

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: P1312635

Luminaire Tested: P3SQAS17R509727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312635
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: P3SQAS17R509727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

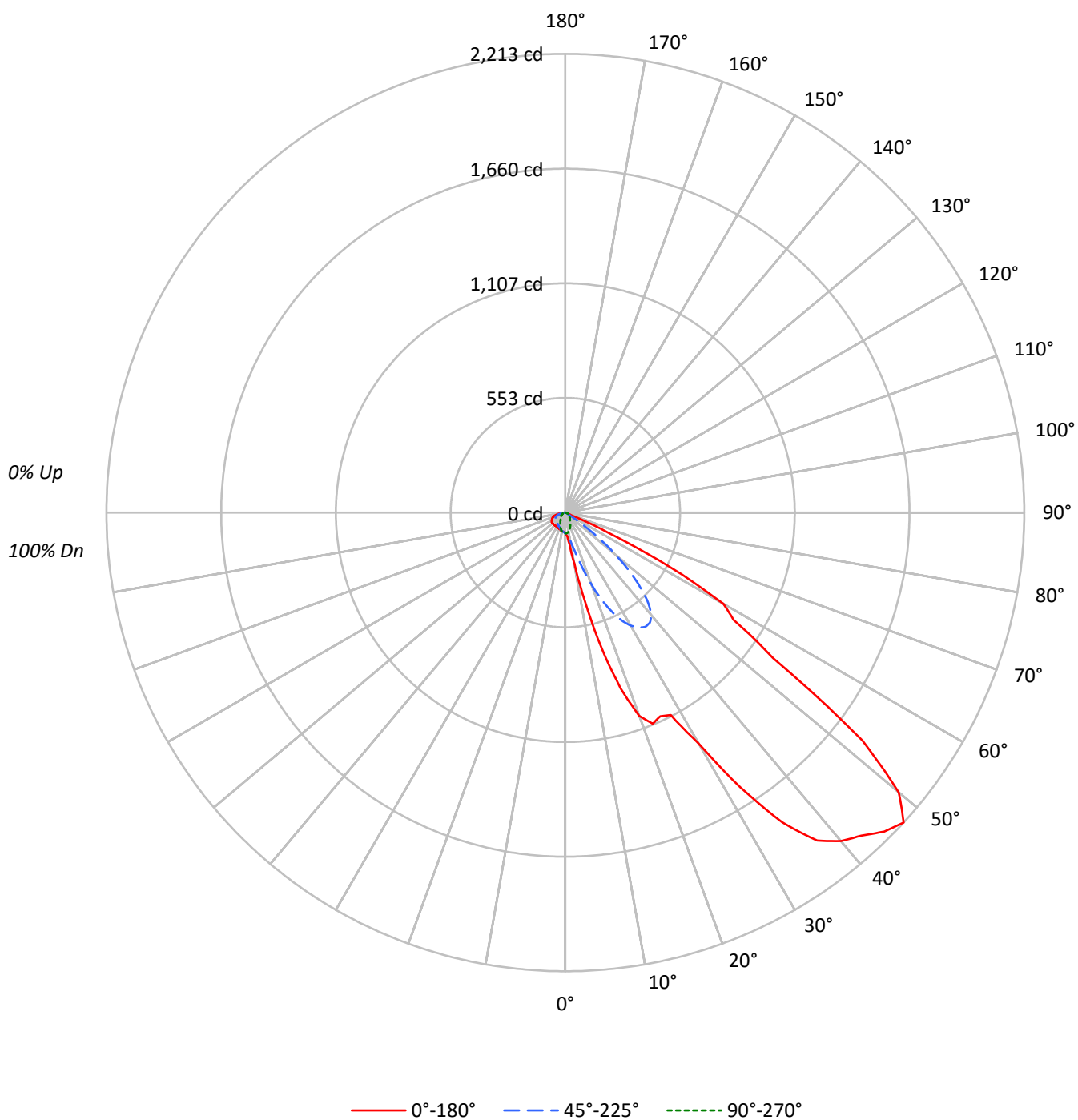
Lumens per Lamp: N/A
Luminaire Lumens: 1248.0 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1312635

