

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: P1311681

Luminaire Tested: P3SQAS20R559050D010 E3SQCA301MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311681  
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: P3SQAS20R559050D010 E3SQCA301MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , E3SQCA301MW TRIM  
Light Source: -  
Ballast/Driver: -

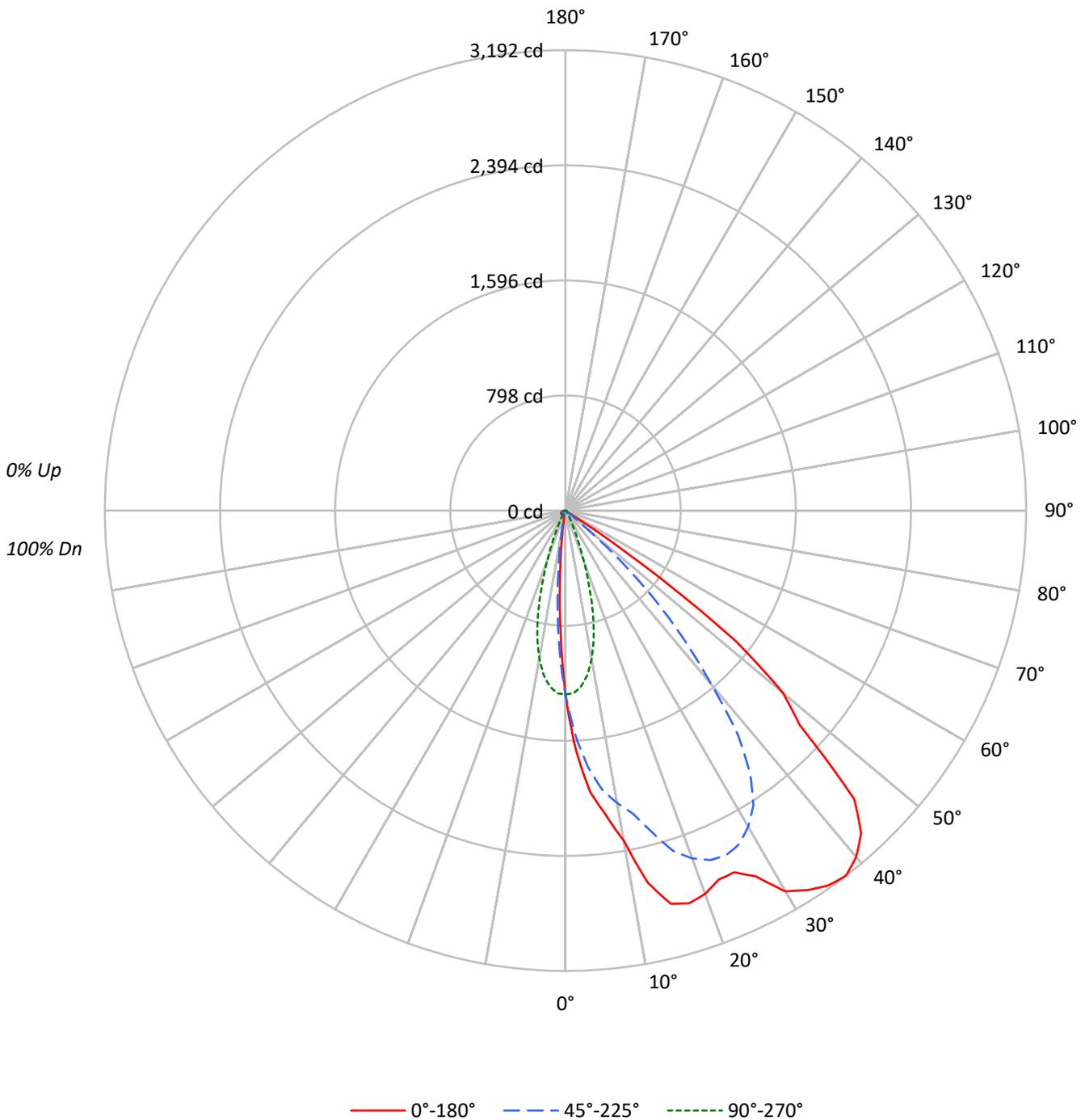
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2125.0 lumens  
Efficiency: N/A  
Efficacy: 73.8 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

