

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: P1317332

Luminaire Tested: P3SQAS17R609830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317332
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: P3SQAS17R609830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

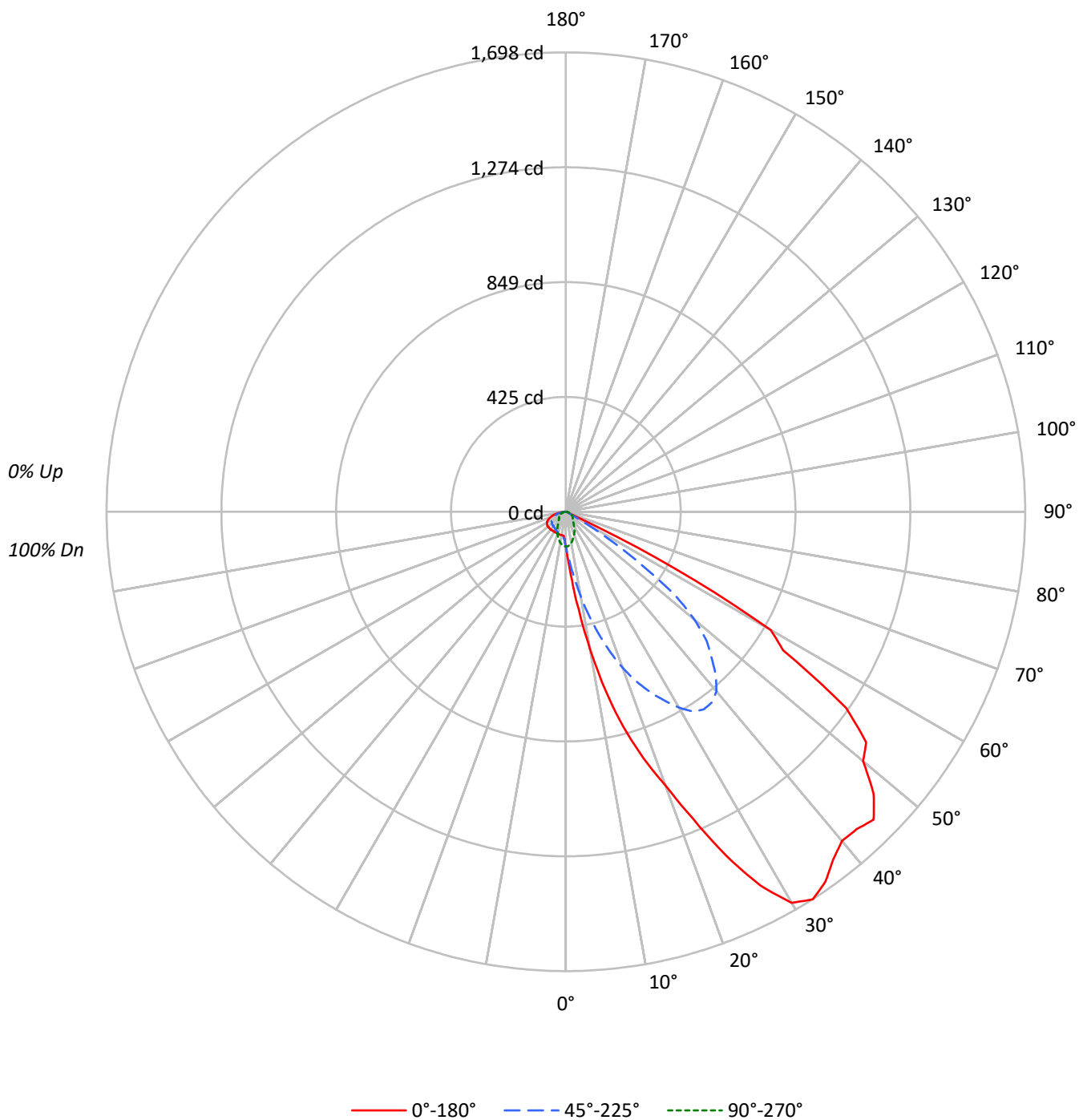
Lumens per Lamp: N/A
Luminaire Lumens: 1293.0 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1317332

