

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: P1307396

Luminaire Tested: P3SQAS24R559027D010 E3SQCA301MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R559027D010 E3SQCA301MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , E3SQCA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

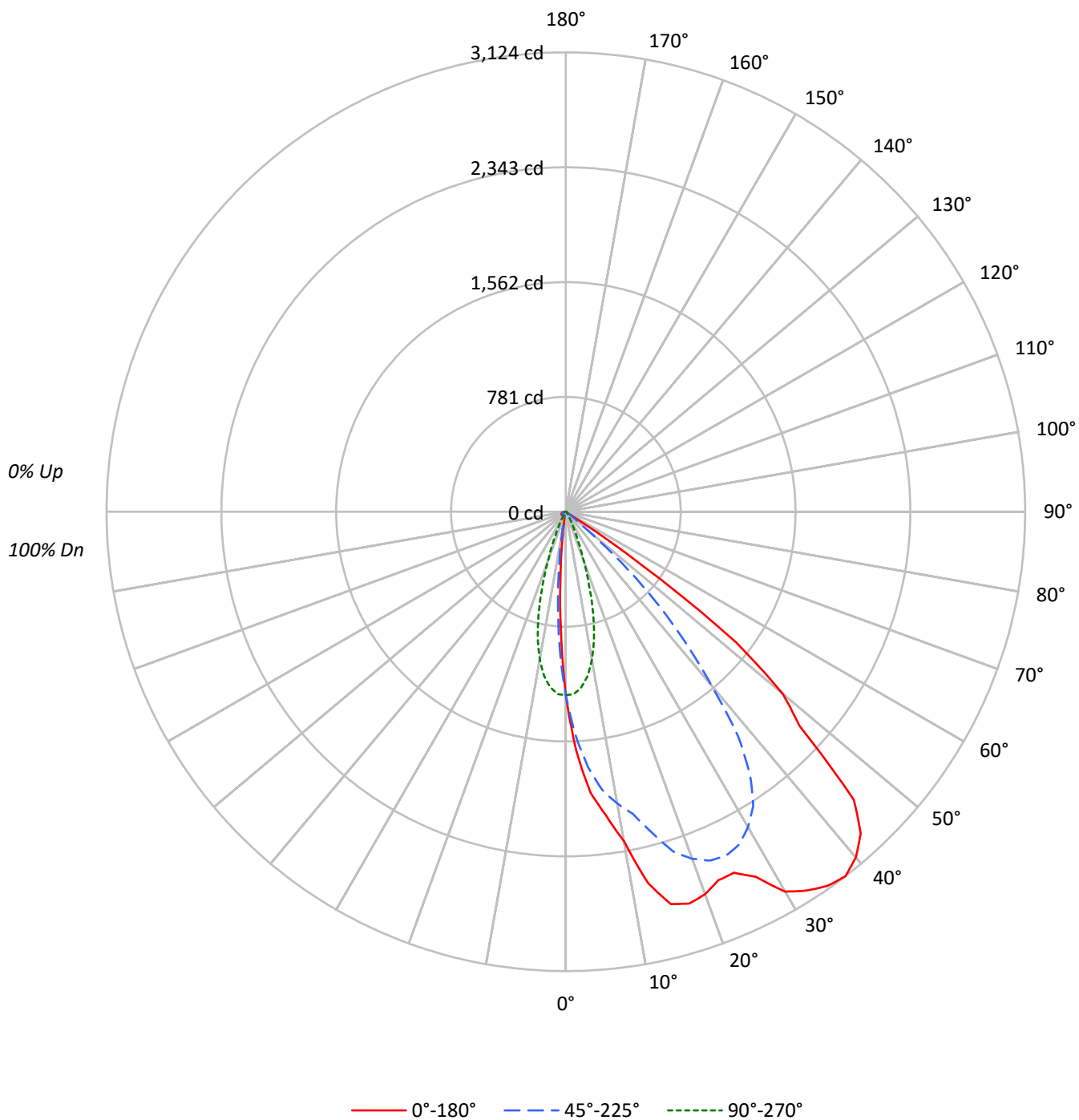
Lumens per Lamp: N/A
Luminaire Lumens: 2080.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1307396

