

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: P1309503

Luminaire Tested: P3SQAS20R659035D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309503
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: P3SQAS20R659035D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

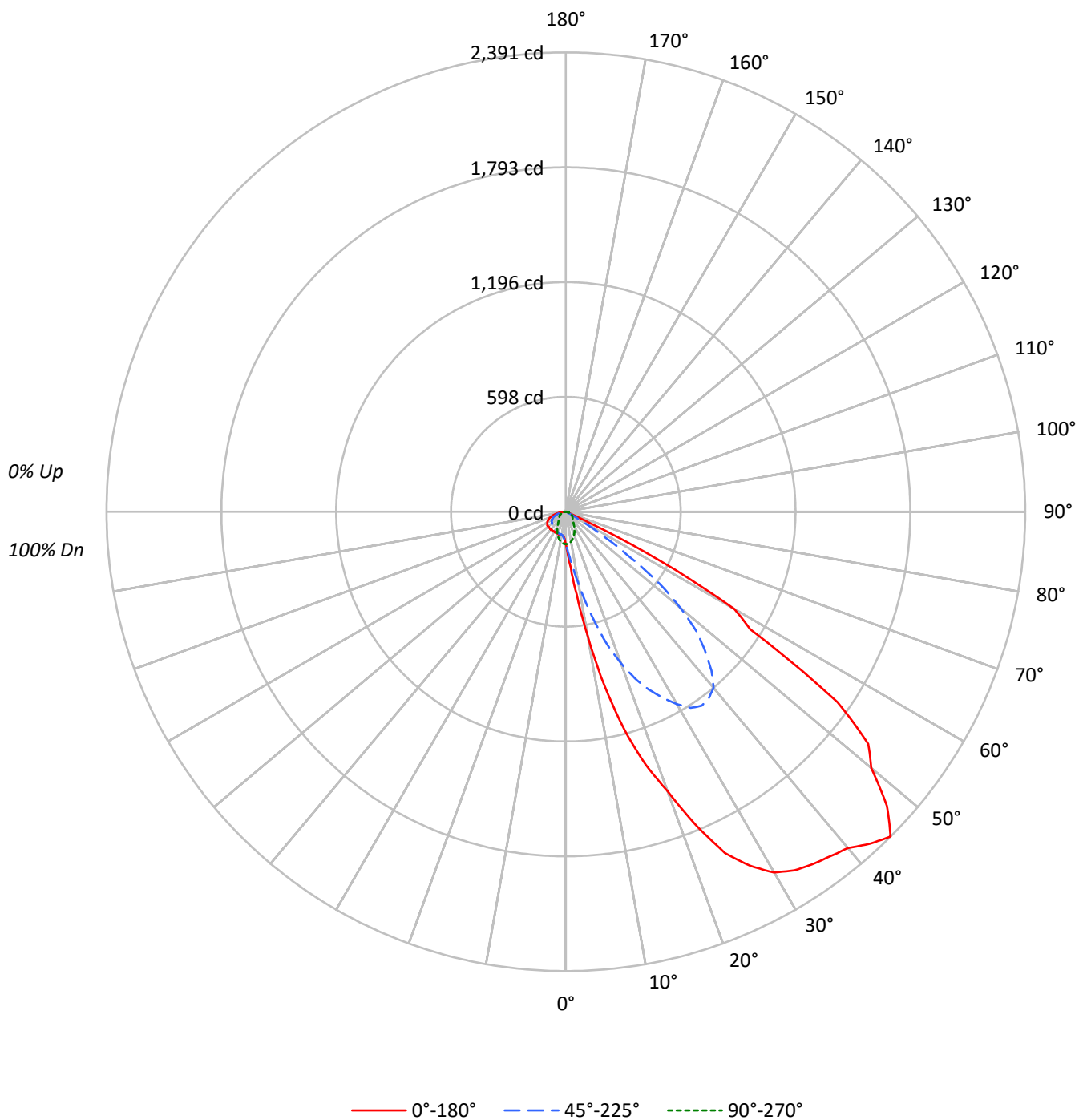
Lumens per Lamp: N/A
Luminaire Lumens: 1734.0 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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°	29037	29037	29037	29037	29037
5°	50792	41474	28560	23149	22250
10°	114931	66891	27369	21283	21580
15°	208930	107567	25425	21396	22002
20°	283271	153585	22946	21352	22305
25°	372338	193941	20162	20808	22803
30°	431160	229928	17281	20742	23864
35°	470802	259169	14612	21193	25229
40°	513603	268931	12905	22280	26978
45°	582254	249405	12275	23723	29227
50°	556198	208236	12110	25159	32152
55°	518401	116952	12521	27144	35491
60°	349130	25145	12572	28761	38337
65°	53833	6357	12062	29748	41811
70°	6143	6143	11380	30666	44664
75°	5789	5789	10381	30077	45115
80°	5157	6943	10315	27572	44829
85°	3359	6916	10275	27467	41299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 582254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	1.2
10°-20°	110.3	6.4
20°-30°	259.1	14.9
30°-40°	391.4	22.6
40°-50°	449.9	25.9
50°-60°	357.2	20.6
60°-70°	107.0	6.2
70°-80°	29.1	1.7
80°-90°	9.8	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°	389.7	22.5
0°-40°	781.1	45.0
0°-60°	1588.2	91.6
0°-90°	1734.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1734.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	169	169	169	169	169	
5°	294	240	165	134	129	39
15°	1172	603	143	120	123	337
25°	1959	1021	106	110	120	894
35°	2239	1233	70	101	120	1405
45°	2391	1024	50	97	120	1776
55°	1726	390	42	90	118	1422
65°	132	16	30	73	103	296
75°	9	9	16	45	68	9
85°	2	4	5	14	21	3
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6	168.6
2.5°	213.9	215.6	213.9	213.9	212.1	210.4	198.2	184.3	168.6	156.5	147.8
5°	293.8	295.6	290.3	290.3	286.9	281.7	239.9	199.9	165.2	146.0	133.9
7.5°	434.7	441.6	432.9	422.5	403.4	399.9	299.0	215.6	161.7	135.6	125.2
10°	657.2	652.0	643.3	622.4	589.4	573.7	382.5	231.2	156.5	128.7	121.7
12.5°	926.7	912.8	902.3	864.1	818.9	792.8	486.8	245.1	149.5	121.7	120.0
15°	1171.8	1161.4	1137.1	1100.5	1044.9	1024.0	603.3	253.8	142.6	116.5	120.0
17.5°	1378.7	1368.3	1354.4	1317.9	1260.5	1229.2	733.7	259.1	133.9	113.0	118.2
20°	1545.6	1538.7	1519.6	1490.0	1432.6	1403.1	838.0	259.1	125.2	109.5	116.5
22.5°	1761.2	1745.6	1721.2	1677.8	1606.5	1561.3	937.1	253.8	116.5	106.1	113.0
