

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: P1311679

Luminaire Tested: P3SQAS20R559050D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R559050D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

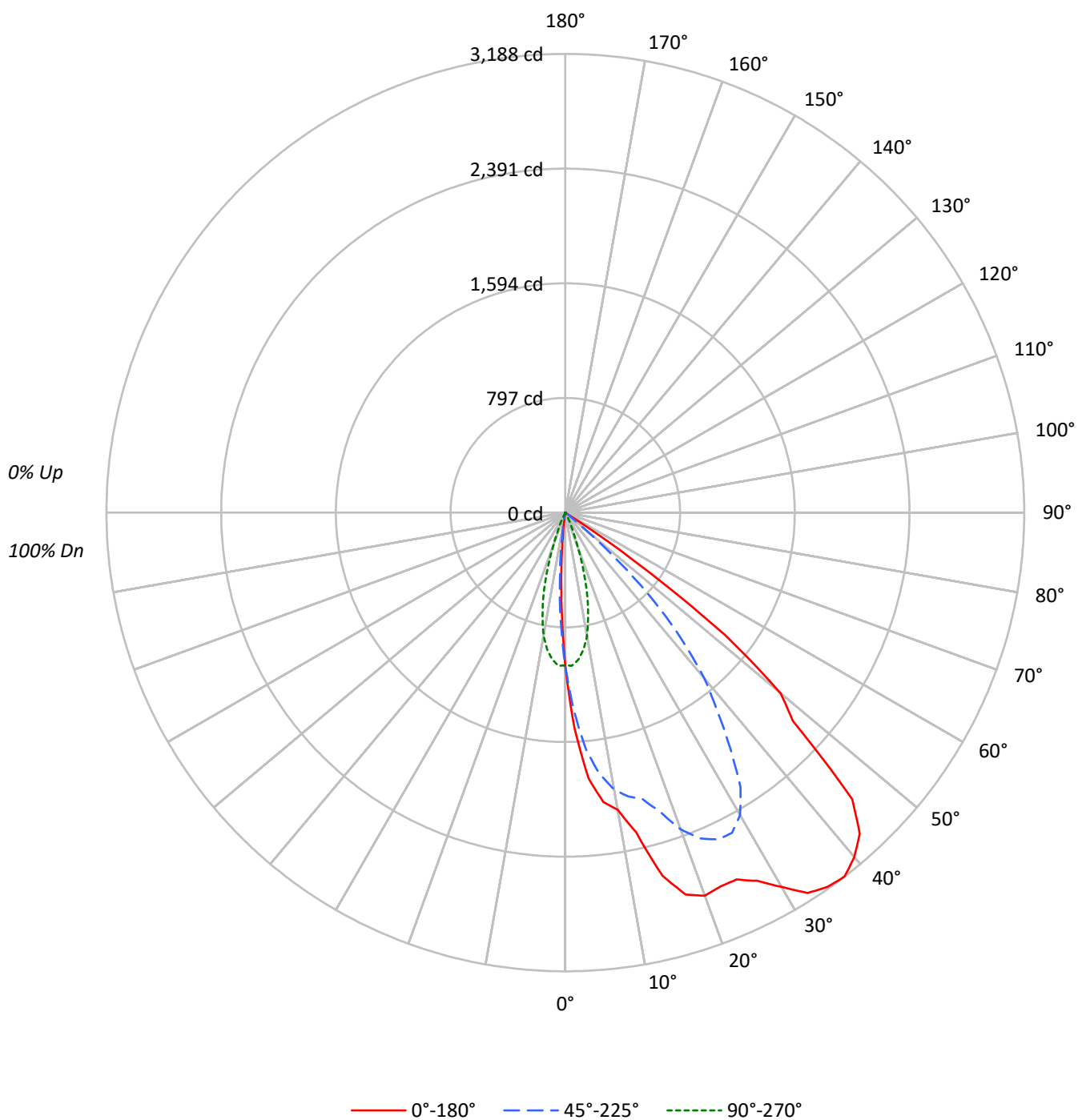
Lumens per Lamp: N/A
Luminaire Lumens: 1963.9 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	84	84	82
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	75	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	68	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	61	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	55	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	50	50	48
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	45	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	41	41	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	182780	182780	182780	182780	182780
5°	320365	285581	177410	73699	42442
10°	366670	341819	151708	8062	2903
15°	465982	366919	103983	1640	981
20°	519238	429268	45672	0	0
25°	534507	476283	12979	0	0
30°	597173	482667	1830	0	0
35°	667444	419081	0	0	0
40°	702093	337343	0	0	0
45°	686424	213066	0	0	0
50°	522706	43512	0	0	0
55°	171239	0	0	0	0
60°	0	0	0	0	0
65°	0	734	734	0	0
70°	0	906	906	0	0
75°	0	1198	1198	0	0
80°	0	1785	3670	1785	0
85°	0	3557	3557	3557	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 686424 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	4.9
10°-20°	284.2	14.5
20°-30°	462.1	23.5
30°-40°	549.2	28.0
40°-50°	449.1	22.9
50°-60°	119.0	6.1
60°-70°	0.7	0.0
70°-80°	1.2	0.1
80°-90°	1.4	0.1
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°	843.3	42.9
0°-40°	1392.5	70.9
0°-60°	1960.6	99.8
0°-90°	1963.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1963.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1061	1061	1061	1061	1061	
5°	1853	1652	1026	426	246	182
15°	2614	2058	583	9	6	731
25°	2813	2506	68	0	0	1325
35°	3175	1993	0	0	0	1974
45°	2818	875	0	0	0	2023
55°	570	0	0	0	0	641
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	2	2	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1506.1	1495.0	1496.8	1491.3	1496.8	1472.8	1447.0	1423.0	1404.6	1378.7	1221.8
5°	1853.1	1834.6	1829.1	1821.7	1814.3	1784.8	1760.8	1731.2	1696.2	1651.9	1363.9
7.5°	2028.4	2013.6	2006.2	2009.9	1993.3	1982.2	1950.9	1917.7	1880.7	1832.8	1471.0
10°	2096.7	2081.9	2080.1	2078.2	2076.4	2069.0	2054.2	2024.7	1991.5	1954.6	1531.9
12.5°	2275.7	2242.5	2220.3	2194.5	2163.1	2122.5	2089.3	2063.5	2050.5	2021.0	1559.6
