

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: P1307267

Luminaire Tested: P3SQAS20R659027D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307267
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: P3SQAS20R659027D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

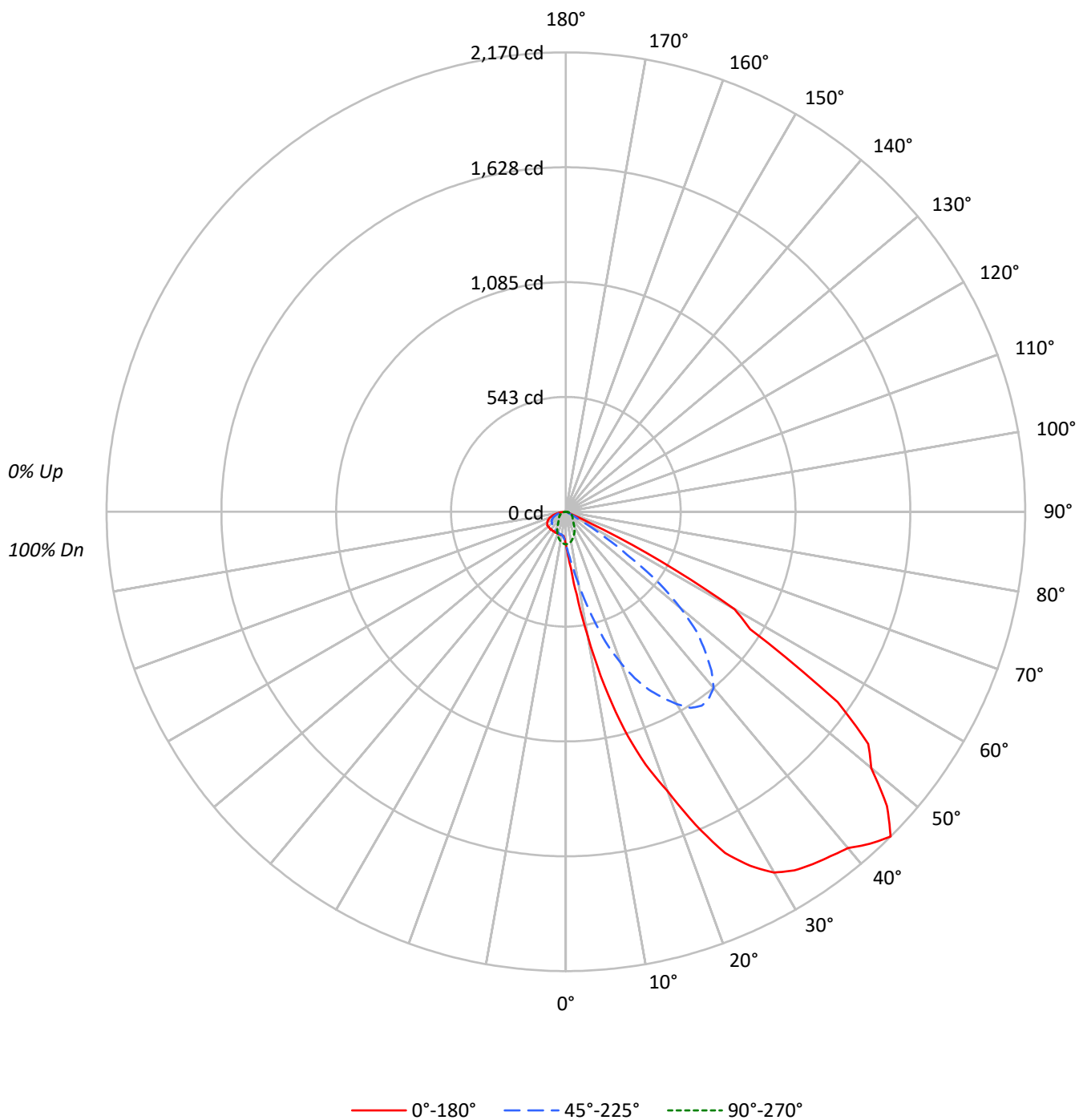
Lumens per Lamp: N/A
Luminaire Lumens: 1574.0 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P1307267

CATALOG NUMBER: P3SQAS20R659027D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1307267

CATALOG NUMBER: P3SQAS20R659027D010 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		
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°	26367	26367	26367	26367	26367
5°	46107	37653	25915	21005	20192
10°	104333	60718	24833	19324	19604
15°	189656	97636	23072	19417	19987
20°	257136	139418	20820	19372	20252
25°	337981	176041	18300	18889	20694
30°	391367	208709	15690	18833	21656
35°	427365	235243	13266	19237	22896
40°	466211	244110	11713	20234	24483
45°	528524	226413	11155	21531	26524
50°	504889	189025	10985	22828	29178
55°	470539	106142	11380	24651	32218
60°	316924	22837	11401	26109	34789
65°	48861	5787	10921	27018	37940
70°	5539	5539	10323	27796	40535
75°	5257	5257	9449	27282	40923
80°	4661	6248	9422	25092	40663
85°	3162	6323	9287	24898	37347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 528524 cd/sqm

TEST NUMBER: P1307267

CATALOG NUMBER: P3SQAS20R659027D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	1.2
10°-20°	100.1	6.4
20°-30°	235.1	14.9
30°-40°	355.3	22.6
40°-50°	408.4	25.9
50°-60°	324.2	20.6
60°-70°	97.1	6.2
70°-80°	26.4	1.7
80°-90°	8.9	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°	353.8	22.5
0°-40°	709.0	45.0
0°-60°	1441.6	91.6
0°-90°	1574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1574.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	153	153	153	153	153	
5°	267	218	150	122	117	36
15°	1064	548	129	109	112	306
25°	1779	926	96	99	109	812
35°	2033	1119	63	92	109	1276
45°	2170	930	46	88	109	1612
55°	1567	354	38	82	107	1291
65°	120	14	27	66	93	269
75°	8	8	14	41	62	8
85°	2	3	5	13	19	2
90°	0	0	0	0	0	