CATALOG NUMBER: P3SQAS17R609830DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1317332

CATALOG NUMBER: P3SQAS17R609830DE010 E3SQCA451MMS

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°	22062	22062	22062	22062	22062
5°	43479	33936	21748	16458	15646
10°	89818	55297	20356	15005	15215
15°	146900	82980	18240	15084	15512
20°	197094	112440	16367	15084	15725
25°	266683	139594	14290	14955	16304
30°	331907	166192	11912	14955	17063
35°	351404	187307	10134	15327	17787
40°	356993	194740	9240	15850	19290
45°	391912	185495	8866	16879	20897
50°	384186	166278	8815	17951	22988
55°	379740	101999	8828	19397	25402
60°	301217	24283	9300	20632	27521
65°	19153	4320	9088	21068	29708
70°	4129	4733	8862	21904	31371
75°	3926	4724	7852	21094	32073
80°	3471	4661	8133	21026	30349
85°	2371	4742	9287	18575	30233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 413638 cd/sqm

TEST NUMBER: P1317332

CATALOG NUMBER: P3SQAS17R609830DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	1.2
10°-20°	80.6	6.2
20°-30°	187.0	14.5
30°-40°	290.6	22.5
40°-50°	331.2	25.6
50°-60°	278.9	21.6
60°-70°	80.9	6.3
70°-80°	20.7	1.6
80°-90°	7.0	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°	283.6	21.9
0°-40°	574.2	44.4
0°-60°	1184.3	91.6
0°-90°	1293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1293.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	128	128	128	128	128	
5°	252	196	126	95	90	32
15°	824	465	102	85	87	238
25°	1403	735	75	79	86	652
35°	1671	891	48	73	85	1038
45°	1609	762	36	69	86	1210
55°	1265	340	29	65	85	1064
65°	47	11	22	52	73	233
75°	6	7	12	32	48	6
85°	1	2	5	9	15	2
90°	0	0	0	0	0	

