

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: P1310302

Luminaire Tested: P3SQAS13R559040DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310302
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: P3SQAS13R559040DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

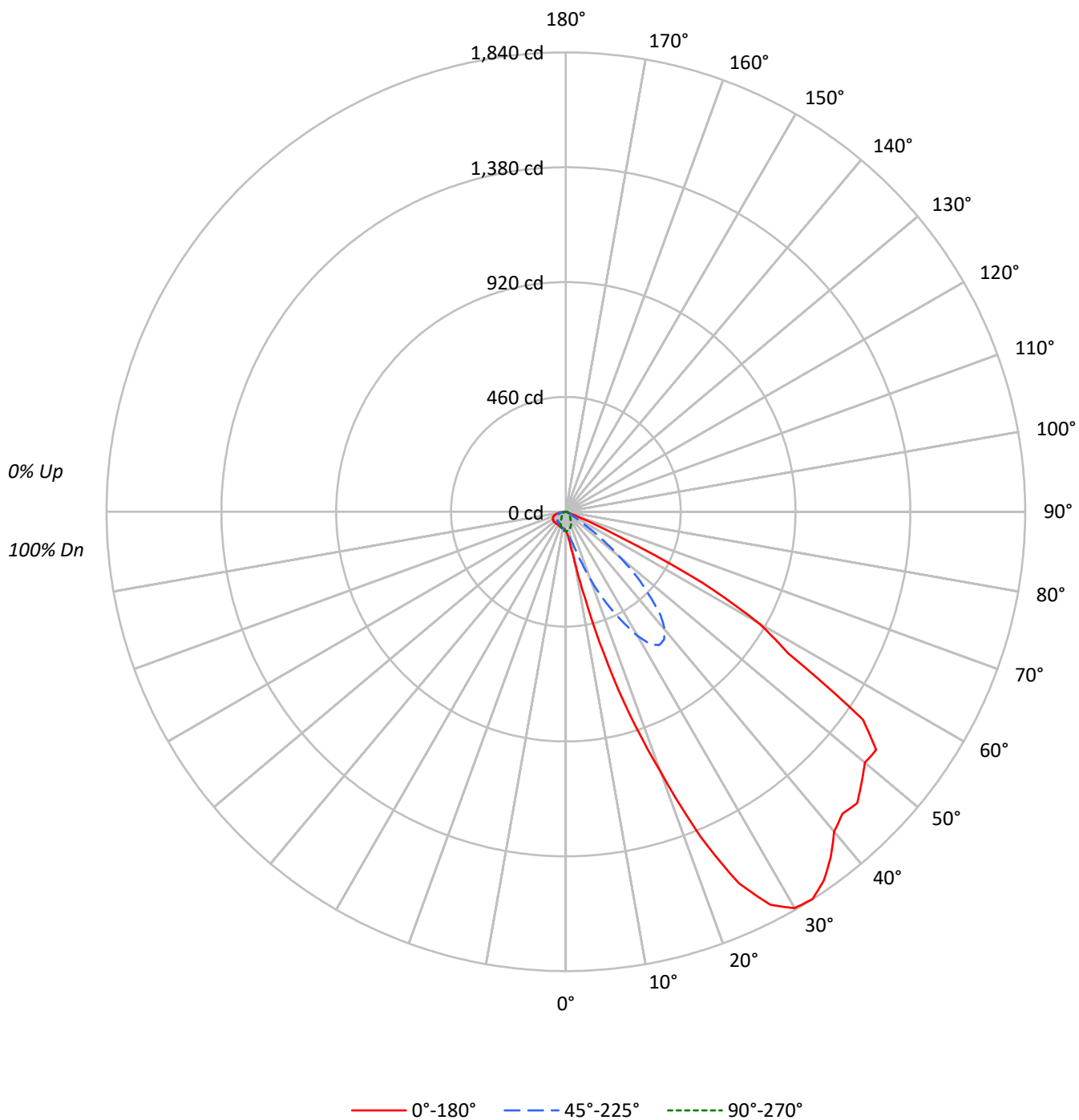
Lumens per Lamp: N/A
Luminaire Lumens: 1183.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	0
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°	13141	13141	13141	13141	13141
5°	16804	15352	13191	12292	11929
10°	34189	19552	12801	11699	11699
15°	104928	30008	11928	11375	11750
20°	202868	52490	10722	11106	11693
25°	312233	81635	9330	10718	11725
30°	364600	114109	7696	10600	12051
35°	378862	137122	6370	10554	12531
40°	375990	138422	5868	11039	13624
45°	401995	114570	5602	11959	14760
50°	418963	75610	5600	12887	16531
55°	436249	32969	5645	14112	18196
60°	308175	7578	5752	15466	20529
65°	100534	2567	5542	16627	22984
70°	3172	2618	5791	17876	26335
75°	2795	2795	4858	18765	29212
80°	2083	3075	5157	18646	31142
85°	1976	4150	6126	18575	31024

