

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: P1307387

Luminaire Tested: P3SQAS24R509027D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R509027D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

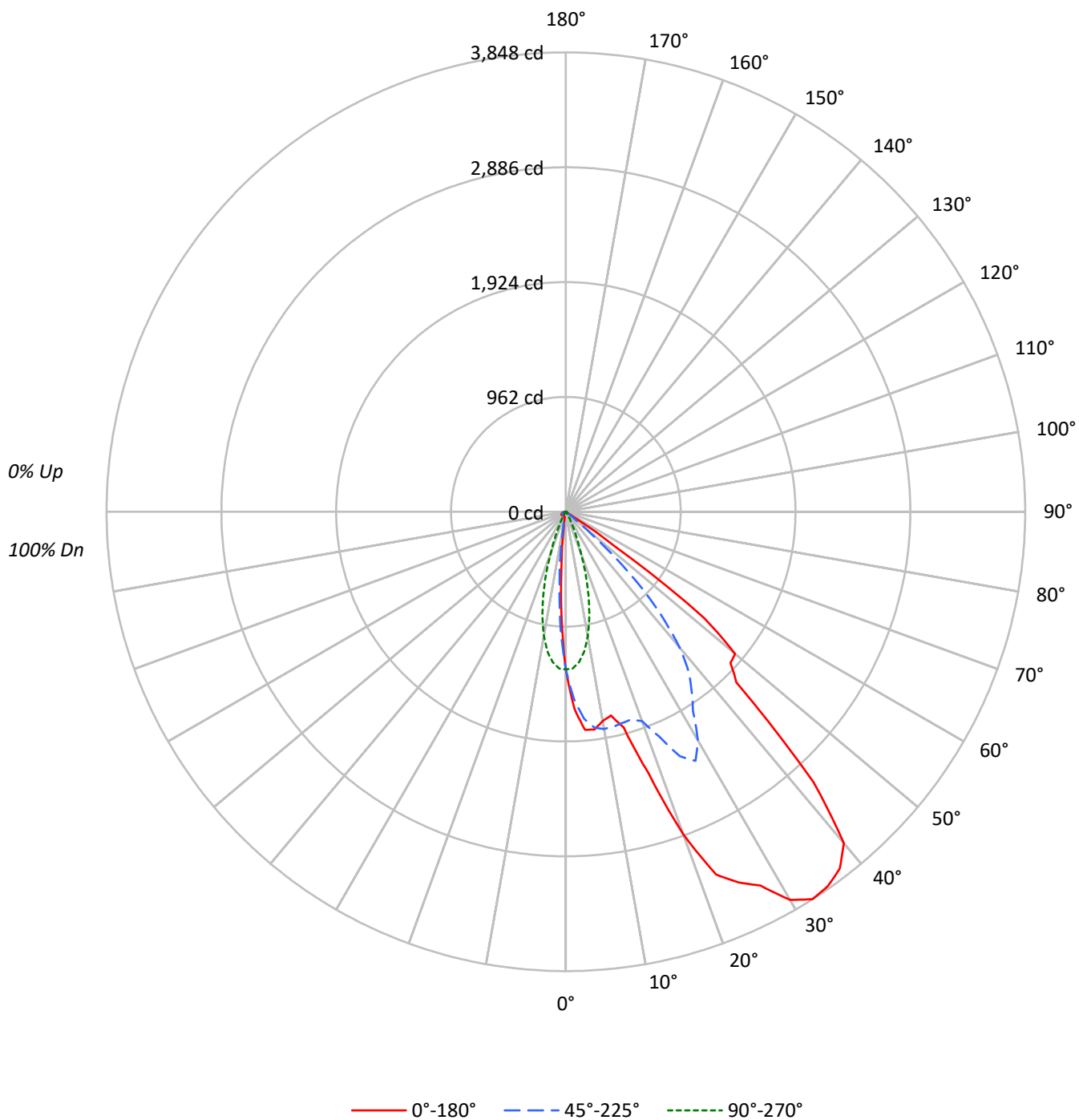
Lumens per Lamp: N/A
Luminaire Lumens: 2053.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	227317	227317	227317	227317	227317
5°	316959	300708	218504	105025	68149
10°	311146	323160	184655	22140	9478
15°	333667	326571	130568	7738	7417
20°	526899	341974	68930	6635	6964
25°	651088	429479	27478	6176	6879
30°	746462	440467	11156	6105	7199
35°	804755	386599	4941	6455	7989
40°	814615	332914	3665	7307	8948
45°	492331	215794	3532	7916	10132
50°	496074	37296	3885	9217	11628
55°	146587	2162	4354	10329	13031
60°	2480	2480	4374	11194	14329
65°	2201	2201	4401	11777	15486
70°	2719	2719	4532	12740	17322
75°	2396	2396	4791	13242	18033
80°	1785	3570	5356	12596	19737
85°	3557	7114	7114	14227	17784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 562355 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	5.2
10°-20°	265.0	12.9
20°-30°	496.5	24.2
30°-40°	593.6	28.9
40°-50°	425.4	20.7
50°-60°	131.1	6.4
60°-70°	17.1	0.8
70°-80°	12.4	0.6
80°-90°	5.1	0.2
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°	868.2	42.3
0°-40°	1461.8	71.2
0°-60°	2018.4	98.3
0°-90°	2053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2053.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1320	1320	1320	1320	1320	
5°	1833	1739	1264	608	394	170
15°	1871	1832	732	43	42	599
25°	3426	2260	145	32	36	1579
35°	3828	1839	24	31	38	2375
45°	2021	886	14	32	42	1857
55°	488	7	14	34	43	628
65°	5	5	11	29	38	6
75°	4	4	7	20	27	3
85°	2	4	4	7	9	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9
2.5°	1650.8	1654.4	1659.8	1645.4	1636.3	1629.1	1616.4	1612.8	1582.1	1569.4	1556.8
5°	1833.4	1829.8	1833.4	1828.0	1824.4	1813.5	1802.7	1784.6	1764.7	1739.4	1710.5
