

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: P1315707

Luminaire Tested: P3SQAS20R509740D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R509740D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

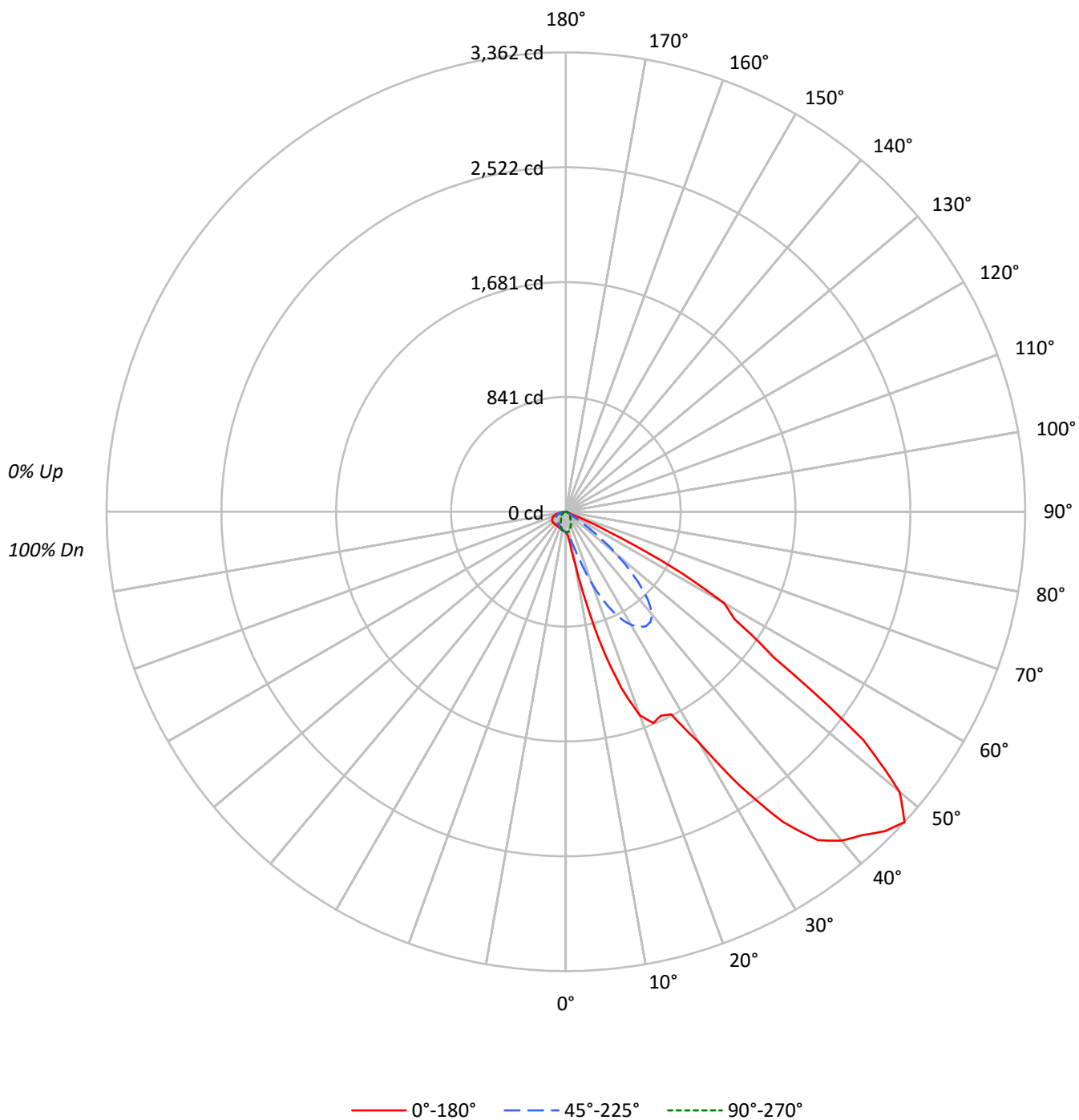
Lumens per Lamp: N/A
Luminaire Lumens: 1896.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25954	25954	25954	25954	25954
5°	30859	28871	25759	24635	24342
10°	66437	35798	24623	23766	24063
15°	183950	58696	22198	22769	23642
20°	290840	102946	19207	21901	23111
25°	312746	151242	16494	21169	23335
30°	388205	189857	14338	20841	24103
35°	582568	214849	12404	21003	25482
40°	706522	220909	11039	21718	26866
45°	804916	189465	10765	23138	29519
50°	854298	130750	10958	24998	32902
55°	558095	52606	10809	27054	36392
60°	460282	9024	10712	29347	40059
65°	138799	4686	10025	31379	44052
70°	5791	4935	9920	32177	47837
75°	5456	5456	9782	32672	52302
80°	4860	4860	9720	32531	53557
85°	3162	6521	13042	32407	51772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 857072 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	0.8
10°-20°	89.8	4.7
20°-30°	230.8	12.2
30°-40°	414.6	21.9
40°-50°	553.7	29.2
50°-60°	421.8	22.2
60°-70°	128.0	6.8
70°-80°	30.6	1.6
80°-90°	11.1	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°	336.3	17.7
0°-40°	750.8	39.6
0°-60°	1726.3	91.1
0°-90°	1896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	151	151	151	151	151	
5°	178	167	149	142	141	23
15°	1032	329	124	128	133	304
25°	1646	796	87	111	123	785
35°	2771	1022	59	100	121	1701
45°	3305	778	44	95	121	2527
55°	1859	175	36	90	121	1849
65°	341	12	25	77	108	471
75°	8	8	15	49	79	9
85°	2	3	7	16	26	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7	150.7
2.5°	160.5	160.5	160.5	160.5	160.5	160.5	158.9	158.9	158.9	155.6	152.3
5°	178.5	180.1	178.5	178.5	175.2	175.2	172.0	172.0	167.0	157.2	149.0
7.5°	234.2	232.5	230.9	224.4	219.4	208.0	203.1	194.9	180.1	157.2	145.8
10°	379.9	370.1	363.6	348.8	317.7	298.1	271.8	245.6	204.7	157.2	140.8
12.5°	660.0	658.3	638.7	589.6	545.3	484.7	420.9	357.0	252.2	153.9	134.3
15°	1031.7	1017.0	989.1	931.8	853.2	758.2	643.6	530.6	329.2	149.0	124.5
17.5°	1349.4	1331.4	1310.1	1252.8	1162.7	1043.2	905.6	750.0	434.0	142.5	114.6
20°	1586.9	1575.4	1557.4	1511.6	1426.4	1318.3	1164.4	976.0	561.7	134.3	104.8
22.5°	1673.7	1672.0	1675.3	1658.9	1616.4	1531.2	1383.8	1187.3	687.8	124.5	95.0
25°	1645.8	1644.2	1665.5	1686.8	1696.6	1662.2	1549.2	1357.6	795.9	116.3	86.8
27.5°	1672.0	1667.1	1657.3	1660.6	1688.4	1708.1	1655.7	1488.6	889.2	104.8	78.6
30°	1952.1	1924.2	1880.0	1804.7	1749.0	1744.1	1721.2	1591.8	954.7	93.3	72.1
32.5°	2389.3	2354.9	2274.7	2135.5	2002.8	1901.3	1829.3	1678.6	1000.6	81.9	63.9
35°	2770.9	2746.3	2653.0	2515.4	2325.5	2135.5	2004.5	1806.3	1021.9	72.1	59.0
37.5°	3029.7	3019.8	2928.1	2780.7	2587.5	2363.1	2189.5	1937.3	1017.0	60.6	54.0
40°	3142.6	3113.2	3036.2	2911.7	2716.9	2515.4	2332.0	2020.9	982.6	49.1	49.1
42.5°	3209.8	3177.0	3093.5	2975.6	2784.0	2569.5	2348.4	1984.8	900.7	39.3	47.5
45°	3304.8	3270.4	3160.7	3034.6	2841.3	2592.4	2284.5	1857.1	777.9	29.5	44.2
47.5°	3362.1	3339.2	3257.3	3131.2	2897.0	2559.6	2137.1	1737.5	642.0	22.9	42.6
50°	3188.5	3165.6	3105.0	3018.2	2861.0	2449.9	2007.8	1544.3	488.0	18.0	40.9
52.5°	2744.7	2764.4	2775.8	2800.4	2685.7	2204.3	1814.5	1390.4	329.2	14.7	37.7
55°	1858.7	1888.2	1921.0	2019.2	2153.5	1961.9	1611.4	1202.0	175.2	14.7	36.0
57.5°	1460.8	1451.0	1441.1	1434.6	1539.4	1618.0	1416.6	961.3	75.3	14.7	32.8
60°	1336.3	1306.8	1287.2	1292.1	1344.5	1313.4	1121.8	627.2	26.2	14.7	31.1
62.5°	876.1	899.1	943.3	1018.6	982.6	843.4	651.8	248.9	13.1	14.7	27.8
65°	340.6	329.2	340.6	361.9	312.8	232.5	145.8	44.2	11.5	13.1	24.6
67.5°	45.9	40.9	31.1	19.7	18.0	16.4	13.1	11.5	11.5	13.1	22.9
70°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	9.8	9.8	11.5	19.7
72.5°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	11.5	16.4
75°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9.8	14.7
77.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	8.2	11.5
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.6	9.8
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9	6.6	8.2
85°	1.6	3.3	1.6	3.3	3.3	3.3	3.3	3.3	3.3	4.9	6.6
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	4.9	4.9
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):

