

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: P1316446

Luminaire Tested: P3SQAS17R559827DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R559827DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

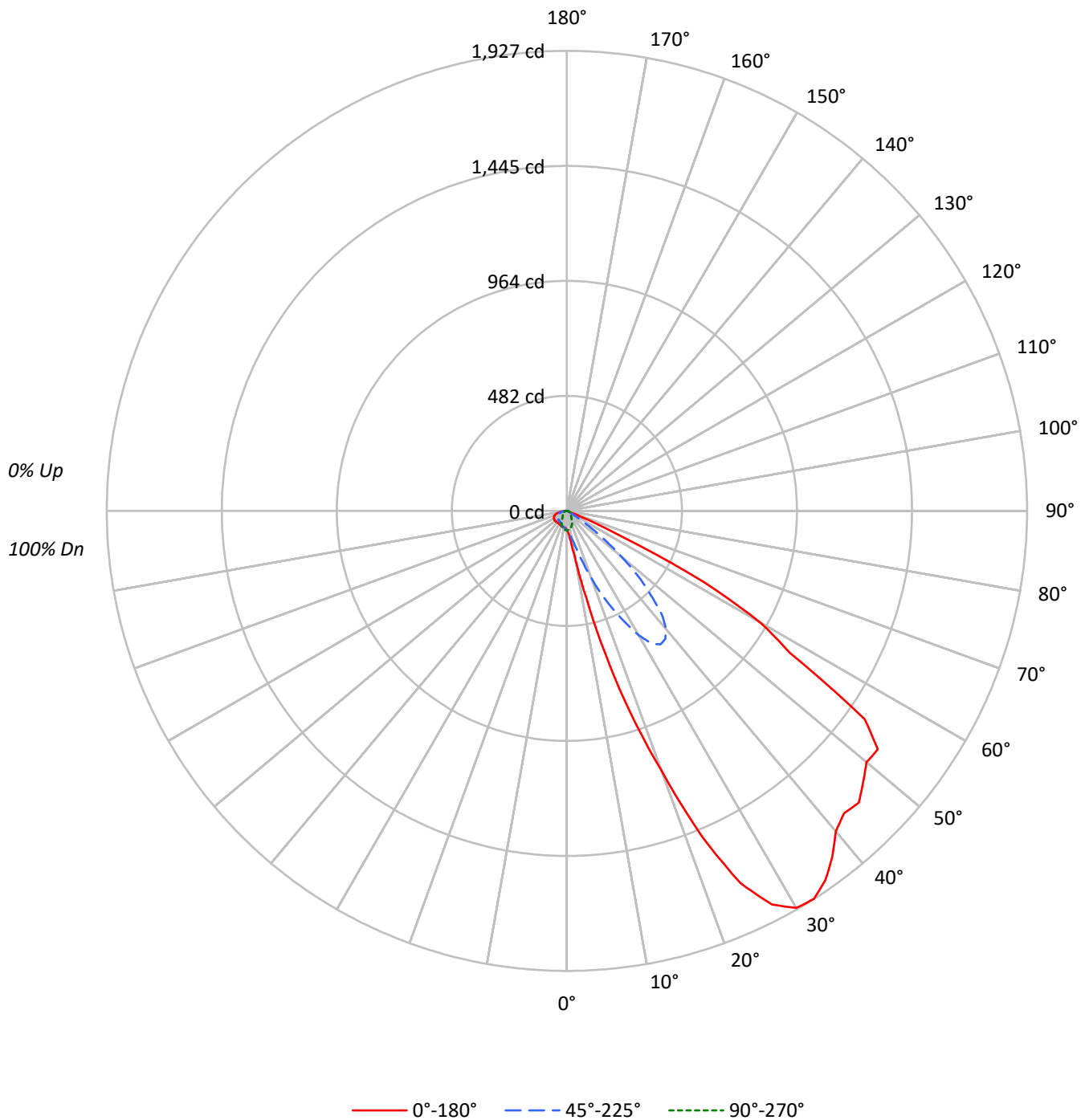
Lumens per Lamp: N/A
Luminaire Lumens: 1239.0 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13761	13761	13761	13761	13761
5°	17599	16095	13813	12862	12499
10°	35798	20478	13396	12259	12259
15°	109885	31434	12499	11910	12303
20°	212471	54983	11235	11638	12243
25°	327017	85493	9786	11231	12276
30°	381862	119518	8054	11097	12628
35°	396795	143618	6665	11038	13119
40°	393796	144964	6160	11578	14276
45°	421017	119977	5870	12543	15466
50°	438790	79200	5868	13504	17308
55°	456907	34500	5915	14803	19067
60°	322780	7922	6028	16223	21493
65°	105301	2690	5787	17401	24084
70°	3323	2769	6043	18732	27544
75°	2928	2928	5124	19696	30609
80°	2182	3273	5455	19538	32531
85°	2174	4347	6521	19563	32407