7.5°	1838.8	1835.2	1842.4	1842.4	1849.7	1849.7	1849.7	1851.5	1840.6	1822.6	1797.2
10°	1779.2	1779.2	1786.4	1782.8	1795.4	1800.9	1813.5	1835.2	1846.1	1847.9	1840.6
12.5°	1748.4	1748.4	1750.2	1743.0	1746.6	1752.0	1766.5	1791.8	1817.1	1842.4	1856.9
15°	1871.4	1875.0	1849.7	1813.5	1786.4	1757.5	1748.4	1764.7	1791.8	1831.6	1864.1
17.5°	2289.0	2294.5	2267.3	2180.6	2097.4	1978.0	1871.4	1818.9	1790.0	1822.6	1865.9
20°	2874.9	2855.0	2808.0	2715.7	2594.6	2410.2	2243.8	2075.7	1914.8	1865.9	1880.4
22.5°	3288.9	3281.7	3243.7	3140.6	3035.8	2864.0	2652.5	2417.4	2184.2	2035.9	1958.2
25°	3426.3	3420.9	3386.5	3325.1	3267.2	3137.0	2947.2	2710.3	2466.2	2260.1	2064.8
27.5°	3529.4	3522.2	3467.9	3399.2	3339.5	3207.5	3034.0	2855.0	2630.8	2352.3	2052.2
30°	3753.6	3733.7	3657.8	3534.8	3420.9	3238.3	3046.6	2824.2	2520.5	2214.9	1922.0
32.5°	3847.6	3836.8	3771.7	3672.2	3547.5	3308.8	3017.7	2645.2	2245.6	1981.7	1768.3
35°	3827.7	3811.4	3744.6	3630.6	3478.8	3249.1	2860.4	2348.7	2023.3	1838.8	1598.3
37.5°	3768.1	3744.6	3665.0	3531.2	3346.8	3046.6	2538.6	2108.2	1898.5	1690.6	1366.9
40°	3623.4	3585.4	3493.2	3354.0	3169.6	2775.4	2245.6	1963.6	1768.3	1480.8	1108.4
42.5°	3070.1	3050.2	3095.4	3071.9	2909.2	2444.5	2037.7	1831.6	1562.2	1197.0	802.8
45°	2021.4	2055.8	2137.2	2276.4	2308.9	2102.8	1867.8	1614.6	1285.6	886.0	462.9
47.5°	1871.4	1864.1	1884.0	1911.1	1916.6	1829.8	1616.4	1334.4	954.7	506.3	128.4
50°	1851.5	1840.6	1824.4	1791.8	1723.1	1555.0	1312.7	972.8	551.5	139.2	9.0
52.5°	1462.7	1451.9	1451.9	1404.9	1316.3	1153.6	905.9	535.2	153.7	9.0	7.2
55°	488.2	520.7	515.3	513.5	553.3	509.9	390.5	137.4	12.7	7.2	7.2
57.5°	9.0	9.0	9.0	16.3	25.3	36.2	21.7	10.8	7.2	7.2	7.2
60°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
62.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
65°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.2