15°	2613.5	2582.1	2558.1	2524.9	2465.8	2379.1	2299.7	2198.2	2109.6	2057.9	1548.5
17.5°	2783.3	2768.5	2748.2	2726.1	2685.4	2622.7	2541.5	2434.4	2321.9	2176.0	1495.0
20°	2833.1	2825.7	2811.0	2801.7	2774.0	2729.7	2674.4	2591.3	2486.1	2342.2	1411.9
22.5°	2812.8	2818.3	2825.7	2849.7	2853.4	2822.0	2770.4	2691.0	2583.9	2451.0	1284.6
25°	2812.8	2809.1	2809.1	2858.9	2890.3	2875.6	2838.6	2766.7	2657.8	2506.4	1127.7
27.5°	2884.8	2862.6	2816.5	2868.2	2919.8	2914.3	2881.1	2796.2	2674.4	2508.3	935.8
30°	3002.9	2954.9	2879.2	2927.2	2975.2	2954.9	2901.4	2792.5	2637.5	2427.1	701.4
32.5°	3133.9	3111.8	3073.0	3104.4	3097.0	3015.8	2919.8	2768.5	2561.8	2264.6	472.5
35°	3174.6	3178.2	3152.4	3146.9	3104.4	3021.4	2919.8	2700.2	2403.1	1993.3	280.5
37.5°	3187.5	3189.3	3148.7	3097.0	3034.3	2936.5	2814.6	2559.9	2109.6	1731.2	149.5
40°	3122.9	3121.0	3054.6	2991.8	2921.7	2825.7	2648.5	2264.6	1830.9	1500.5	53.5
42.5°	3026.9	3002.9	2940.2	2862.6	2777.7	2657.8	2380.9	1912.1	1591.0	1201.5	3.7
45°	2818.3	2796.2	2746.4	2663.3	2569.2	2399.4	1961.9	1642.6	1293.8	874.8	0.0
47.5°	2142.8	2131.7	2183.4	2194.5	2192.7	1998.9	1637.1	1340.0	950.5	509.4	0.0
50°	1950.9	1936.1	1884.4	1818.0	1699.9	1537.4	1312.3	993.0	557.4	162.4	0.0
52.5°	1400.9	1448.9	1459.9	1410.1	1299.4	1138.8	904.4	572.2	193.8	0.0	0.0
55°	570.3	540.8	562.9	590.6	612.8	562.9	417.1	203.0	1.8	0.0	0.0
57.5°	0.0	1.8	11.1	25.8	42.5	53.5	57.2	3.7	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.8	1.8	1.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	3.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	3.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	90°	112.5°	135°	157.5°	180°
0°	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1065.0	900.7	742.0	655.2	612.8
5°	1026.2	688.4	426.3	295.3	245.5
7.5°	961.6	472.5	169.8	70.1	49.8
10°	867.5	271.3	46.1	18.5	16.6
12.5°	732.7	123.7	16.6	12.9	12.9
15°	583.2	42.5	9.2	7.4	5.5
17.5°	409.7	11.1	3.7	0.0	0.0
20°	249.2	1.8	0.0	0.0	0.0
22.5°	138.4	0.0	0.0	0.0	0.0
25°	68.3	0.0	0.0	0.0	0.0
27.5°	29.5	0.0	0.0	0.0	0.0
30°	9.2	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	1.8	0.0	0.0	0.0	0.0
65°	1.8	1.8	0.0	0.0	0.0
67.5°	1.8	1.8	0.0	0.0	0.0
70°	1.8	1.8	0.0	0.0	0.0
72.5°	1.8	1.8	0.0	0.0	0.0
75°	1.8	1.8	0.0	0.0	0.0
77.5°	3.7	1.8	1.8	0.0	0.0
80°	3.7	1.8	1.8	0.0	0.0
82.5°	3.7	1.8	1.8	0.0	0.0
85°	1.8	1.8	1.8	0.0	0.0
87.5°	3.7	1.8	1.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)