25°	1959.4	1949.0	1917.7	1865.5	1789.0	1743.8	1020.6	243.4	106.1	100.8	109.5
27.5°	2077.7	2070.7	2041.1	1987.2	1902.1	1867.3	1090.1	227.8	95.6	95.6	107.8
30°	2168.1	2154.2	2124.6	2072.4	1985.5	1943.8	1156.2	208.6	86.9	90.4	104.3
32.5°	2213.3	2208.0	2182.0	2136.8	2051.6	2004.6	1210.1	184.3	76.5	86.9	102.6
35°	2239.3	2234.1	2213.3	2169.8	2089.8	2044.6	1232.7	161.7	69.5	83.5	100.8
37.5°	2260.2	2255.0	2228.9	2185.4	2105.5	2058.5	1222.3	137.4	62.6	80.0	99.1
40°	2284.5	2265.4	2225.4	2182.0	2108.9	2063.7	1196.2	114.7	57.4	78.2	99.1
42.5°	2343.7	2277.6	2215.0	2175.0	2105.5	2053.3	1121.4	90.4	52.2	74.8	97.4
45°	2390.6	2274.1	2194.1	2162.8	2091.6	2032.4	1024.0	66.1	50.4	73.0	97.4
47.5°	2267.2	2195.9	2159.4	2142.0	2065.5	2001.2	923.2	45.2	48.7	71.3	95.6
50°	2075.9	2067.2	2053.3	2055.1	1985.5	1933.3	777.2	31.3	45.2	69.5	93.9
52.5°	1983.8	1973.3	1949.0	1931.6	1862.1	1816.9	615.5	24.3	43.5	67.8	92.1
55°	1726.5	1733.4	1707.3	1717.8	1696.9	1674.3	389.5	22.6	41.7	64.3	90.4
57.5°	1137.1	1171.8	1232.7	1305.7	1371.8	1417.0	210.4	22.6	38.2	62.6	86.9
60°	1013.6	1004.9	1003.2	1017.1	1046.6	1071.0	73.0	20.9	36.5	57.4	83.5
62.5°	554.6	551.1	603.3	692.0	744.1	749.3	20.9	20.9	33.0	53.9	78.2
65°	132.1	137.4	153.0	191.2	226.0	248.6	15.6	19.1	29.6	50.4	73.0
67.5°	20.9	22.6	22.6	27.8	31.3	31.3	13.9	17.4	26.1	45.2	67.8
70°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	15.6	22.6	40.0	60.9
72.5°	10.4	10.4	10.4	10.4	10.4	10.4	12.2	13.9	19.1	34.8	52.2
75°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	12.2	15.6	27.8	45.2
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	8.7	10.4	13.9	22.6	36.5
80°	5.2	5.2	5.2	5.2	5.2	5.2	7.0	8.7	10.4	17.4	27.8
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	5.2	7.0	8.7	13.9	20.9
85°	1.7	1.7	1.7	1.7	3.5	3.5	3.5	5.2	5.2	8.7	13.9
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5	5.2	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	168.6	168.6
2.5°	142.6	140.8
5°	128.7	128.7
7.5°	123.4	123.4
10°	121.7	123.4
12.5°	121.7	123.4
15°	121.7	123.4
17.5°	121.7	123.4
20°	120.0	121.7
22.5°	118.2	120.0
25°	116.5	120.0
27.5°	114.7	120.0
30°	114.7	120.0
32.5°	114.7	120.0
35°	113.0	120.0
37.5°	113.0	120.0
40°	113.0	120.0
42.5°	113.0	120.0
45°	113.0	120.0
47.5°	113.0	120.0
50°	113.0	120.0
52.5°	111.3	120.0
55°	111.3	118.2
57.5°	107.8	114.7
60°	104.3	111.3
62.5°	100.8	107.8
65°	95.6	102.6
67.5°	90.4	95.6
70°	81.7	88.7
72.5°	73.0	78.2
75°	62.6	67.8
77.5°	52.2	57.4
80°	41.7	45.2
82.5°	29.6	33.0
85°	19.1	20.9
87.5°	8.7	8.7
90°	0.0	0.0

(END OF REPORT)