

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: P1306296

Luminaire Tested: P3SQASS20R659024D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306296
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: P3SQASS20R659024D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

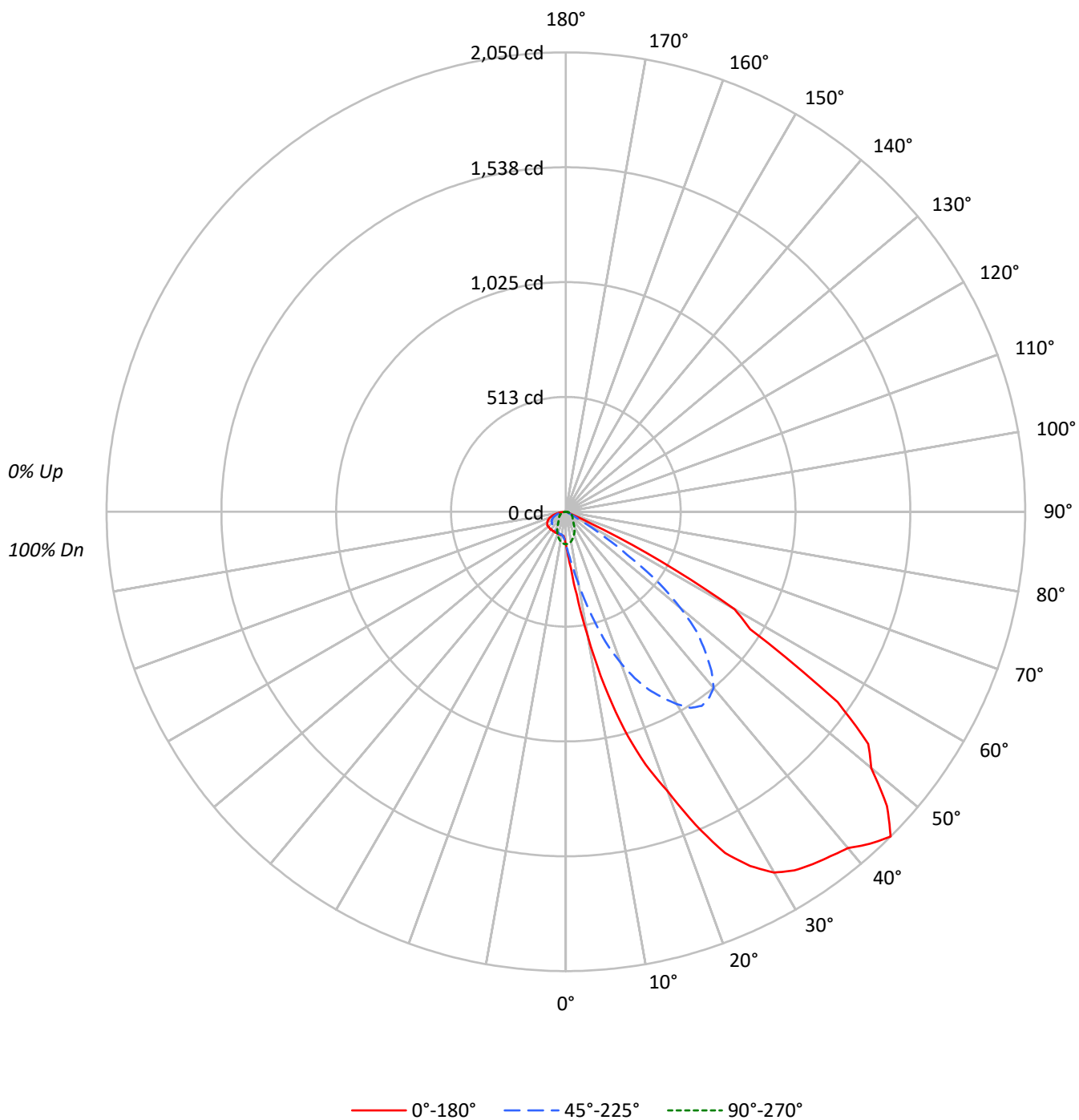
Lumens per Lamp: N/A
Luminaire Lumens: 1487.0 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1306296

CATALOG NUMBER: P3SQASS20R659024D010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1306296

CATALOG NUMBER: P3SQASS20R659024D010 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	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°	24903	24903	24903	24903	24903
5°	43566	35579	24480	19847	19069
10°	98562	57360	23469	18257	18520
15°	179172	92251	21806	18347	18882
20°	242932	131702	19665	18309	19134
25°	319302	166311	17273	17844	19554
30°	369731	197175	14815	17798	20463
35°	403755	222250	12531	18186	21634
40°	440446	230621	11061	19110	23134
45°	499322	213894	10522	20337	25062
50°	476971	178576	10396	21568	27570
55°	444536	100287	10749	23270	30446
60°	299392	21562	10781	24662	32860
65°	46171	5461	10310	25510	35861
70°	5237	5237	9769	26285	38269
75°	4991	4991	8917	25818	38661
80°	4463	5951	8827	23704	38481
85°	2964	5928	8892	23515	35371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 499322 cd/sqm

TEST NUMBER: P1306296

CATALOG NUMBER: P3SQASS20R659024D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	1.2
10°-20°	94.6	6.4
20°-30°	222.1	14.9
30°-40°	335.6	22.6
40°-50°	385.8	25.9
50°-60°	306.3	20.6
60°-70°	91.7	6.2
70°-80°	24.9	1.7
80°-90°	8.4	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°	334.2	22.5
0°-40°	669.9	45.0
0°-60°	1361.9	91.6
0°-90°	1487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1487.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	145	145	145	145	145	
5°	252	206	142	115	110	34
15°	1005	517	122	103	106	289
25°	1680	875	91	94	103	767
35°	1920	1057	60	86	103	1205
45°	2050	878	43	84	103	1523
55°	1480	334	36	78	101	1220
65°	113	13	25	63	88	254
75°	8	8	13	39	58	8
85°	2	3	4	12	18	2
90°	0	0	0	0	0	