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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	219360	219360	219360	219360	219360
5°	338258	307952	211900	108811	71486
10°	406420	359919	182382	27439	10982
15°	503210	411066	130336	7578	5919
20°	518285	470248	67317	5077	5077
25°	525804	500891	27003	4561	5264
30°	606043	503269	11753	4773	5509
35°	667128	469204	5046	5046	6202
40°	704655	353148	2900	5800	6632
45°	689201	215794	2704	6284	8086
50°	527208	46004	2974	7422	9404
55°	193428	1651	3333	8317	10539
60°	1894	1894	3823	9541	12090
65°	2241	2241	4523	9780	12796
70°	1863	2769	4633	11179	14855
75°	1198	2462	4924	12310	17168
80°	1785	3670	5455	12794	18348
85°	0	3557	7311	14623	18180

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 689201 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.1	5.3
10°-20°	321.1	15.1
20°-30°	492.6	23.2
30°-40°	574.0	27.0
40°-50°	458.7	21.6
50°-60°	135.8	6.4
60°-70°	14.5	0.7
70°-80°	11.4	0.5
80°-90°	4.8	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°	925.8	43.6
0°-40°	1499.8	70.6
0°-60°	2094.2	98.6
0°-90°	2125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2125.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1274	1274	1274	1274	1274	
5°	1957	1781	1226	629	414	195
15°	2822	2306	731	42	33	779
25°	2767	2636	142	24	28	1314
35°	3173	2232	24	24	30	1976
45°	2830	886	11	26	33	2040
55°	644	6	11	28	35	682
65°	6	6	11	24	31	5
75°	2	4	7	18	26	3
85°	0	2	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°	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7
2.5°	1661.3	1661.3	1655.7	1657.6	1653.9	1633.6	1629.9	1604.1	1581.9	1557.9	1537.6
5°	1956.6	1960.3	1954.8	1943.7	1928.9	1914.2	1882.8	1858.8	1827.4	1781.3	1738.8
7.5°	2124.6	2120.9	2111.7	2108.0	2098.8	2082.1	2060.0	2034.2	1997.2	1951.1	1901.2
10°	2324.0	2292.6	2283.3	2268.6	2239.0	2205.8	2167.1	2132.0	2100.6	2058.1	2004.6
12.5°	2645.1	2639.6	2602.7	2575.0	2534.4	2460.5	2394.1	2316.6	2224.3	2150.4	2080.3
15°	2822.3	2826.0	2809.4	2787.3	2761.4	2700.5	2634.1	2543.6	2434.7	2305.5	2191.1
17.5°	2853.7	2859.3	2850.0	2840.8	2833.4	2798.3	2757.7	2693.1	2593.5	2473.5	2303.6
20°	2827.9	2839.0	2840.8	2851.9	2866.6	2851.9	2818.6	2774.3	2691.3	2565.8	2403.3
22.5°	2770.7	2791.0	2805.7	2844.5	2883.3	2883.3	2862.9	2827.9	2746.7	2623.0	2456.9
25°	2767.0	2770.7	2776.2	2839.0	2899.9	2912.8	2894.3	2857.4	2768.8	2635.9	2455.0
27.5°	2859.3	2835.3	2798.3	2861.1	2933.1	2944.2	2918.3	2868.5	2763.3	2606.4	2392.3
30°	3047.5	2994.0	2916.5	2962.6	3012.5	2999.5	2947.9	2868.5	2726.4	2530.7	2274.1
32.5°	3119.5	3090.0	3062.3	3112.1	3121.4	3067.8	2975.5	2857.4	2667.3	2423.6	2080.3