CATALOG NUMBER: P3SQAS24R559027D010 E3SQCA301MW

Luminous Intensity Polar Plot



TEST NUMBER: P1307396

CATALOG NUMBER: P3SQAS24R559027D010 E3SQCA301MW

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	112	109	106	103	110	107	104	102	103	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	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77		83	79	76		81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69		77	72	68		75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62		70	65	61		69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56		65	59	55		63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46		55	50	46		54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42		51	46	42		50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	214710	214710	214710	214710	214710
5°	331101	301417	207405	106512	69965
10°	397798	352312	178517	26861	10738
15°	492566	402365	127572	7417	5795
20°	507307	460278	65888	4967	4967
25°	514668	490288	26433	4466	5150
30°	593216	492610	11494	4673	5389
35°	653000	459259	4941	4941	6076
40°	689727	345684	2833	5688	6497
45°	674611	211239	2630	6162	7916
50°	516035	45012	2894	7261	9190
55°	189345	1621	3243	8137	10299
60°	1860	1860	3720	9334	11814
65°	2201	2201	4401	9577	12511
70°	1813	2719	4532	10927	14552
75°	1198	2396	4791	12044	16835
80°	1785	3570	5356	12497	17951
85°	0	3557	7114	14227	17784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 674611 cd/sqm

TEST NUMBER: P1307396

CATALOG NUMBER: P3SQAS24R559027D010 E3SQCA301MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	5.3
10°-20°	314.3	15.1
20°-30°	482.1	23.2
30°-40°	561.8	27.0
40°-50°	448.9	21.6
50°-60°	132.9	6.4
60°-70°	14.2	0.7
70°-80°	11.1	0.5
80°-90°	4.7	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°	906.2	43.6
0°-40°	1468.0	70.6
0°-60°	2049.9	98.6
0°-90°	2080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1247	1247	1247	1247	1247	
5°	1915	1744	1200	616	405	191
15°	2763	2257	716	42	32	763
25°	2708	2580	139	24	27	1286
35°	3106	2184	24	24	29	1934
45°	2770	867	11	25	32	1997
55°	631	5	11	27	34	668
65°	5	5	11	24	31	5
75°	2	4	7	18	25	3
85°	0	2	4	7	9	1
90°	0	0	0	0	0	

TEST NUMBER: P1307396

CATALOG NUMBER: P3SQAS24R559027D010 E3SQCA301MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7
2.5°	1626.1	1626.1	1620.7	1622.5	1618.9	1599.0	1595.4	1570.1	1548.4	1524.9	1505.1
5°	1915.2	1918.8	1913.4	1902.5	1888.1	1873.6	1842.9	1819.4	1788.7	1743.5	1702.0
7.5°	2079.6	2076.0	2067.0	2063.3	2054.3	2038.1	2016.4	1991.1	1954.9	1909.8	1861.0
10°	2274.7	2244.0	2235.0	2220.5	2191.6	2159.1	2121.2	2086.8	2056.1	2014.6	1962.2
12.5°	2589.1	2583.7	2547.6	2520.5	2480.7	2408.4	2343.4	2267.5	2177.2	2104.9	2036.2
15°	2762.6	2766.2	2749.9	2728.2	2702.9	2643.3	2578.3	2489.7	2383.1	2256.7	2144.7
17.5°	2793.3	2798.7	2789.7	2780.6	2773.4	2739.1	2699.3	2636.1	2538.5	2421.1	2254.9
20°	2768.0	2778.8	2780.6	2791.5	2805.9	2791.5	2759.0	2715.6	2634.3	2511.4	2352.4
22.5°	2712.0	2731.9	2746.3	2784.3	2822.2	2822.2	2802.3	2768.0	2688.5	2567.4	2404.8
25°	2708.4	2712.0	2717.4	2778.8	2838.5	2851.1	2833.0	2796.9	2710.2	2580.1	2403.0
27.5°	2798.7	2775.2	2739.1	2800.5	2871.0	2881.8	2856.5	2807.7	2704.8	2551.2	2341.6
30°	2983.0	2930.6	2854.7	2899.9	2948.7	2936.0	2885.4	2807.7	2668.6	2477.1	2226.0
32.5°	3053.5	3024.6	2997.5	3046.2	3055.3	3002.9	2912.5	2796.9	2610.8	2372.3	2036.2
35°	3105.9	3107.7	3096.8	3105.9	3062.5	2988.4	2889.0	2737.3	2502.4	2184.4	1785.1
37.5°	3123.9	3127.5	3104.1	3071.5	3006.5	2921.6	2802.3	2628.9	2321.7	1926.0	1405.7
40°	3067.9	3057.1	3019.1	2974.0	2903.5	2816.8	2686.7	2428.3	2052.5	1537.6	1096.7
42.5°	2968.5	2950.5	2905.3	2851.1	2777.0	2666.8	2459.0	2146.5	1667.7	1199.7	767.9
45°	2769.8	2757.2	2701.1	2661.4	2572.9	2430.1	2162.7	1768.8	1290.0	867.3	444.5
47.5°	2151.9	2153.7	2197.0	2216.9	2186.2	2072.4	1758.0	1344.2	941.3	516.7	150.0
50°	1926.0	1917.0	1873.6	1814.0	1714.6	1544.8	1290.0	950.4	556.5	168.0	21.7
52.5°	1461.7	1461.7	1440.0	1409.3	1304.5	1140.1	872.7	525.8	195.1	28.9	5.4
55°	630.6	598.0	616.1	650.4	623.3	542.0	408.3	157.2	34.3	5.4	5.4
57.5°	9.0	21.7	32.5	52.4	70.5	84.9	45.2	16.3	5.4	5.4	5.4
60°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
62.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
65°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
67.5°	3.6	3.6	3.6	5.4	3.6	5.4	5.4	5.4	5.4	5.4	5.4
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.4	5.4
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	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	1.8	3.6	3.6	3.6
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6
85°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
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