TEST NUMBER: P1306296

CATALOG NUMBER: P3SQASS20R659024D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6
2.5°	183.4	184.9	183.4	183.4	181.9	180.4	170.0	158.0	144.6	134.2	126.7
5°	252.0	253.5	249.0	249.0	246.0	241.5	205.8	171.5	141.6	125.2	114.8
7.5°	372.7	378.7	371.2	362.3	345.9	342.9	256.4	184.9	138.7	116.3	107.3
10°	563.6	559.1	551.7	533.8	505.4	492.0	328.0	198.3	134.2	110.3	104.4
12.5°	794.7	782.8	773.8	741.0	702.2	679.9	417.5	210.2	128.2	104.4	102.9
15°	1004.9	996.0	975.1	943.8	896.1	878.2	517.4	217.7	122.3	99.9	102.9
17.5°	1182.3	1173.4	1161.5	1130.1	1080.9	1054.1	629.2	222.2	114.8	96.9	101.4
20°	1325.5	1319.5	1303.1	1277.8	1228.6	1203.2	718.6	222.2	107.3	93.9	99.9
22.5°	1510.3	1496.9	1476.1	1438.8	1377.6	1338.9	803.6	217.7	99.9	90.9	96.9
25°	1680.3	1671.4	1644.5	1599.8	1534.2	1495.4	875.2	208.7	90.9	86.5	93.9
27.5°	1781.7	1775.7	1750.4	1704.2	1631.1	1601.3	934.8	195.3	82.0	82.0	92.4
30°	1859.2	1847.3	1822.0	1777.2	1702.7	1666.9	991.5	178.9	74.5	77.5	89.5
32.5°	1898.0	1893.5	1871.2	1832.4	1759.3	1719.1	1037.7	158.0	65.6	74.5	88.0
35°	1920.4	1915.9	1898.0	1860.7	1792.1	1753.4	1057.1	138.7	59.6	71.6	86.5
37.5°	1938.3	1933.8	1911.4	1874.1	1805.6	1765.3	1048.1	117.8	53.7	68.6	85.0
40°	1959.1	1942.7	1908.4	1871.2	1808.5	1769.8	1025.8	98.4	49.2	67.1	85.0
42.5°	2009.8	1953.2	1899.5	1865.2	1805.6	1760.8	961.7	77.5	44.7	64.1	83.5
45°	2050.1	1950.2	1881.6	1854.8	1793.6	1742.9	878.2	56.7	43.2	62.6	83.5
47.5°	1944.2	1883.1	1851.8	1836.9	1771.3	1716.1	791.7	38.8	41.7	61.1	82.0
50°	1780.2	1772.8	1760.8	1762.3	1702.7	1658.0	666.5	26.8	38.8	59.6	80.5
52.5°	1701.2	1692.2	1671.4	1656.5	1596.8	1558.1	527.8	20.9	37.3	58.1	79.0
55°	1480.5	1486.5	1464.1	1473.1	1455.2	1435.8	334.0	19.4	35.8	55.2	77.5
57.5°	975.1	1004.9	1057.1	1119.7	1176.4	1215.1	180.4	19.4	32.8	53.7	74.5
60°	869.2	861.8	860.3	872.2	897.6	918.4	62.6	17.9	31.3	49.2	71.6
62.5°	475.6	472.6	517.4	593.4	638.1	642.6	17.9	17.9	28.3	46.2	67.1
65°	113.3	117.8	131.2	164.0	193.8	213.2	13.4	16.4	25.3	43.2	62.6
67.5°	17.9	19.4	19.4	23.9	26.8	26.8	11.9	14.9	22.4	38.8	58.1
70°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	13.4	19.4	34.3	52.2
72.5°	8.9	8.9	8.9	8.9	8.9	8.9	10.4	11.9	16.4	29.8	44.7
75°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.4	13.4	23.9	38.8
77.5°	6.0	6.0	6.0	6.0	6.0	6.0	7.5	8.9	11.9	19.4	31.3
80°	4.5	4.5	4.5	4.5	4.5	4.5	6.0	7.5	8.9	14.9	23.9
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.0	7.5	11.9	17.9
85°	1.5	1.5	1.5	1.5	3.0	3.0	3.0	4.5	4.5	7.5	11.9
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	4.5	6.0
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: P1306296

CATALOG NUMBER: P3SQASS20R659024D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	144.6	144.6
2.5°	122.3	120.8
5°	110.3	110.3
7.5°	105.9	105.9
10°	104.4	105.9
12.5°	104.4	105.9
15°	104.4	105.9
17.5°	104.4	105.9
20°	102.9	104.4
22.5°	101.4	102.9
25°	99.9	102.9
27.5°	98.4	102.9
30°	98.4	102.9
32.5°	98.4	102.9
35°	96.9	102.9
37.5°	96.9	102.9
40°	96.9	102.9
42.5°	96.9	102.9
45°	96.9	102.9
47.5°	96.9	102.9
50°	96.9	102.9
52.5°	95.4	102.9
55°	95.4	101.4
57.5°	92.4	98.4
60°	89.5	95.4
62.5°	86.5	92.4
65°	82.0	88.0
67.5°	77.5	82.0
70°	70.1	76.0
72.5°	62.6	67.1
75°	53.7	58.1
77.5°	44.7	49.2
80°	35.8	38.8
82.5°	25.3	28.3
85°	16.4	17.9
87.5°	7.5	7.5
90°	0.0	0.0

(END OF REPORT)