35°	3173.1	3174.9	3163.8	3173.1	3128.8	3053.1	2951.5	2796.5	2556.5	2231.7	1823.7
37.5°	3191.5	3195.2	3171.2	3138.0	3071.5	2984.8	2862.9	2685.7	2371.9	1967.7	1436.1
40°	3134.3	3123.2	3084.5	3038.3	2966.3	2877.7	2744.8	2480.9	2096.9	1570.8	1120.4
42.5°	3032.8	3014.3	2968.2	2912.8	2837.1	2724.5	2512.2	2192.9	1703.7	1225.7	784.5
45°	2829.7	2816.8	2759.6	2719.0	2628.5	2482.7	2209.5	1807.1	1318.0	886.0	454.1
47.5°	2198.4	2200.3	2244.6	2264.9	2233.5	2117.2	1796.0	1373.3	961.7	527.9	153.2
50°	1967.7	1958.5	1914.2	1853.3	1751.7	1578.2	1318.0	970.9	568.5	171.7	22.2
52.5°	1493.3	1493.3	1471.2	1439.8	1332.7	1164.7	891.6	537.1	199.4	29.5	5.5
55°	644.2	611.0	629.4	664.5	636.8	553.8	417.2	160.6	35.1	5.5	5.5
57.5°	9.2	22.2	33.2	53.5	72.0	86.8	46.1	16.6	5.5	5.5	5.5
60°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
62.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
67.5°	3.7	3.7	3.7	5.5	3.7	5.5	5.5	5.5	5.5	5.5	5.5
70°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7	1273.7
2.5°	1508.1	1476.7	1425.0	1268.1	1105.7	956.2	849.1	808.5
5°	1690.8	1633.6	1546.8	1225.7	902.6	629.4	474.4	413.5
7.5°	1834.8	1761.0	1635.4	1151.8	662.7	335.9	201.2	158.7
10°	1930.8	1849.6	1685.3	1042.9	439.3	156.9	75.7	62.8
12.5°	2000.9	1899.4	1703.7	902.6	258.4	72.0	40.6	36.9
15°	2052.6	1921.6	1681.6	731.0	142.1	42.5	33.2	33.2
17.5°	2124.6	1932.6	1628.1	539.0	81.2	31.4	31.4	31.4
20°	2180.0	1932.6	1526.5	367.3	49.8	27.7	27.7	27.7
22.5°	2207.7	1903.1	1402.9	232.6	35.1	25.8	27.7	27.7
25°	2180.0	1831.1	1244.1	142.1	27.7	24.0	25.8	27.7
27.5°	2078.5	1687.1	1031.8	90.4	22.2	24.0	25.8	27.7
30°	1908.6	1478.5	791.9	59.1	20.3	24.0	25.8	27.7
32.5°	1668.7	1168.4	513.2	38.8	18.5	24.0	25.8	27.7
35°	1303.2	827.0	310.1	24.0	18.5	24.0	27.7	29.5
37.5°	976.5	551.9	168.0	14.8	18.5	24.0	27.7	29.5
40°	677.4	321.2	72.0	12.9	18.5	25.8	29.5	29.5
42.5°	393.2	127.4	18.5	11.1	18.5	25.8	29.5	31.4
45°	144.0	25.8	5.5	11.1	20.3	25.8	29.5	33.2
47.5°	20.3	5.5	5.5	11.1	20.3	25.8	31.4	33.2
50°	5.5	5.5	5.5	11.1	20.3	27.7	33.2	35.1
52.5°	5.5	5.5	5.5	11.1	20.3	27.7	33.2	35.1
55°	5.5	5.5	5.5	11.1	20.3	27.7	33.2	35.1
57.5°	5.5	5.5	5.5	11.1	20.3	27.7	33.2	35.1
60°	5.5	5.5	5.5	11.1	18.5	27.7	33.2	35.1
62.5°	5.5	5.5	5.5	11.1	18.5	25.8	31.4	33.2
65°	5.5	5.5	5.5	11.1	16.6	24.0	31.4	31.4
67.5°	5.5	5.5	5.5	9.2	16.6	24.0	29.5	31.4
70°	5.5	5.5	5.5	9.2	14.8	22.2	27.7	29.5
72.5°	5.5	5.5	5.5	7.4	12.9	20.3	25.8	27.7
75°	3.7	5.5	5.5	7.4	12.9	18.5	24.0	25.8
77.5°	3.7	5.5	5.5	5.5	11.1	14.8	20.3	22.2
80°	3.7	3.7	5.5	5.5	9.2	12.9	16.6	18.5
82.5°	3.7	3.7	3.7	5.5	7.4	9.2	12.9	12.9
85°	3.7	3.7	3.7	3.7	5.5	7.4	9.2	9.2
87.5°	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)