CATALOG NUMBER: P3SQAS17R509727DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312635

CATALOG NUMBER: P3SQAS17R509727DE010 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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	17084	17084	17084	17084	17084
5°	20313	19017	16960	16216	16026
10°	43737	23556	16211	15652	15827
15°	121082	38637	14603	14995	15565
20°	191431	67757	12646	14424	15212
25°	205856	99555	10851	13929	15354
30°	255522	124967	9426	13722	15869
35°	383466	141411	8158	13834	16778
40°	465064	145414	7262	14299	17693
45°	529815	124703	7088	15222	19436
50°	562333	86059	7207	16451	21649
55°	367369	34620	7116	17805	23961
60°	302974	5924	7061	19323	26350
65°	91365	3056	6602	20661	28974
70°	3777	3273	6496	21149	31472
75°	3593	3593	6455	21493	34402
80°	3174	3174	6447	21423	35308
85°	2174	4347	8497	21341	33988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 564142 cd/sqm

TEST NUMBER: P1312635

CATALOG NUMBER: P3SQAS17R509727DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.3	0.8
10°-20°	59.1	4.7
20°-30°	151.9	12.2
30°-40°	272.9	21.9
40°-50°	364.5	29.2
50°-60°	277.6	22.2
60°-70°	84.3	6.8
70°-80°	20.1	1.6
80°-90°	7.3	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°	221.3	17.7
0°-40°	494.2	39.6
0°-60°	1136.3	91.1
0°-90°	1248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1248.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	99	99	99	99	99	
5°	118	110	98	94	93	15
15°	679	217	82	84	87	200
25°	1083	524	57	73	81	517
35°	1824	673	39	66	80	1120
45°	2175	512	29	62	80	1663
55°	1224	115	24	59	80	1217
65°	224	8	16	51	71	310
75°	5	5	10	32	52	6
85°	1	2	4	11	17	2
90°	0	0	0	0	0	

