

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: P1316463

Luminaire Tested: P3SQAS17R659827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316463
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: P3SQAS17R659827DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

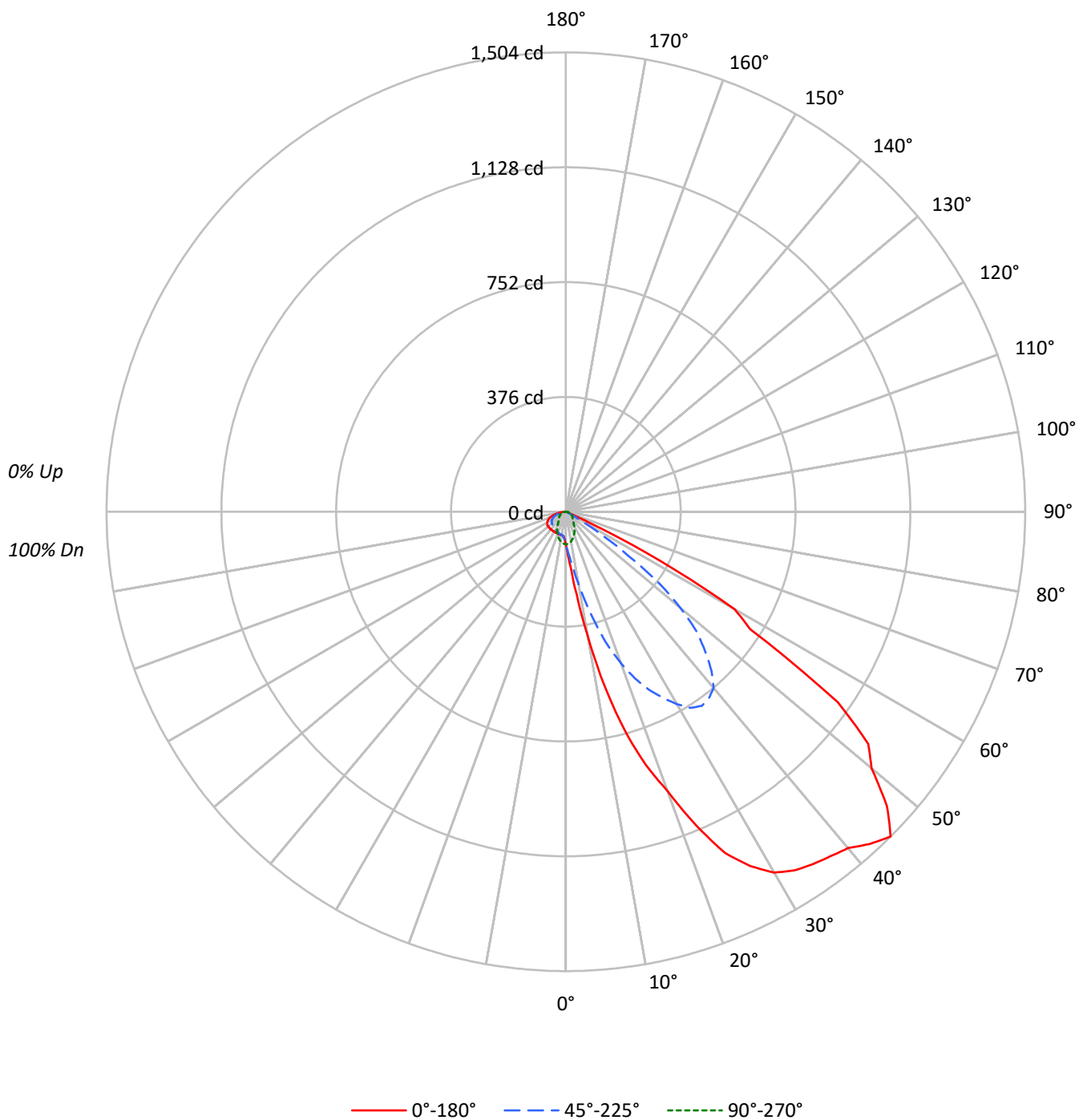
Lumens per Lamp: N/A
Luminaire Lumens: 1091.0 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1316463

CATALOG NUMBER: P3SQAS17R659827DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1316463

CATALOG NUMBER: P3SQAS17R659827DE010 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	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	64	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°	18273	18273	18273	18273	18273
5°	31966	26105	17962	14557	13986
10°	72313	42093	17226	13396	13588
15°	131459	67682	15993	13461	13854
20°	178235	96641	14442	13434	14039
25°	234265	122016	12675	13093	14347
30°	271273	144655	10878	13046	15014
35°	296235	163066	9209	13330	15873
40°	323157	169200	8116	14029	16974
45°	366338	156925	7721	14930	18389
50°	349945	131018	7609	15835	20229
55°	326174	73564	7897	17085	22339
60°	219653	15810	7922	18083	24111
65°	33864	3994	7580	18705	26285
70°	3877	3877	7150	19286	28098
75°	3660	3660	6521	18898	28413
80°	3273	4364	6546	17356	28167
85°	2174	4347	6521	17389	25886

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 366338 cd/sqm

TEST NUMBER: P1316463

CATALOG NUMBER: P3SQAS17R659827DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.9	1.2
10°-20°	69.4	6.4
20°-30°	163.0	14.9
30°-40°	246.3	22.6
40°-50°	283.1	25.9
50°-60°	224.7	20.6
60°-70°	67.3	6.2
70°-80°	18.3	1.7
80°-90°	6.2	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°	245.2	22.5
0°-40°	491.5	45.0
0°-60°	999.3	91.6
0°-90°	1091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1091.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	106	106	106	106	106	
5°	185	151	104	84	81	25
15°	737	380	90	76	78	212
25°	1233	642	67	69	76	563
35°	1409	776	44	63	76	884
45°	1504	644	32	61	76	1117
55°	1086	245	26	57	74	895
65°	83	10	19	46	64	186
75°	6	6	10	28	43	6
85°	1	2	3	9	13	2
90°	0	0	0	0	0	

