

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: P1316608

Luminaire Tested: P3SQAS20R659827D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316608
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: P3SQAS20R659827D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

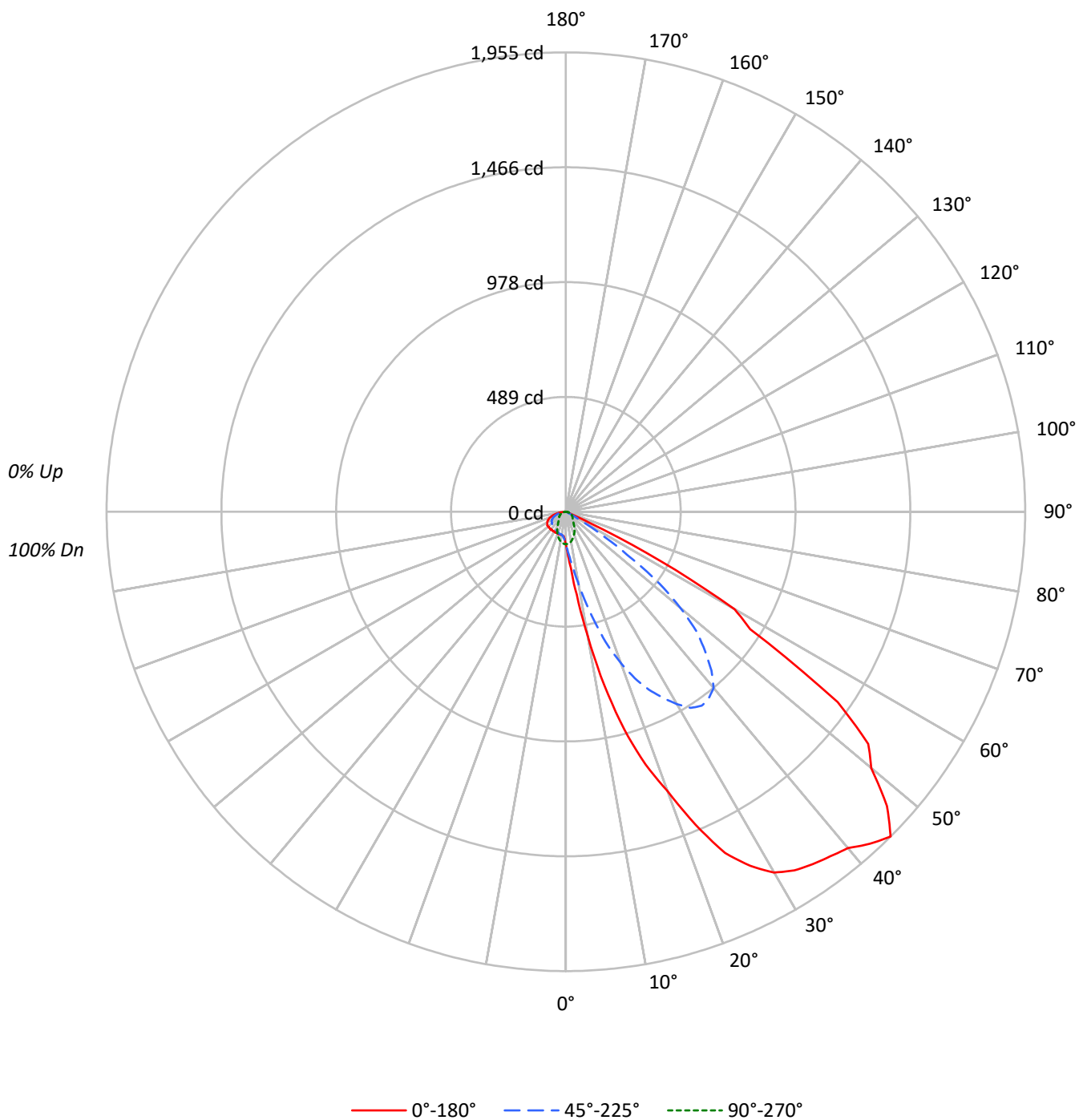
Lumens per Lamp: N/A
Luminaire Lumens: 1418.0 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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: P1316608

CATALOG NUMBER: P3SQAS20R659827D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1316608

CATALOG NUMBER: P3SQAS20R659827D010 E3SQCA451MB

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	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62	62	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53	53	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39	39	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	34	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29	29	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23	23	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23750	23750	23750	23750	23750
5°	41543	33919	23356	18930	18187
10°	93980	54702	22385	17401	17645
15°	170863	87972	20790	17491	17990
20°	231660	125599	18767	17466	18236
25°	304480	158596	16475	17026	18642
30°	352589	188027	14139	16963	19509
35°	385022	211927	11963	17345	20625
40°	420010	219920	10544	18210	22055
45°	476135	203957	10035	19387	23893
50°	454839	170270	9913	20577	26284
55°	423908	95633	10239	22189	29035
60°	285511	20563	10299	23491	31345
65°	44052	5216	9862	24329	34190
70°	5035	5035	9316	25077	36507
75°	4724	4724	8517	24620	36864
80°	4265	5653	8430	22514	36696
85°	2766	5533	8497	22527	33790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 476135 cd/sqm

TEST NUMBER: P1316608

CATALOG NUMBER: P3SQAS20R659827D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.7	1.2
10°-20°	90.2	6.4
20°-30°	211.8	14.9
30°-40°	320.1	22.6
40°-50°	367.9	25.9
50°-60°	292.1	20.6
60°-70°	87.5	6.2
70°-80°	23.8	1.7
80°-90°	8.0	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°	318.7	22.5
0°-40°	638.8	45.0
0°-60°	1298.7	91.6
0°-90°	1418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	138	138	138	138	138	
5°	240	196	135	110	105	32
15°	958	493	117	98	101	276
25°	1602	835	87	90	98	731
35°	1831	1008	57	82	98	1149
45°	1955	837	41	80	98	1452
55°	1412	318	34	74	97	1163
65°	108	13	24	60	84	242
75°	7	7	13	37	55	8
85°	1	3	4	11	17	2
90°	0	0	0	0	0	