TEST NUMBER: P1317332

CATALOG NUMBER: P3SQAS17R609830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1	128.1
2.5°	172.8	171.6	171.6	170.4	169.3	168.1	164.5	163.4	156.3	142.2	128.1
5°	251.5	250.4	246.8	245.6	239.8	231.5	223.3	215.1	196.3	156.3	125.8
7.5°	364.4	366.7	364.4	351.4	343.2	330.3	305.6	288.0	250.4	170.4	121.1
10°	513.6	513.6	510.1	490.1	472.5	447.8	416.1	385.5	316.2	183.4	116.4
12.5°	675.8	679.4	661.7	645.3	613.5	583.0	539.5	493.6	391.4	193.9	110.5
15°	823.9	821.6	803.9	782.8	749.9	707.6	661.7	603.0	465.4	201.0	102.3
17.5°	955.6	950.9	935.6	912.1	872.1	825.1	766.3	702.9	541.8	206.9	96.4
20°	1075.4	1059.0	1041.4	1016.7	977.9	928.5	867.4	795.7	613.5	206.9	89.3
22.5°	1227.1	1210.6	1185.9	1148.3	1096.6	1035.5	963.8	882.7	677.0	202.2	82.3
25°	1403.4	1390.4	1348.1	1299.9	1232.9	1160.1	1076.6	967.3	734.6	195.1	75.2
27.5°	1557.3	1543.2	1500.9	1430.4	1349.3	1262.3	1174.2	1062.5	785.1	182.2	67.0
30°	1669.0	1651.4	1618.5	1551.5	1452.7	1347.0	1242.3	1135.4	835.7	166.9	59.9
32.5°	1698.4	1696.0	1671.4	1622.0	1533.8	1417.5	1292.9	1176.5	875.6	146.9	54.1
35°	1671.4	1674.9	1670.2	1645.5	1580.9	1466.8	1325.8	1198.9	890.9	126.9	48.2
37.5°	1622.0	1626.7	1634.9	1638.4	1597.3	1496.2	1344.6	1208.3	887.4	107.0	44.7
40°	1587.9	1585.6	1585.6	1609.1	1600.8	1509.2	1347.0	1201.2	866.2	85.8	41.1
42.5°	1591.4	1565.6	1547.9	1585.6	1597.3	1503.3	1331.7	1182.4	820.4	65.8	37.6
45°	1609.1	1553.8	1523.3	1571.4	1590.3	1483.3	1303.5	1154.2	761.6	45.8	36.4
47.5°	1543.2	1506.8	1502.1	1570.3	1577.3	1449.2	1260.0	1109.5	705.2	31.7	34.1
50°	1433.9	1428.1	1452.7	1523.3	1524.4	1392.8	1210.6	1028.4	620.6	22.3	32.9
52.5°	1399.8	1403.4	1425.7	1462.1	1428.1	1297.6	1121.3	960.3	513.6	17.6	31.7
55°	1264.7	1270.6	1291.7	1314.0	1289.4	1181.2	1013.2	878.0	339.7	16.5	29.4
57.5°	952.0	967.3	1006.1	1026.1	1028.4	962.6	918.0	756.9	191.6	16.5	28.2
60°	874.5	854.5	836.9	795.7	758.1	749.9	754.6	567.7	70.5	15.3	27.0
62.5°	457.2	447.8	474.8	492.5	497.2	523.0	488.9	299.7	15.3	15.3	24.7
65°	47.0	47.0	57.6	76.4	126.9	169.3	161.0	87.0	10.6	14.1	22.3
67.5°	14.1	14.1	14.1	16.5	21.2	21.2	17.6	12.9	10.6	12.9	20.0
70°	8.2	8.2	8.2	8.2	8.2	8.2	9.4	8.2	9.4	11.8	17.6
72.5°	7.1	7.1	7.1	7.1	8.2	8.2	8.2	8.2	8.2	10.6	15.3
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.1	7.1	8.2	11.8
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	5.9	5.9	5.9	7.1	9.4
80°	3.5	3.5	3.5	3.5	3.5	4.7	4.7	4.7	4.7	5.9	8.2
82.5°	2.4	2.4	2.4	2.4	3.5	3.5	3.5	3.5	3.5	4.7	5.9
85°	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	4.7
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.5
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: P1317332

CATALOG NUMBER: P3SQAS17R609830DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	128.1	128.1	128.1	128.1
2.5°	116.4	108.1	103.4	101.1
5°	105.8	95.2	91.7	90.5
7.5°	96.4	89.3	88.2	88.2
10°	90.5	85.8	87.0	87.0
12.5°	87.0	85.8	87.0	88.2
15°	83.5	84.6	87.0	87.0
17.5°	81.1	83.5	85.8	87.0
20°	77.6	82.3	85.8	85.8
22.5°	75.2	81.1	84.6	85.8
25°	72.9	78.7	83.5	85.8
27.5°	69.3	77.6	83.5	84.6
30°	65.8	75.2	82.3	85.8
32.5°	62.3	74.0	82.3	84.6
35°	59.9	72.9	82.3	84.6
37.5°	57.6	71.7	82.3	85.8
40°	56.4	70.5	81.1	85.8
42.5°	54.1	70.5	81.1	85.8
45°	52.9	69.3	81.1	85.8
47.5°	51.7	68.2	81.1	85.8
50°	49.4	67.0	79.9	85.8
52.5°	48.2	65.8	79.9	85.8
55°	45.8	64.6	78.7	84.6
57.5°	44.7	62.3	77.6	82.3
60°	42.3	59.9	75.2	79.9
62.5°	38.8	56.4	71.7	77.6
65°	35.3	51.7	68.2	72.9
67.5°	31.7	48.2	63.5	68.2
70°	28.2	43.5	57.6	62.3
72.5°	24.7	37.6	51.7	55.2
75°	21.2	31.7	43.5	48.2
77.5°	16.5	25.9	36.4	40.0
80°	12.9	21.2	28.2	30.6
82.5°	10.6	15.3	21.2	22.3
85°	7.1	9.4	12.9	15.3
87.5°	3.5	4.7	5.9	7.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)