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 443258 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.7
10°-20°	50.2	4.2
20°-30°	168.4	14.2
30°-40°	276.5	23.4
40°-50°	308.4	26.1
50°-60°	259.6	21.9
60°-70°	88.1	7.4
70°-80°	17.2	1.5
80°-90°	6.5	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°	226.7	19.2
0°-40°	503.2	42.5
0°-60°	1071.2	90.6
0°-90°	1183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	76	76	76	76	76	
5°	97	89	76	71	69	12
15°	588	168	67	64	66	187
25°	1643	430	49	56	62	738
35°	1802	652	30	50	60	1119
45°	1650	470	23	49	61	1260
55°	1453	110	19	47	61	1183
65°	247	6	14	41	56	334
75°	4	4	7	28	44	4
85°	1	2	3	9	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°	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
2.5°	83.6	83.6	83.6	83.6	83.6	83.6	82.6	79.4	77.3	74.2	73.2
5°	97.2	97.2	97.2	96.2	96.2	94.1	88.8	81.5	76.3	72.1	71.1
7.5°	125.4	124.4	122.3	121.2	118.1	117.1	98.3	83.6	75.3	70.0	69.0
10°	195.5	193.4	190.2	178.7	168.3	161.0	111.8	84.7	73.2	67.9	66.9
12.5°	352.2	348.1	332.4	308.3	279.1	264.4	133.8	85.7	70.0	65.9	65.9
15°	588.5	583.3	554.0	520.5	467.2	438.0	168.3	84.7	66.9	62.7	63.8
17.5°	849.8	835.2	804.8	760.9	688.8	654.3	219.5	82.6	62.7	60.6	62.7
20°	1106.9	1102.7	1052.6	993.0	904.1	858.2	286.4	79.4	58.5	57.5	60.6
22.5°	1408.0	1390.2	1336.9	1273.1	1150.8	1090.2	358.5	75.3	54.4	54.4	58.5
25°	1643.1	1622.2	1580.4	1506.2	1390.2	1325.4	429.6	70.0	49.1	51.2	56.4
27.5°	1774.8	1750.8	1719.4	1655.7	1565.8	1508.3	500.7	63.8	43.9	48.1	54.4
30°	1833.4	1827.1	1804.1	1757.1	1674.5	1623.3	573.8	56.4	38.7	44.9	53.3
32.5°	1839.6	1842.8	1833.4	1803.1	1740.3	1696.4	628.2	50.2	34.5	42.9	51.2
35°	1802.0	1813.5	1819.8	1807.2	1766.5	1730.9	652.2	42.9	30.3	40.8	50.2
37.5°	1743.5	1764.4	1785.3	1788.4	1763.3	1740.3	646.0	36.6	28.2	39.7	50.2
40°	1672.4	1691.2	1734.1	1761.2	1752.9	1736.2	615.7	30.3	26.1	37.6	49.1
42.5°	1640.0	1644.2	1690.2	1736.2	1734.1	1720.5	562.3	24.0	24.0	37.6	49.1
45°	1650.5	1631.6	1661.9	1715.3	1712.1	1694.4	470.4	18.8	23.0	36.6	49.1
47.5°	1606.6	1580.4	1631.6	1694.4	1682.9	1656.7	388.8	13.6	22.0	35.5	48.1
50°	1563.7	1559.5	1599.2	1630.6	1614.9	1600.3	282.2	10.5	20.9	34.5	48.1
52.5°	1566.8	1559.5	1563.7	1562.7	1531.3	1515.6	193.4	8.4	19.9	33.4	48.1
55°	1452.9	1429.9	1408.0	1414.2	1416.3	1405.9	109.8	7.3	18.8	33.4	47.0
57.5°	1055.7	1049.4	1073.5	1141.4	1194.7	1201.0	53.3	7.3	17.8	32.4	46.0
60°	894.7	890.6	891.6	911.5	939.7	921.9	22.0	7.3	16.7	31.4	44.9
62.5°	616.7	657.5	674.2	720.2	701.4	676.3	8.4	8.4	15.7	29.3	43.9
65°	246.7	245.6	268.6	290.6	284.3	265.5	6.3	7.3	13.6	27.2	40.8
67.5°	57.5	52.3	44.9	38.7	32.4	26.1	6.3	7.3	12.5	25.1	38.7
70°	6.3	6.3	6.3	6.3	6.3	5.2	5.2	7.3	11.5	23.0	35.5
72.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.3	9.4	19.9	32.4
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.2	7.3	16.7	28.2
77.5°	3.1	3.1	3.1	4.2	3.1	4.2	4.2	5.2	6.3	13.6	24.0
80°	2.1	2.1	3.1	3.1	3.1	3.1	3.1	4.2	5.2	11.5	18.8
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	4.2	8.4	13.6
85°	1.0	1.0	1.0	1.0	1.0	2.1	2.1	3.1	3.1	6.3	9.4
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	3.1	3.1	4.2
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°	76.3	76.3
2.5°	72.1	72.1
5°	70.0	69.0
7.5°	67.9	67.9
10°	66.9	66.9
12.5°	65.9	66.9
15°	65.9	65.9
17.5°	63.8	64.8
20°	62.7	63.8
22.5°	61.7	62.7
25°	60.6	61.7
27.5°	59.6	60.6
30°	58.5	60.6
32.5°	57.5	59.6
35°	57.5	59.6
37.5°	57.5	60.6
40°	57.5	60.6
42.5°	57.5	60.6
45°	57.5	60.6
47.5°	57.5	60.6
50°	57.5	61.7
52.5°	57.5	61.7
55°	57.5	60.6
57.5°	56.4	60.6
60°	56.4	59.6
62.5°	55.4	58.5
65°	53.3	56.4
67.5°	51.2	55.4
70°	48.1	52.3
72.5°	44.9	48.1
75°	40.8	43.9
77.5°	35.5	37.6
80°	28.2	31.4
82.5°	22.0	24.0
85°	14.6	15.7
87.5°	6.3	7.3
90°	0.0	0.0

(END OF REPORT)