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 464250 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	0.7
10°-20°	52.6	4.2
20°-30°	176.3	14.2
30°-40°	289.6	23.4
40°-50°	323.0	26.1
50°-60°	271.9	21.9
60°-70°	92.2	7.4
70°-80°	18.1	1.5
80°-90°	6.8	0.5
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°	237.4	19.2
0°-40°	527.0	42.5
0°-60°	1122.0	90.6
0°-90°	1239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1239.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	80	80	80	80	80	
5°	102	93	80	74	72	13
15°	616	176	70	67	69	195
25°	1721	450	52	59	65	773
35°	1887	683	32	52	62	1172
45°	1729	493	24	52	64	1320
55°	1522	115	20	49	64	1239
65°	258	7	14	43	59	350
75°	4	4	8	30	46	5
85°	1	2	3	10	16	1
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°	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
2.5°	87.6	87.6	87.6	87.6	87.6	87.6	86.5	83.2	81.0	77.7	76.6
5°	101.8	101.8	101.8	100.7	100.7	98.5	93.1	85.4	79.9	75.5	74.4
7.5°	131.4	130.3	128.1	127.0	123.7	122.6	102.9	87.6	78.8	73.3	72.3
10°	204.7	202.5	199.2	187.2	176.3	168.6	117.1	88.7	76.6	71.2	70.1
12.5°	368.9	364.5	348.1	322.9	292.3	277.0	140.1	89.8	73.3	69.0	69.0
15°	616.3	610.9	580.2	545.2	489.3	458.7	176.3	88.7	70.1	65.7	66.8
17.5°	890.0	874.7	842.9	797.0	721.4	685.3	229.9	86.5	65.7	63.5	65.7
20°	1159.3	1154.9	1102.4	1040.0	946.9	898.8	300.0	83.2	61.3	60.2	63.5
22.5°	1474.6	1456.0	1400.2	1333.4	1205.3	1141.8	375.5	78.8	56.9	56.9	61.3
25°	1720.9	1699.0	1655.2	1577.5	1456.0	1388.1	449.9	73.3	51.5	53.6	59.1
27.5°	1858.9	1833.7	1800.8	1734.1	1639.9	1579.7	524.4	66.8	46.0	50.4	56.9
30°	1920.2	1913.6	1889.5	1840.2	1753.8	1700.1	601.0	59.1	40.5	47.1	55.8
32.5°	1926.7	1930.0	1920.2	1888.4	1822.7	1776.7	657.9	52.5	36.1	44.9	53.6
35°	1887.3	1899.4	1905.9	1892.8	1850.1	1812.9	683.1	44.9	31.7	42.7	52.5
37.5°	1826.0	1847.9	1869.8	1873.1	1846.8	1822.7	676.5	38.3	29.6	41.6	52.5
40°	1751.6	1771.3	1816.2	1844.6	1835.9	1818.3	644.8	31.7	27.4	39.4	51.5
42.5°	1717.6	1722.0	1770.2	1818.3	1816.2	1801.9	589.0	25.2	25.2	39.4	51.5
45°	1728.6	1708.9	1740.6	1796.5	1793.2	1774.6	492.6	19.7	24.1	38.3	51.5
47.5°	1682.6	1655.2	1708.9	1774.6	1762.5	1735.1	407.2	14.2	23.0	37.2	50.4
50°	1637.7	1633.3	1674.9	1707.8	1691.4	1676.0	295.6	10.9	21.9	36.1	50.4
52.5°	1641.0	1633.3	1637.7	1636.6	1603.8	1587.4	202.5	8.8	20.8	35.0	50.4
55°	1521.7	1497.6	1474.6	1481.2	1483.4	1472.4	114.9	7.7	19.7	35.0	49.3
57.5°	1105.7	1099.1	1124.3	1195.4	1251.3	1257.8	55.8	7.7	18.6	33.9	48.2
60°	937.1	932.7	933.8	954.6	984.2	965.6	23.0	7.7	17.5	32.8	47.1
62.5°	645.9	688.6	706.1	754.3	734.6	708.3	8.8	8.8	16.4	30.7	46.0
65°	258.4	257.3	281.3	304.3	297.8	278.1	6.6	7.7	14.2	28.5	42.7
67.5°	60.2	54.7	47.1	40.5	33.9	27.4	6.6	7.7	13.1	26.3	40.5
70°	6.6	6.6	6.6	6.6	6.6	5.5	5.5	7.7	12.0	24.1	37.2
72.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.6	9.9	20.8	33.9
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	5.5	7.7	17.5	29.6
77.5°	3.3	3.3	3.3	4.4	3.3	4.4	4.4	5.5	6.6	14.2	25.2
80°	2.2	2.2	3.3	3.3	3.3	3.3	3.3	4.4	5.5	12.0	19.7
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	3.3	3.3	4.4	8.8	14.2
85°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.3	3.3	6.6	9.9
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.3	3.3	4.4
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°	79.9	79.9
2.5°	75.5	75.5
5°	73.3	72.3
7.5°	71.2	71.2
10°	70.1	70.1
12.5°	69.0	70.1
15°	69.0	69.0
17.5°	66.8	67.9
20°	65.7	66.8
22.5°	64.6	65.7
25°	63.5	64.6
27.5°	62.4	63.5
30°	61.3	63.5
32.5°	60.2	62.4
35°	60.2	62.4
37.5°	60.2	63.5
40°	60.2	63.5
42.5°	60.2	63.5
45°	60.2	63.5
47.5°	60.2	63.5
50°	60.2	64.6
52.5°	60.2	64.6
55°	60.2	63.5
57.5°	59.1	63.5
60°	59.1	62.4
62.5°	58.0	61.3
65°	55.8	59.1
67.5°	53.6	58.0
70°	50.4	54.7
72.5°	47.1	50.4
75°	42.7	46.0
77.5°	37.2	39.4
80°	29.6	32.8
82.5°	23.0	25.2
85°	15.3	16.4
87.5°	6.6	7.7
90°	0.0	0.0

(END OF REPORT)