TEST NUMBER: P1307267

CATALOG NUMBER: P3SQAS20R659027D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1	153.1
2.5°	194.1	195.7	194.1	194.1	192.5	191.0	179.9	167.3	153.1	142.0	134.1
5°	266.7	268.3	263.6	263.6	260.4	255.7	217.8	181.5	149.9	132.6	121.5
7.5°	394.5	400.9	393.0	383.5	366.1	363.0	271.4	195.7	146.8	123.1	113.6
10°	596.6	591.8	583.9	565.0	535.0	520.8	347.2	209.9	142.0	116.8	110.5
12.5°	841.2	828.6	819.1	784.4	743.3	719.7	441.9	222.5	135.7	110.5	108.9
15°	1063.7	1054.2	1032.1	999.0	948.5	929.6	547.6	230.4	129.4	105.7	108.9
17.5°	1251.5	1242.0	1229.4	1196.3	1144.2	1115.8	666.0	235.2	121.5	102.6	107.3
20°	1403.0	1396.7	1379.3	1352.5	1300.4	1273.6	760.7	235.2	113.6	99.4	105.7
22.5°	1598.7	1584.5	1562.4	1523.0	1458.3	1417.2	850.6	230.4	105.7	96.3	102.6
25°	1778.6	1769.2	1740.7	1693.4	1624.0	1582.9	926.4	220.9	96.3	91.5	99.4
27.5°	1885.9	1879.6	1852.8	1803.9	1726.5	1695.0	989.5	206.7	86.8	86.8	97.8
30°	1968.0	1955.4	1928.6	1881.2	1802.3	1764.4	1049.5	189.4	78.9	82.1	94.7
32.5°	2009.0	2004.3	1980.6	1939.6	1862.3	1819.7	1098.4	167.3	69.4	78.9	93.1
35°	2032.7	2028.0	2009.0	1969.6	1897.0	1856.0	1118.9	146.8	63.1	75.8	91.5
37.5°	2051.7	2046.9	2023.2	1983.8	1911.2	1868.6	1109.5	124.7	56.8	72.6	90.0
40°	2073.7	2056.4	2020.1	1980.6	1914.4	1873.3	1085.8	104.2	52.1	71.0	90.0
42.5°	2127.4	2067.4	2010.6	1974.3	1911.2	1863.8	1017.9	82.1	47.3	67.9	88.4
45°	2170.0	2064.3	1991.7	1963.3	1898.6	1844.9	929.6	60.0	45.8	66.3	88.4
47.5°	2058.0	1993.3	1960.1	1944.3	1874.9	1816.5	838.0	41.0	44.2	64.7	86.8
50°	1884.4	1876.5	1863.8	1865.4	1802.3	1755.0	705.5	28.4	41.0	63.1	85.2
52.5°	1800.7	1791.3	1769.2	1753.4	1690.2	1649.2	558.7	22.1	39.5	61.5	83.6
55°	1567.1	1573.5	1549.8	1559.3	1540.3	1519.8	353.5	20.5	37.9	58.4	82.1
57.5°	1032.1	1063.7	1118.9	1185.2	1245.2	1286.2	191.0	20.5	34.7	56.8	78.9
60°	920.1	912.2	910.6	923.2	950.1	972.2	66.3	18.9	33.1	52.1	75.8
62.5°	503.4	500.3	547.6	628.1	675.5	680.2	18.9	18.9	30.0	48.9	71.0
65°	119.9	124.7	138.9	173.6	205.2	225.7	14.2	17.4	26.8	45.8	66.3
67.5°	18.9	20.5	20.5	25.3	28.4	28.4	12.6	15.8	23.7	41.0	61.5
70°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.2	20.5	36.3	55.2
72.5°	9.5	9.5	9.5	9.5	9.5	9.5	11.0	12.6	17.4	31.6	47.3
75°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	11.0	14.2	25.3	41.0
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	7.9	9.5	12.6	20.5	33.1
80°	4.7	4.7	4.7	4.7	4.7	4.7	6.3	7.9	9.5	15.8	25.3
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.7	6.3	7.9	12.6	18.9
85°	1.6	1.6	1.6	1.6	3.2	3.2	3.2	4.7	4.7	7.9	12.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	4.7	6.3
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: P1307267

CATALOG NUMBER: P3SQAS20R659027D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	153.1	153.1
2.5°	129.4	127.8
5°	116.8	116.8
7.5°	112.1	112.1
10°	110.5	112.1
12.5°	110.5	112.1
15°	110.5	112.1
17.5°	110.5	112.1
20°	108.9	110.5
22.5°	107.3	108.9
25°	105.7	108.9
27.5°	104.2	108.9
30°	104.2	108.9
32.5°	104.2	108.9
35°	102.6	108.9
37.5°	102.6	108.9
40°	102.6	108.9
42.5°	102.6	108.9
45°	102.6	108.9
47.5°	102.6	108.9
50°	102.6	108.9
52.5°	101.0	108.9
55°	101.0	107.3
57.5°	97.8	104.2
60°	94.7	101.0
62.5°	91.5	97.8
65°	86.8	93.1
67.5°	82.1	86.8
70°	74.2	80.5
72.5°	66.3	71.0
75°	56.8	61.5
77.5°	47.3	52.1
80°	37.9	41.0
82.5°	26.8	30.0
85°	17.4	18.9
87.5°	7.9	7.9
90°	0.0	0.0

(END OF REPORT)