

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: P1315577

Luminaire Tested: P3SQAS17R659740DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R659740DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 97CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

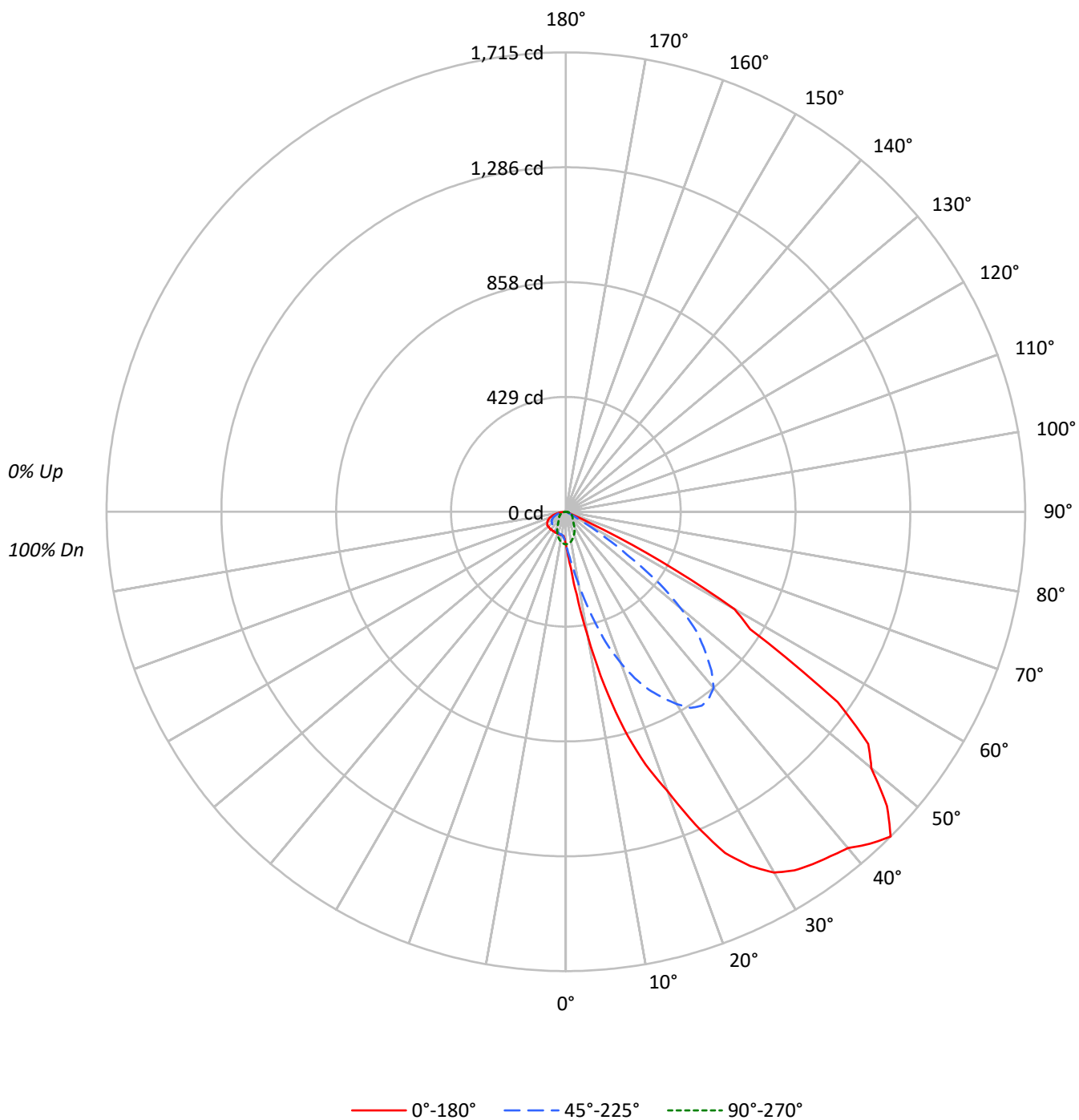
Lumens per Lamp: N/A
Luminaire Lumens: 1244.0 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1315577

CATALOG NUMBER: P3SQAS17R659740DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1315577

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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	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20839	20839	20839	20839	20839
5°	36443	29753	20486	16597	15957
10°	82456	47987	19639	15267	15494
15°	149895	77167	18240	15351	15797
20°	203234	110185	16458	15322	16000
25°	267120	139138	14461	14936	16361
30°	309316	164959	12409	14875	17122
35°	337759	185920	10491	15201	18102
40°	368481	192941	9263	15985	19357
45°	417729	178943	8817	17000	20970
50°	399029	149371	8681	18059	23069
55°	371903	83893	8978	19487	25462
60°	250481	18049	9024	20632	27487
65°	38632	4564	8639	21354	29993
70°	4381	4381	8157	22005	32025
75°	4126	4126	7453	21560	32339
80°	3670	4959	7438	19836	32134
85°	2371	4940	7311	19760	29640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 417729 cd/sqm

TEST NUMBER: P1315577

CATALOG NUMBER: P3SQAS17R659740DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	1.2
10°-20°	79.1	6.4
20°-30°	185.9	14.9
30°-40°	280.8	22.6
40°-50°	322.8	25.9
50°-60°	256.2	20.6
60°-70°	76.8	6.2
70°-80°	20.9	1.7
80°-90°	7.0	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°	279.6	22.5
0°-40°	560.4	45.0
0°-60°	1139.4	91.6
0°-90°	1244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1244.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	121	121	121	121	121	
5°	211	172	118	96	92	28
15°	841	433	102	86	89	242
25°	1406	732	76	79	86	642
35°	1606	884	50	72	86	1008
45°	1715	735	36	70	86	1274
55°	1239	279	30	65	85	1020
65°	95	11	21	52	74	213
75°	6	6	11	32	49	7
85°	1	2	4	10	15	2
90°	0	0	0	0	0	

