

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: P1308387

Luminaire Tested: P3SQAS20R659030D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308387
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: P3SQAS20R659030D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

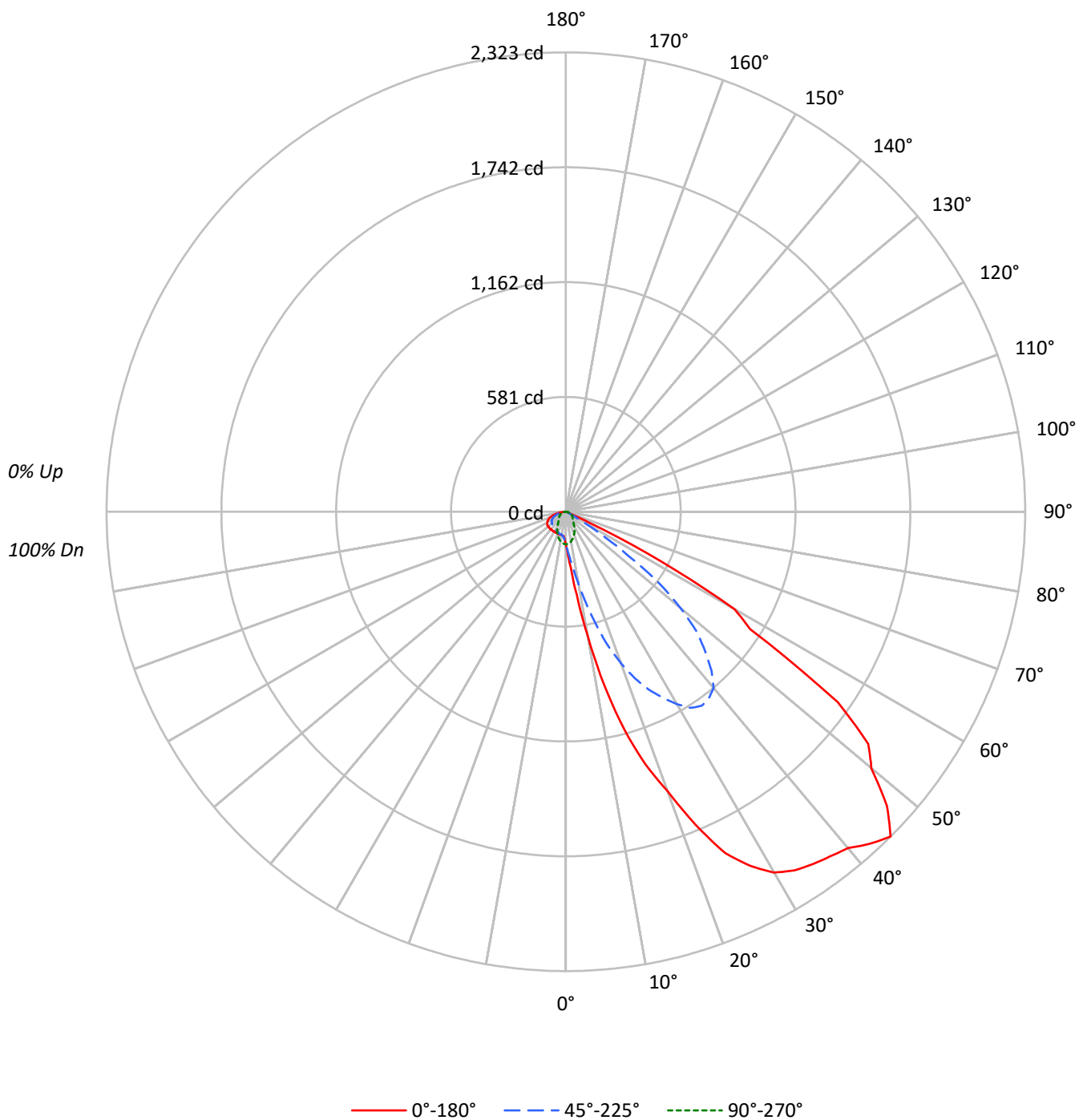
Lumens per Lamp: N/A
Luminaire Lumens: 1685.0 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1308387

CATALOG NUMBER: P3SQAS20R659030D010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1308387

CATALOG NUMBER: P3SQAS20R659030D010 E3SQCA451MW

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	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°	28227	28227	28227	28227	28227
5°	49357	40298	27747	22492	21610
10°	111678	65003	26599	20688	20986
15°	203028	104536	24694	20790	21396
20°	275280	149241	22286	20747	21681
25°	361830	188449	19592	20219	22157
30°	418970	223425	16804	20165	23188
35°	457514	251831	14213	20604	24515
40°	499102	261332	12545	21650	26214
45°	565789	242366	11934	23041	28399
50°	540497	202341	11762	24435	31241
55°	503748	113619	12161	26393	34500
60°	339279	24456	12228	27935	37235
65°	52325	6194	11696	28933	40629
70°	5942	5942	11078	29760	43406
75°	5590	5590	10114	29212	43851
80°	5058	6744	10017	26778	43540
85°	3359	6719	10078	26676	40113

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 565789 cd/sqm

TEST NUMBER: P1308387

CATALOG NUMBER: P3SQAS20R659030D010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	1.2
10°-20°	107.1	6.4
20°-30°	251.7	14.9
30°-40°	380.3	22.6
40°-50°	437.2	25.9
50°-60°	347.1	20.6
60°-70°	104.0	6.2
70°-80°	28.3	1.7
80°-90°	9.5	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°	378.7	22.5
0°-40°	759.0	45.0
0°-60°	1543.3	91.6
0°-90°	1685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1685.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	164	164	164	164	164	
5°	286	233	160	130	125	38
15°	1139	586	138	117	120	328
25°	1904	992	103	106	117	869
35°	2176	1198	68	98	117	1365
45°	2323	995	49	95	117	1726
55°	1678	378	40	88	115	1382
65°	128	15	29	71	100	288
75°	8	8	15	44	66	9
85°	2	3	5	14	20	3
90°	0	0	0	0	0	