67.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
70°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.4	5.4	5.4
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.4
77.5°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9	1319.9
2.5°	1527.8	1502.5	1453.7	1314.5	1160.8	985.4	866.1	851.6
5°	1665.2	1627.3	1547.7	1263.9	913.1	607.5	452.0	394.2
7.5°	1755.7	1705.0	1607.4	1180.7	665.4	320.0	171.8	137.4
10°	1809.9	1762.9	1638.1	1055.9	423.1	126.6	57.9	54.2
12.5°	1838.8	1793.6	1649.0	905.9	238.7	57.9	45.2	45.2
15°	1858.7	1809.9	1632.7	732.3	119.3	43.4	41.6	41.6
17.5°	1867.8	1808.1	1585.7	551.5	63.3	39.8	39.8	39.8
20°	1873.2	1788.2	1498.9	376.1	43.4	36.2	38.0	38.0
22.5°	1878.6	1739.4	1385.0	238.7	34.4	34.4	36.2	36.2
25°	1867.8	1654.4	1224.1	144.6	30.7	32.5	34.4	36.2
27.5°	1790.0	1526.0	1028.8	88.6	27.1	30.7	34.4	36.2
30°	1656.2	1338.0	802.8	56.1	25.3	30.7	34.4	36.2
32.5°	1482.6	1122.8	573.2	34.4	25.3	30.7	34.4	36.2
35°	1249.4	858.8	372.5	23.5	25.3	30.7	36.2	38.0
37.5°	987.2	600.3	200.7	18.1	25.3	30.7	36.2	38.0
40°	710.6	359.8	72.3	16.3	23.5	32.5	38.0	39.8
42.5°	415.9	133.8	12.7	14.5	23.5	32.5	38.0	39.8
45°	119.3	14.5	7.2	14.5	23.5	32.5	39.8	41.6
47.5°	9.0	5.4	7.2	14.5	23.5	32.5	39.8	43.4
50°	5.4	5.4	5.4	14.5	23.5	34.4	41.6	43.4
52.5°	7.2	7.2	7.2	14.5	23.5	34.4	41.6	43.4
55°	7.2	7.2	7.2	14.5	23.5	34.4	41.6	43.4
57.5°	7.2	7.2	7.2	14.5	23.5	32.5	41.6	43.4
60°	7.2	7.2	7.2	12.7	21.7	32.5	39.8	41.6
62.5°	7.2	7.2	7.2	12.7	21.7	30.7	39.8	39.8
65°	7.2	7.2	7.2	10.8	19.9	28.9	36.2	38.0
67.5°	7.2	7.2	7.2	10.8	18.1	27.1	34.4	36.2
70°	5.4	7.2	7.2	9.0	16.3	25.3	32.5	34.4
72.5°	5.4	5.4	7.2	9.0	14.5	21.7	28.9	30.7
75°	5.4	5.4	5.4	7.2	12.7	19.9	25.3	27.1
77.5°	5.4	5.4	5.4	7.2	10.8	16.3	23.5	23.5
80°	3.6	5.4	5.4	5.4	9.0	12.7	18.1	19.9
82.5°	3.6	3.6	3.6	5.4	7.2	10.8	14.5	14.5
85°	3.6	3.6	3.6	3.6	5.4	7.2	9.0	9.0
87.5°	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)