TEST NUMBER: P1315577

CATALOG NUMBER: P3SQAS17R659740DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0
2.5°	153.4	154.7	153.4	153.4	152.2	150.9	142.2	132.2	121.0	112.3	106.0
5°	210.8	212.0	208.3	208.3	205.8	202.1	172.1	143.4	118.5	104.8	96.0
7.5°	311.8	316.8	310.6	303.1	289.4	286.9	214.5	154.7	116.0	97.3	89.8
10°	471.5	467.7	461.5	446.5	422.8	411.6	274.4	165.9	112.3	92.3	87.3
12.5°	664.8	654.8	647.4	619.9	587.5	568.8	349.2	175.9	107.3	87.3	86.1
15°	840.7	833.2	815.7	789.6	749.6	734.7	432.8	182.1	102.3	83.6	86.1
17.5°	989.1	981.6	971.7	945.5	904.3	881.9	526.4	185.8	96.0	81.1	84.8
20°	1108.9	1103.9	1090.2	1068.9	1027.8	1006.6	601.2	185.8	89.8	78.6	83.6
22.5°	1263.5	1252.3	1234.8	1203.7	1152.5	1120.1	672.3	182.1	83.6	76.1	81.1
25°	1405.7	1398.2	1375.8	1338.4	1283.5	1251.1	732.2	174.6	76.1	72.3	78.6
27.5°	1490.5	1485.6	1464.3	1425.7	1364.6	1339.6	782.1	163.4	68.6	68.6	77.3
30°	1555.4	1545.4	1524.2	1486.8	1424.4	1394.5	829.5	149.7	62.4	64.9	74.8
32.5°	1587.8	1584.1	1565.4	1533.0	1471.8	1438.2	868.1	132.2	54.9	62.4	73.6
35°	1606.5	1602.8	1587.8	1556.6	1499.3	1466.8	884.3	116.0	49.9	59.9	72.3
37.5°	1621.5	1617.8	1599.1	1567.9	1510.5	1476.8	876.9	98.5	44.9	57.4	71.1
40°	1639.0	1625.3	1596.6	1565.4	1513.0	1480.6	858.2	82.3	41.2	56.1	71.1
42.5°	1681.4	1634.0	1589.1	1560.4	1510.5	1473.1	804.5	64.9	37.4	53.6	69.8
45°	1715.1	1631.5	1574.1	1551.7	1500.5	1458.1	734.7	47.4	36.2	52.4	69.8
47.5°	1626.5	1575.4	1549.2	1536.7	1481.8	1435.7	662.3	32.4	34.9	51.1	68.6
50°	1489.3	1483.1	1473.1	1474.3	1424.4	1387.0	557.5	22.5	32.4	49.9	67.4
52.5°	1423.2	1415.7	1398.2	1385.8	1335.9	1303.4	441.5	17.5	31.2	48.6	66.1
55°	1238.6	1243.6	1224.9	1232.3	1217.4	1201.2	279.4	16.2	29.9	46.2	64.9
57.5°	815.7	840.7	884.3	936.7	984.1	1016.6	150.9	16.2	27.4	44.9	62.4
60°	727.2	720.9	719.7	729.7	750.9	768.3	52.4	15.0	26.2	41.2	59.9
62.5°	397.9	395.4	432.8	496.4	533.9	537.6	15.0	15.0	23.7	38.7	56.1
65°	94.8	98.5	109.8	137.2	162.2	178.4	11.2	13.7	21.2	36.2	52.4
67.5°	15.0	16.2	16.2	20.0	22.5	22.5	10.0	12.5	18.7	32.4	48.6
70°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	11.2	16.2	28.7	43.7
72.5°	7.5	7.5	7.5	7.5	7.5	7.5	8.7	10.0	13.7	24.9	37.4
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	8.7	11.2	20.0	32.4
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	6.2	7.5	10.0	16.2	26.2
80°	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.2	7.5	12.5	20.0
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	5.0	6.2	10.0	15.0
85°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7	3.7	6.2	10.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7	5.0
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: P1315577

CATALOG NUMBER: P3SQAS17R659740DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	121.0	121.0
2.5°	102.3	101.0
5°	92.3	92.3
7.5°	88.6	88.6
10°	87.3	88.6
12.5°	87.3	88.6
15°	87.3	88.6
17.5°	87.3	88.6
20°	86.1	87.3
22.5°	84.8	86.1
25°	83.6	86.1
27.5°	82.3	86.1
30°	82.3	86.1
32.5°	82.3	86.1
35°	81.1	86.1
37.5°	81.1	86.1
40°	81.1	86.1
42.5°	81.1	86.1
45°	81.1	86.1
47.5°	81.1	86.1
50°	81.1	86.1
52.5°	79.8	86.1
55°	79.8	84.8
57.5°	77.3	82.3
60°	74.8	79.8
62.5°	72.3	77.3
65°	68.6	73.6
67.5°	64.9	68.6
70°	58.6	63.6
72.5°	52.4	56.1
75°	44.9	48.6
77.5°	37.4	41.2
80°	29.9	32.4
82.5°	21.2	23.7
85°	13.7	15.0
87.5°	6.2	6.2
90°	0.0	0.0

(END OF REPORT)