	112.5°	135°	157.5°	180°
0°	150.7	150.7	150.7	150.7
2.5°	149.0	145.8	145.8	145.8
5°	145.8	142.5	142.5	140.8
7.5°	140.8	139.2	139.2	139.2
10°	137.6	135.9	137.6	137.6
12.5°	131.0	132.6	134.3	134.3
15°	124.5	127.7	131.0	132.6
17.5°	117.9	124.5	127.7	129.4
20°	111.4	119.5	124.5	126.1
22.5°	106.4	114.6	121.2	124.5
25°	99.9	111.4	119.5	122.8
27.5°	93.3	106.4	116.3	121.2
30°	88.4	104.8	116.3	121.2
32.5°	83.5	101.5	114.6	119.5
35°	80.2	99.9	114.6	121.2
37.5°	77.0	98.3	114.6	119.5
40°	75.3	96.6	114.6	119.5
42.5°	73.7	96.6	114.6	121.2
45°	70.4	95.0	114.6	121.2
47.5°	68.8	95.0	114.6	121.2
50°	67.1	93.3	114.6	122.8
52.5°	65.5	91.7	114.6	122.8
55°	62.2	90.1	113.0	121.2
57.5°	60.6	88.4	111.4	117.9
60°	57.3	85.2	108.1	116.3
62.5°	54.0	81.9	104.8	111.4
65°	49.1	77.0	99.9	108.1
67.5°	44.2	70.4	95.0	103.2
70°	39.3	63.9	88.4	95.0
72.5°	34.4	57.3	81.9	86.8
75°	29.5	49.1	72.1	78.6
77.5°	24.6	42.6	60.6	65.5
80°	18.0	32.8	49.1	54.0
82.5°	14.7	24.6	36.0	39.3
85°	9.8	16.4	22.9	26.2
87.5°	4.9	8.2	11.5	13.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)