TEST NUMBER: P1316608

CATALOG NUMBER: P3SQAS20R659827D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	137.9	137.9	137.9	137.9	137.9	137.9	137.9	137.9	137.9	137.9	137.9
2.5°	174.9	176.3	174.9	174.9	173.5	172.0	162.1	150.7	137.9	128.0	120.9
5°	240.3	241.7	237.4	237.4	234.6	230.3	196.2	163.5	135.1	119.4	109.5
7.5°	355.4	361.1	354.0	345.5	329.9	327.0	244.5	176.3	132.2	110.9	102.4
10°	537.4	533.2	526.1	509.0	482.0	469.2	312.8	189.1	128.0	105.2	99.5
12.5°	757.8	746.4	737.9	706.6	669.7	648.3	398.1	200.5	122.3	99.5	98.1
15°	958.3	949.7	929.8	900.0	854.5	837.4	493.4	207.6	116.6	95.3	98.1
17.5°	1127.5	1118.9	1107.6	1077.7	1030.8	1005.2	600.0	211.8	109.5	92.4	96.7
20°	1264.0	1258.3	1242.6	1218.5	1171.5	1147.4	685.3	211.8	102.4	89.6	95.3
22.5°	1440.3	1427.5	1407.6	1372.0	1313.7	1276.8	766.3	207.6	95.3	86.7	92.4
25°	1602.3	1593.8	1568.2	1525.6	1463.0	1426.0	834.6	199.0	86.7	82.5	89.6
27.5°	1699.0	1693.3	1669.2	1625.1	1555.4	1527.0	891.5	186.3	78.2	78.2	88.2
30°	1773.0	1761.6	1737.4	1694.8	1623.7	1589.5	945.5	170.6	71.1	73.9	85.3
32.5°	1809.9	1805.7	1784.3	1747.4	1677.7	1639.3	989.6	150.7	62.6	71.1	83.9
35°	1831.3	1827.0	1809.9	1774.4	1709.0	1672.0	1008.0	132.2	56.9	68.2	82.5
37.5°	1848.3	1844.0	1822.7	1787.2	1721.8	1683.4	999.5	112.3	51.2	65.4	81.0
40°	1868.2	1852.6	1819.9	1784.3	1724.6	1687.7	978.2	93.8	46.9	64.0	81.0
42.5°	1916.6	1862.5	1811.3	1778.6	1721.8	1679.1	917.0	73.9	42.7	61.1	79.6
45°	1954.9	1859.7	1794.3	1768.7	1710.4	1662.1	837.4	54.0	41.2	59.7	79.6
47.5°	1854.0	1795.7	1765.8	1751.6	1689.1	1636.5	755.0	37.0	39.8	58.3	78.2
50°	1697.6	1690.5	1679.1	1680.5	1623.7	1581.0	635.5	25.6	37.0	56.9	76.8
52.5°	1622.2	1613.7	1593.8	1579.6	1522.7	1485.8	503.3	19.9	35.5	55.4	75.4
55°	1411.8	1417.5	1396.2	1404.7	1387.7	1369.2	318.5	18.5	34.1	52.6	73.9
57.5°	929.8	958.3	1008.0	1067.8	1121.8	1158.7	172.0	18.5	31.3	51.2	71.1
60°	828.9	821.8	820.4	831.7	855.9	875.8	59.7	17.1	29.9	46.9	68.2
62.5°	453.5	450.7	493.4	565.9	608.5	612.8	17.1	17.1	27.0	44.1	64.0
65°	108.1	112.3	125.1	156.4	184.8	203.3	12.8	15.6	24.2	41.2	59.7
67.5°	17.1	18.5	18.5	22.7	25.6	25.6	11.4	14.2	21.3	37.0	55.4
70°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	12.8	18.5	32.7	49.8
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	10.0	11.4	15.6	28.4	42.7
75°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	10.0	12.8	22.7	37.0
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	7.1	8.5	11.4	18.5	29.9
80°	4.3	4.3	4.3	4.3	4.3	4.3	5.7	7.1	8.5	14.2	22.7
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.3	5.7	7.1	11.4	17.1
85°	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.3	4.3	7.1	11.4
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.3	5.7
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: P1316608

CATALOG NUMBER: P3SQAS20R659827D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	137.9	137.9
2.5°	116.6	115.2
5°	105.2	105.2
7.5°	100.9	100.9
10°	99.5	100.9
12.5°	99.5	100.9
15°	99.5	100.9
17.5°	99.5	100.9
20°	98.1	99.5
22.5°	96.7	98.1
25°	95.3	98.1
27.5°	93.8	98.1
30°	93.8	98.1
32.5°	93.8	98.1
35°	92.4	98.1
37.5°	92.4	98.1
40°	92.4	98.1
42.5°	92.4	98.1
45°	92.4	98.1
47.5°	92.4	98.1
50°	92.4	98.1
52.5°	91.0	98.1
55°	91.0	96.7
57.5°	88.2	93.8
60°	85.3	91.0
62.5°	82.5	88.2
65°	78.2	83.9
67.5°	73.9	78.2
70°	66.8	72.5
72.5°	59.7	64.0
75°	51.2	55.4
77.5°	42.7	46.9
80°	34.1	37.0
82.5°	24.2	27.0
85°	15.6	17.1
87.5°	7.1	7.1
90°	0.0	0.0

(END OF REPORT)