TEST NUMBER: P1307396

CATALOG NUMBER: P3SQAS24R559027D010 E3SQCA301MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7
2.5°	1476.1	1445.4	1394.8	1241.3	1082.3	935.9	831.1	791.4
5°	1655.0	1599.0	1514.1	1199.7	883.5	616.1	464.3	404.7
7.5°	1795.9	1723.7	1600.8	1127.4	648.6	328.8	196.9	155.4
10°	1889.9	1810.4	1649.6	1020.8	430.0	153.6	74.1	61.4
12.5°	1958.6	1859.2	1667.7	883.5	252.9	70.5	39.7	36.1
15°	2009.1	1880.9	1646.0	715.5	139.1	41.6	32.5	32.5
17.5°	2079.6	1891.7	1593.6	527.6	79.5	30.7	30.7	30.7
20°	2133.8	1891.7	1494.2	359.5	48.8	27.1	27.1	27.1
22.5°	2160.9	1862.8	1373.2	227.7	34.3	25.3	27.1	27.1
25°	2133.8	1792.3	1217.8	139.1	27.1	23.5	25.3	27.1
27.5°	2034.4	1651.4	1010.0	88.5	21.7	23.5	25.3	27.1
30°	1868.2	1447.2	775.1	57.8	19.9	23.5	25.3	27.1
32.5°	1633.3	1143.7	502.3	37.9	18.1	23.5	25.3	27.1
35°	1275.6	809.4	303.5	23.5	18.1	23.5	27.1	28.9
37.5°	955.8	540.2	164.4	14.5	18.1	23.5	27.1	28.9
40°	663.1	314.4	70.5	12.6	18.1	25.3	28.9	28.9
42.5°	384.8	124.7	18.1	10.8	18.1	25.3	28.9	30.7
45°	140.9	25.3	5.4	10.8	19.9	25.3	28.9	32.5
47.5°	19.9	5.4	5.4	10.8	19.9	25.3	30.7	32.5
50°	5.4	5.4	5.4	10.8	19.9	27.1	32.5	34.3
52.5°	5.4	5.4	5.4	10.8	19.9	27.1	32.5	34.3
55°	5.4	5.4	5.4	10.8	19.9	27.1	32.5	34.3
57.5°	5.4	5.4	5.4	10.8	19.9	27.1	32.5	34.3
60°	5.4	5.4	5.4	10.8	18.1	27.1	32.5	34.3
62.5°	5.4	5.4	5.4	10.8	18.1	25.3	30.7	32.5
65°	5.4	5.4	5.4	10.8	16.3	23.5	30.7	30.7
67.5°	5.4	5.4	5.4	9.0	16.3	23.5	28.9	30.7
70°	5.4	5.4	5.4	9.0	14.5	21.7	27.1	28.9
72.5°	5.4	5.4	5.4	7.2	12.6	19.9	25.3	27.1
75°	3.6	5.4	5.4	7.2	12.6	18.1	23.5	25.3
77.5°	3.6	5.4	5.4	5.4	10.8	14.5	19.9	21.7
80°	3.6	3.6	5.4	5.4	9.0	12.6	16.3	18.1
82.5°	3.6	3.6	3.6	5.4	7.2	9.0	12.6	12.6
85°	3.6	3.6	3.6	3.6	5.4	7.2	9.0	9.0
87.5°	1.8	1.8	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)