TEST NUMBER: P1312635

CATALOG NUMBER: P3SQAS17R509727DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
2.5°	105.6	105.6	105.6	105.6	105.6	105.6	104.6	104.6	104.6	102.4	100.2
5°	117.5	118.6	117.5	117.5	115.3	115.3	113.2	113.2	110.0	103.5	98.1
7.5°	154.1	153.1	152.0	147.7	144.4	136.9	133.7	128.3	118.6	103.5	95.9
10°	250.1	243.6	239.3	229.6	209.1	196.2	178.9	161.7	134.7	103.5	92.7
12.5°	434.4	433.3	420.4	388.1	359.0	319.1	277.0	235.0	166.0	101.3	88.4
15°	679.1	669.4	651.1	613.4	561.6	499.1	423.6	349.3	216.7	98.1	81.9
17.5°	888.2	876.4	862.4	824.6	765.3	686.7	596.1	493.7	285.7	93.8	75.5
20°	1044.5	1037.0	1025.1	994.9	938.9	867.7	766.4	642.5	369.7	88.4	69.0
22.5°	1101.7	1100.6	1102.7	1092.0	1063.9	1007.9	910.9	781.5	452.7	81.9	62.5
25°	1083.3	1082.3	1096.3	1110.3	1116.8	1094.1	1019.7	893.6	523.9	76.5	57.1
27.5°	1100.6	1097.3	1090.9	1093.0	1111.4	1124.3	1089.8	979.9	585.3	69.0	51.7
30°	1284.9	1266.6	1237.5	1187.9	1151.2	1148.0	1132.9	1047.8	628.4	61.4	47.4
32.5°	1572.7	1550.1	1497.3	1405.6	1318.3	1251.5	1204.1	1104.9	658.6	53.9	42.0
35°	1823.9	1807.7	1746.3	1655.7	1530.7	1405.6	1319.4	1189.0	672.6	47.4	38.8
37.5°	1994.2	1987.7	1927.4	1830.4	1703.2	1555.5	1441.2	1275.2	669.4	39.9	35.6
40°	2068.6	2049.2	1998.5	1916.6	1788.3	1655.7	1535.0	1330.2	646.8	32.3	32.3
42.5°	2112.8	2091.2	2036.2	1958.6	1832.5	1691.3	1545.8	1306.5	592.9	25.9	31.3
45°	2175.3	2152.7	2080.4	1997.4	1870.2	1706.4	1503.7	1222.4	512.0	19.4	29.1
47.5°	2213.0	2197.9	2144.0	2061.0	1906.9	1684.8	1406.7	1143.7	422.6	15.1	28.0
50°	2098.8	2083.7	2043.8	1986.7	1883.2	1612.6	1321.6	1016.5	321.2	11.9	26.9
52.5°	1806.6	1819.6	1827.1	1843.3	1767.8	1450.9	1194.4	915.2	216.7	9.7	24.8
55°	1223.5	1242.9	1264.4	1329.1	1417.5	1291.4	1060.7	791.2	115.3	9.7	23.7
57.5°	961.5	955.1	948.6	944.3	1013.3	1065.0	932.4	632.8	49.6	9.7	21.6
60°	879.6	860.2	847.3	850.5	885.0	864.5	738.4	412.9	17.2	9.7	20.5
62.5°	576.7	591.8	620.9	670.5	646.8	555.1	429.0	163.8	8.6	9.7	18.3
65°	224.2	216.7	224.2	238.2	205.9	153.1	95.9	29.1	7.5	8.6	16.2
67.5°	30.2	26.9	20.5	12.9	11.9	10.8	8.6	7.5	7.5	8.6	15.1
70°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.5	6.5	7.5	12.9
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.5	10.8
75°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.5	9.7
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.4	7.5
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	6.5
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2	4.3	5.4
85°	1.1	2.2	1.1	2.2	2.2	2.2	2.2	2.2	2.2	3.2	4.3
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	3.2	3.2
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: P1312635

CATALOG NUMBER: P3SQAS17R509727DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	99.2	99.2	99.2	99.2
2.5°	98.1	95.9	95.9	95.9
5°	95.9	93.8	93.8	92.7
7.5°	92.7	91.6	91.6	91.6
10°	90.5	89.5	90.5	90.5
12.5°	86.2	87.3	88.4	88.4
15°	81.9	84.1	86.2	87.3
17.5°	77.6	81.9	84.1	85.2
20°	73.3	78.7	81.9	83.0
22.5°	70.1	75.5	79.8	81.9
25°	65.8	73.3	78.7	80.8
27.5°	61.4	70.1	76.5	79.8
30°	58.2	69.0	76.5	79.8
32.5°	55.0	66.8	75.5	78.7
35°	52.8	65.8	75.5	79.8
37.5°	50.7	64.7	75.5	78.7
40°	49.6	63.6	75.5	78.7
42.5°	48.5	63.6	75.5	79.8
45°	46.4	62.5	75.5	79.8
47.5°	45.3	62.5	75.5	79.8
50°	44.2	61.4	75.5	80.8
52.5°	43.1	60.4	75.5	80.8
55°	41.0	59.3	74.4	79.8
57.5°	39.9	58.2	73.3	77.6
60°	37.7	56.1	71.1	76.5
62.5°	35.6	53.9	69.0	73.3
65°	32.3	50.7	65.8	71.1
67.5°	29.1	46.4	62.5	67.9
70°	25.9	42.0	58.2	62.5
72.5°	22.6	37.7	53.9	57.1
75°	19.4	32.3	47.4	51.7
77.5°	16.2	28.0	39.9	43.1
80°	11.9	21.6	32.3	35.6
82.5°	9.7	16.2	23.7	25.9
85°	6.5	10.8	15.1	17.2
87.5°	3.2	5.4	7.5	8.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)