034	18822
25°	319074	167014	17102	17901	19516
30°	397115	198826	14259	17898	20423
35°	420427	224100	12131	18333	21277
40°	427114	233004	11061	18975	23089
45°	468877	221932	10619	20215	25014
50°	459662	198939	10556	21488	27516
55°	454325	122026	10569	23210	30386
60°	360359	29071	11126	24697	32929
65°	22902	5175	10881	25225	35535
70°	4935	5640	10625	26184	37514
75°	4658	5590	9382	25286	38395
80°	4166	5554	9720	25092	36300
85°	2766	5533	11066	22132	36161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 494917 cd/sqm

TEST NUMBER: P1311546

CATALOG NUMBER: P3SQAS17R609050DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	1.2
10°-20°	96.4	6.2
20°-30°	223.7	14.5
30°-40°	347.7	22.5
40°-50°	396.2	25.6
50°-60°	333.7	21.6
60°-70°	96.8	6.3
70°-80°	24.8	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°	339.3	21.9
0°-40°	687.0	44.4
0°-60°	1417.0	91.6
0°-90°	1547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1547.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	153	153	153	153	153	
5°	301	235	150	114	108	39
15°	986	557	122	101	104	285
25°	1679	879	90	94	103	780
35°	2000	1066	58	87	101	1242
45°	1925	911	44	83	103	1447
55°	1513	406	35	77	101	1273
65°	56	13	27	62	87	278
75°	7	8	14	38	58	7
85°	1	3	6	11	18	2
90°	0	0	0	0	0	

TEST NUMBER: P1311546

CATALOG NUMBER: P3SQAS17R609050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3	153.3
2.5°	206.7	205.3	205.3	203.9	202.5	201.1	196.9	195.5	187.0	170.2	153.3
5°	300.9	299.5	295.3	293.9	286.9	277.0	267.2	257.3	234.8	187.0	150.5
7.5°	435.9	438.7	435.9	420.5	410.6	395.2	365.6	344.5	299.5	203.9	144.8
10°	614.5	614.5	610.3	586.4	565.3	535.8	497.8	461.2	378.3	219.4	139.2
12.5°	808.6	812.8	791.7	772.0	734.1	697.5	645.5	590.6	468.3	232.0	132.2
15°	985.8	983.0	961.9	936.6	897.2	846.6	791.7	721.4	556.9	240.5	122.3
17.5°	1143.3	1137.7	1119.4	1091.2	1043.4	987.2	916.9	840.9	648.3	247.5	115.3
20°	1286.7	1267.0	1245.9	1216.4	1170.0	1110.9	1037.8	952.0	734.1	247.5	106.9
22.5°	1468.1	1448.4	1418.9	1373.9	1312.0	1238.9	1153.1	1056.1	810.0	241.9	98.4
25°	1679.1	1663.6	1613.0	1555.3	1475.1	1388.0	1288.1	1157.3	878.9	233.4	90.0
27.5°	1863.3	1846.4	1795.8	1711.4	1614.4	1510.3	1404.8	1271.2	939.4	218.0	80.2
30°	1996.9	1975.8	1936.4	1856.2	1738.1	1611.6	1486.4	1358.4	999.8	199.7	71.7
32.5°	2032.0	2029.2	1999.7	1940.6	1835.1	1695.9	1546.9	1407.6	1047.7	175.8	64.7
35°	1999.7	2003.9	1998.3	1968.7	1891.4	1755.0	1586.2	1434.4	1065.9	151.9	57.7
37.5°	1940.6	1946.2	1956.1	1960.3	1911.1	1790.1	1608.7	1445.6	1061.7	128.0	53.4
40°	1899.8	1897.0	1897.0	1925.1	1915.3	1805.6	1611.6	1437.2	1036.4	102.7	49.2
42.5°	1904.1	1873.1	1852.0	1897.0	1911.1	1798.6	1593.3	1414.7	981.6	78.7	45.0
45°	1925.1	1859.1	1822.5	1880.1	1902.6	1774.7	1559.5	1380.9	911.2	54.8	43.6
47.5°	1846.4	1802.8	1797.2	1878.7	1887.2	1733.9	1507.5	1327.5	843.7	38.0	40.8
50°	1715.6	1708.6	1738.1	1822.5	1823.9	1666.4	1448.4	1230.5	742.5	26.7	39.4
52.5°	1674.8	1679.1	1705.8	1749.4	1708.6	1552.5	1341.6	1148.9	614.5	21.1	38.0
55°	1513.1	1520.1	1545.5	1572.2	1542.6	1413.3	1212.2	1050.5	406.4	19.7	35.2
57.5°	1139.1	1157.3	1203.7	1227.7	1230.5	1151.7	1098.3	905.6	229.2	19.7	33.7
60°	1046.2	1022.3	1001.2	952.0	907.0	897.2	902.8	679.2	84.4	18.3	32.3
62.5°	547.0	535.8	568.1	589.2	594.8	625.8	585.0	358.6	18.3	18.3	29.5
65°	56.2	56.2	68.9	91.4	151.9	202.5	192.7	104.1	12.7	16.9	26.7
67.5°	16.9	16.9	16.9	19.7	25.3	25.3	21.1	15.5	12.7	15.5	23.9
70°	9.8	9.8	9.8	9.8	9.8	9.8	11.2	9.8	11.2	14.1	21.1
72.5°	8.4	8.4	8.4	8.4	9.8	9.8	9.8	9.8	9.8	12.7	18.3
75°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.4	8.4	9.8	14.1
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	7.0	7.0	7.0	8.4	11.2
80°	4.2	4.2	4.2	4.2	4.2	5.6	5.6	5.6	5.6	7.0	9.8
82.5°	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2	4.2	5.6	7.0
85°	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	5.6
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: P1311546

CATALOG NUMBER: P3SQAS17R609050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	153.3	153.3	153.3	153.3
2.5°	139.2	129.4	123.7	120.9
5°	126.6	113.9	109.7	108.3
7.5°	115.3	106.9	105.5	105.5
10°	108.3	102.7	104.1	104.1
12.5°	104.1	102.7	104.1	105.5
15°	99.8	101.2	104.1	104.1
17.5°	97.0	99.8	102.7	104.1
20°	92.8	98.4	102.7	102.7
22.5°	90.0	97.0	101.2	102.7
25°	87.2	94.2	99.8	102.7
27.5°	83.0	92.8	99.8	101.2
30°	78.7	90.0	98.4	102.7
32.5°	74.5	88.6	98.4	101.2
35°	71.7	87.2	98.4	101.2
37.5°	68.9	85.8	98.4	102.7
40°	67.5	84.4	97.0	102.7
42.5°	64.7	84.4	97.0	102.7
45°	63.3	83.0	97.0	102.7
47.5°	61.9	81.6	97.0	102.7
50°	59.1	80.2	95.6	102.7
52.5°	57.7	78.7	95.6	102.7
55°	54.8	77.3	94.2	101.2
57.5°	53.4	74.5	92.8	98.4
60°	50.6	71.7	90.0	95.6
62.5°	46.4	67.5	85.8	92.8
65°	42.2	61.9	81.6	87.2
67.5°	38.0	57.7	75.9	81.6
70°	33.7	52.0	68.9	74.5
72.5°	29.5	45.0	61.9	66.1
75°	25.3	38.0	52.0	57.7
77.5°	19.7	30.9	43.6	47.8
80°	15.5	25.3	33.7	36.6
82.5°	12.7	18.3	25.3	26.7
85°	8.4	11.2	15.5	18.3
87.5°	4.2	5.6	7.0	8.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)