TEST NUMBER: P1316463

CATALOG NUMBER: P3SQAS17R659827DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1	106.1
2.5°	134.6	135.6	134.6	134.6	133.5	132.4	124.7	116.0	106.1	98.5	93.0
5°	184.9	186.0	182.7	182.7	180.5	177.2	151.0	125.8	103.9	91.9	84.2
7.5°	273.5	277.9	272.4	265.8	253.8	251.6	188.2	135.6	101.7	85.3	78.8
10°	413.5	410.2	404.7	391.6	370.8	361.0	240.7	145.5	98.5	80.9	76.6
12.5°	583.1	574.3	567.7	543.7	515.2	498.8	306.3	154.2	94.1	76.6	75.5
15°	737.3	730.7	715.4	692.4	657.4	644.3	379.6	159.7	89.7	73.3	75.5
17.5°	867.5	860.9	852.2	829.2	793.1	773.4	461.6	163.0	84.2	71.1	74.4
20°	972.5	968.1	956.1	937.5	901.4	882.8	527.3	163.0	78.8	68.9	73.3
22.5°	1108.1	1098.3	1083.0	1055.6	1010.8	982.3	589.6	159.7	73.3	66.7	71.1
25°	1232.8	1226.3	1206.6	1173.8	1125.6	1097.2	642.1	153.1	66.7	63.4	68.9
27.5°	1307.2	1302.8	1284.2	1250.3	1196.7	1174.9	685.9	143.3	60.2	60.2	67.8
30°	1364.1	1355.4	1336.8	1303.9	1249.2	1223.0	727.4	131.3	54.7	56.9	65.6
32.5°	1392.5	1389.3	1372.9	1344.4	1290.8	1261.3	761.4	116.0	48.1	54.7	64.5
35°	1409.0	1405.7	1392.5	1365.2	1314.9	1286.4	775.6	101.7	43.8	52.5	63.4
37.5°	1422.1	1418.8	1402.4	1375.0	1324.7	1295.2	769.0	86.4	39.4	50.3	62.4
40°	1437.4	1425.4	1400.2	1372.9	1326.9	1298.5	752.6	72.2	36.1	49.2	62.4
42.5°	1474.6	1433.0	1393.6	1368.5	1324.7	1291.9	705.6	56.9	32.8	47.0	61.3
45°	1504.1	1430.8	1380.5	1360.8	1316.0	1278.8	644.3	41.6	31.7	45.9	61.3
47.5°	1426.5	1381.6	1358.6	1347.7	1299.6	1259.1	580.9	28.4	30.6	44.9	60.2
50°	1306.1	1300.7	1291.9	1293.0	1249.2	1216.4	489.0	19.7	28.4	43.8	59.1
52.5°	1248.1	1241.6	1226.3	1215.3	1171.6	1143.1	387.2	15.3	27.3	42.7	58.0
55°	1086.3	1090.6	1074.2	1080.8	1067.7	1053.4	245.0	14.2	26.3	40.5	56.9
57.5°	715.4	737.3	775.6	821.5	863.1	891.5	132.4	14.2	24.1	39.4	54.7
60°	637.7	632.3	631.2	639.9	658.5	673.8	45.9	13.1	23.0	36.1	52.5
62.5°	349.0	346.8	379.6	435.4	468.2	471.5	13.1	13.1	20.8	33.9	49.2
65°	83.1	86.4	96.3	120.3	142.2	156.4	9.8	12.0	18.6	31.7	45.9
67.5°	13.1	14.2	14.2	17.5	19.7	19.7	8.8	10.9	16.4	28.4	42.7
70°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	9.8	14.2	25.2	38.3
72.5°	6.6	6.6	6.6	6.6	6.6	6.6	7.7	8.8	12.0	21.9	32.8
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.7	9.8	17.5	28.4
77.5°	4.4	4.4	4.4	4.4	4.4	4.4	5.5	6.6	8.8	14.2	23.0
80°	3.3	3.3	3.3	3.3	3.3	3.3	4.4	5.5	6.6	10.9	17.5
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	3.3	4.4	5.5	8.8	13.1
85°	1.1	1.1	1.1	1.1	2.2	2.2	2.2	3.3	3.3	5.5	8.8
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	3.3	4.4
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: P1316463

CATALOG NUMBER: P3SQAS17R659827DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	106.1	106.1
2.5°	89.7	88.6
5°	80.9	80.9
7.5°	77.7	77.7
10°	76.6	77.7
12.5°	76.6	77.7
15°	76.6	77.7
17.5°	76.6	77.7
20°	75.5	76.6
22.5°	74.4	75.5
25°	73.3	75.5
27.5°	72.2	75.5
30°	72.2	75.5
32.5°	72.2	75.5
35°	71.1	75.5
37.5°	71.1	75.5
40°	71.1	75.5
42.5°	71.1	75.5
45°	71.1	75.5
47.5°	71.1	75.5
50°	71.1	75.5
52.5°	70.0	75.5
55°	70.0	74.4
57.5°	67.8	72.2
60°	65.6	70.0
62.5°	63.4	67.8
65°	60.2	64.5
67.5°	56.9	60.2
70°	51.4	55.8
72.5°	45.9	49.2
75°	39.4	42.7
77.5°	32.8	36.1
80°	26.3	28.4
82.5°	18.6	20.8
85°	12.0	13.1
87.5°	5.5	5.5
90°	0.0	0.0

(END OF REPORT)