TEST NUMBER: P1308387

CATALOG NUMBER: P3SQAS20R659030D010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9	163.9
2.5°	207.8	209.5	207.8	207.8	206.1	204.4	192.6	179.1	163.9	152.1	143.6
5°	285.5	287.2	282.1	282.1	278.8	273.7	233.1	194.3	160.5	141.9	130.1
7.5°	422.4	429.1	420.7	410.5	392.0	388.6	290.6	209.5	157.1	131.8	121.6
10°	638.6	633.6	625.1	604.8	572.7	557.5	371.7	224.7	152.1	125.0	118.3
12.5°	900.5	887.0	876.8	839.7	795.8	770.4	473.1	238.2	145.3	118.3	116.6
15°	1138.7	1128.6	1104.9	1069.4	1015.4	995.1	586.3	246.7	138.5	113.2	116.6
17.5°	1339.8	1329.6	1316.1	1280.6	1224.9	1194.5	713.0	251.7	130.1	109.8	114.9
20°	1502.0	1495.2	1476.6	1447.9	1392.1	1363.4	814.3	251.7	121.6	106.4	113.2
22.5°	1711.5	1696.2	1672.6	1630.4	1561.1	1517.2	910.6	246.7	113.2	103.1	109.8
25°	1904.1	1893.9	1863.5	1812.8	1738.5	1694.6	991.7	236.5	103.1	98.0	106.4
27.5°	2018.9	2012.2	1983.5	1931.1	1848.3	1814.5	1059.3	221.3	92.9	92.9	104.7
30°	2106.8	2093.3	2064.6	2013.9	1929.4	1888.9	1123.5	202.7	84.5	87.9	101.4
32.5°	2150.7	2145.7	2120.3	2076.4	1993.6	1948.0	1175.9	179.1	74.3	84.5	99.7
35°	2176.1	2171.0	2150.7	2108.5	2030.8	1986.8	1197.8	157.1	67.6	81.1	98.0
37.5°	2196.3	2191.3	2165.9	2123.7	2046.0	2000.4	1187.7	133.5	60.8	77.7	96.3
40°	2220.0	2201.4	2162.5	2120.3	2049.4	2005.4	1162.4	111.5	55.8	76.0	96.3
42.5°	2277.4	2213.2	2152.4	2113.6	2046.0	1995.3	1089.7	87.9	50.7	72.6	94.6
45°	2323.0	2209.9	2132.1	2101.7	2032.5	1975.0	995.1	64.2	49.0	71.0	94.6
47.5°	2203.1	2133.8	2098.3	2081.5	2007.1	1944.6	897.1	43.9	47.3	69.3	92.9
50°	2017.3	2008.8	1995.3	1997.0	1929.4	1878.7	755.2	30.4	43.9	67.6	91.2
52.5°	1927.7	1917.6	1893.9	1877.0	1809.4	1765.5	598.1	23.7	42.2	65.9	89.5
55°	1677.7	1684.4	1659.1	1669.2	1648.9	1627.0	378.4	22.0	40.5	62.5	87.9
57.5°	1104.9	1138.7	1197.8	1268.8	1333.0	1376.9	204.4	22.0	37.2	60.8	84.5
60°	985.0	976.5	974.8	988.4	1017.1	1040.7	71.0	20.3	35.5	55.8	81.1
62.5°	538.9	535.6	586.3	672.4	723.1	728.2	20.3	20.3	32.1	52.4	76.0
65°	128.4	133.5	148.7	185.8	219.6	241.6	15.2	18.6	28.7	49.0	71.0
67.5°	20.3	22.0	22.0	27.0	30.4	30.4	13.5	16.9	25.3	43.9	65.9
70°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	15.2	22.0	38.9	59.1
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	11.8	13.5	18.6	33.8	50.7
75°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	11.8	15.2	27.0	43.9
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	8.4	10.1	13.5	22.0	35.5
80°	5.1	5.1	5.1	5.1	5.1	5.1	6.8	8.4	10.1	16.9	27.0
82.5°	3.4	3.4	3.4	3.4	3.4	3.4	5.1	6.8	8.4	13.5	20.3
85°	1.7	1.7	1.7	1.7	3.4	3.4	3.4	5.1	5.1	8.4	13.5
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	5.1	6.8
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: P1308387

CATALOG NUMBER: P3SQAS20R659030D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	163.9	163.9
2.5°	138.5	136.8
5°	125.0	125.0
7.5°	120.0	120.0
10°	118.3	120.0
12.5°	118.3	120.0
15°	118.3	120.0
17.5°	118.3	120.0
20°	116.6	118.3
22.5°	114.9	116.6
25°	113.2	116.6
27.5°	111.5	116.6
30°	111.5	116.6
32.5°	111.5	116.6
35°	109.8	116.6
37.5°	109.8	116.6
40°	109.8	116.6
42.5°	109.8	116.6
45°	109.8	116.6
47.5°	109.8	116.6
50°	109.8	116.6
52.5°	108.1	116.6
55°	108.1	114.9
57.5°	104.7	111.5
60°	101.4	108.1
62.5°	98.0	104.7
65°	92.9	99.7
67.5°	87.9	92.9
70°	79.4	86.2
72.5°	71.0	76.0
75°	60.8	65.9
77.5°	50.7	55.8
80°	40.5	43.9
82.5°	28.7	32.1
85°	18.6	20.3
87.5°	8.4	8.4
90°	0.0	0.0

(END OF REPORT)