

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: P1309484

Luminaire Tested: P3SQAS20R559035D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309484
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: P3SQAS20R559035D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

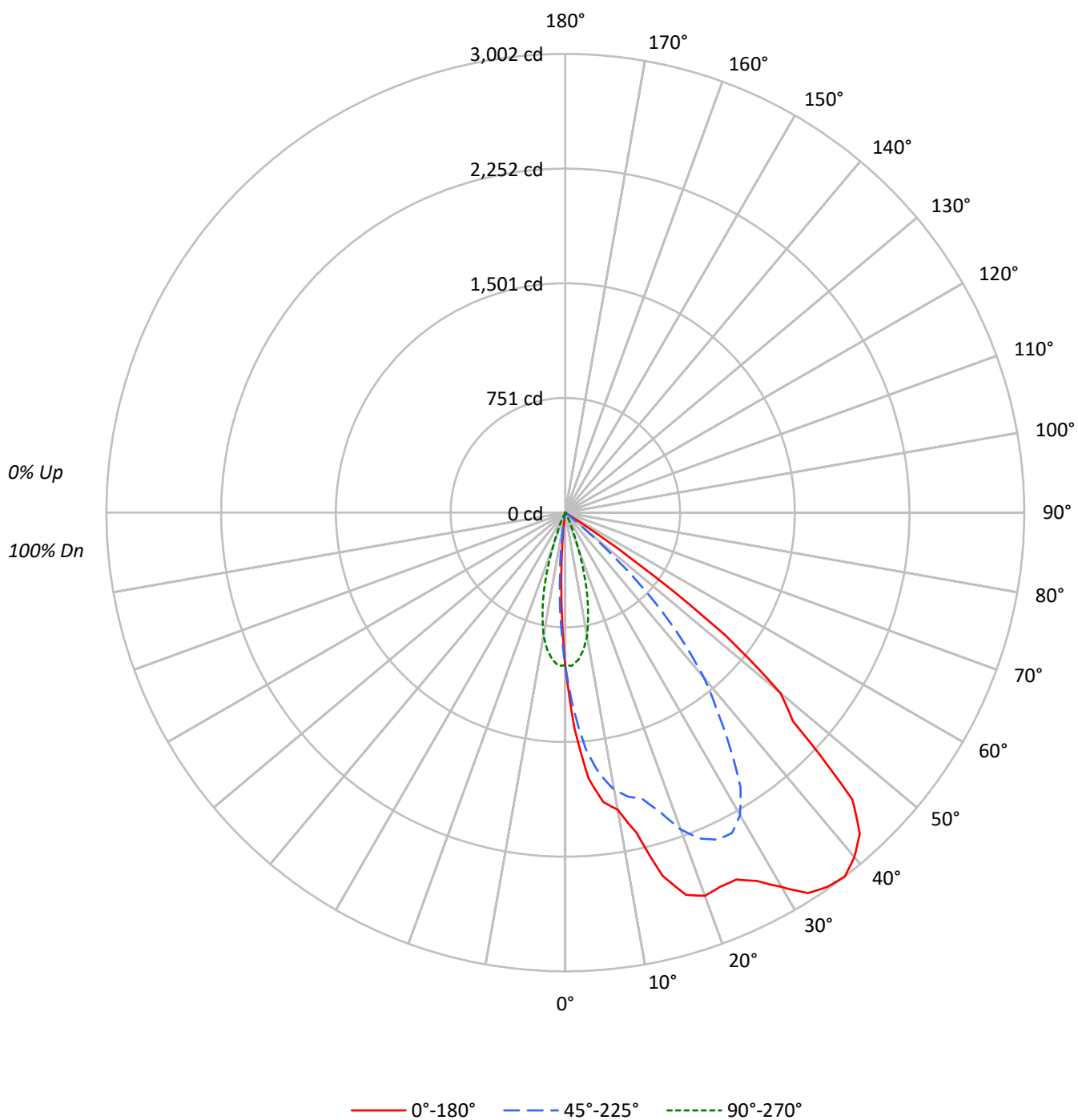
Lumens per Lamp: N/A
Luminaire Lumens: 1849.9 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	172171	172171	172171	172171	172171
5°	301763	269002	167106	69429	39970
10°	345387	321971	142894	7607	2728
15°	438934	345631	97957	1551	927
20°	489107	404342	43015	0	0
25°	503476	448634	12219	0	0
30°	562511	454646	1730	0	0
35°	628696	394756	0	0	0
40°	661333	317762	0	0	0
45°	646578	200717	0	0	0
50°	492350	40993	0	0	0
55°	161300	0	0	0	0
60°	0	0	0	0	0
65°	0	693	693	0	0
70°	0	856	856	0	0
75°	0	1131	1131	0	0
80°	0	1686	3471	1686	0
85°	0	3359	3359	3359	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 646578 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	4.9
10°-20°	267.7	14.5
20°-30°	435.3	23.5
30°-40°	517.3	28.0
40°-50°	423.0	22.9
50°-60°	112.1	6.1
60°-70°	0.7	0.0
70°-80°	1.1	0.1
80°-90°	1.3	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°	794.3	42.9
0°-40°	1311.7	70.9
0°-60°	1846.8	99.8
0°-90°	1849.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1849.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1000	1000	1000	1000	1000	
5°	1746	1556	967	402	231	171
15°	2462	1938	549	9	5	688
25°	2650	2361	64	0	0	1248
35°	2990	1878	0	0	0	1859
45°	2655	824	0	0	0	1905
55°	537	0	0	0	0	604
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°	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7	999.7
2.5°	1418.6	1408.2	1410.0	1404.7	1410.0	1387.4	1363.0	1340.4	1323.0	1298.7	1150.9
5°	1745.5	1728.1	1722.9	1715.9	1709.0	1681.2	1658.6	1630.7	1597.7	1556.0	1284.8
7.5°	1910.7	1896.7	1889.8	1893.3	1877.6	1867.2	1837.6	1806.3	1771.6	1726.4	1385.6
10°	1975.0	1961.1	1959.3	1957.6	1955.9	1948.9	1935.0	1907.2	1875.9	1841.1	1443.0
12.5°	2143.6	2112.3	2091.5	2067.1	2037.6	1999.3	1968.0	1943.7	1931.5	1903.7	1469.1
15°	2461.8	2432.2	2409.6	2378.3	2322.7	2241.0	2166.2	2070.6	1987.1	1938.5	1458.6
17.5°	2621.7	2607.8	2588.7	2567.8	2529.6	2470.5	2394.0	2293.1	2187.1	2049.7	1408.2
20°	2668.7	2661.7	2647.8	2639.1	2613.0	2571.3	2519.1	2440.9	2341.8	2206.2	1330.0
22.5°	2649.5	2654.7	2661.7	2684.3	2687.8	2658.2	2609.5	2534.8	2434.0	2308.8	1210.0
25°	2649.5	2646.1	2646.1	2693.0	2722.6	2708.6	2673.9	2606.1	2503.5	2360.9	1062.2
27.5°	2717.3	2696.5	2653.0	2701.7	2750.4	2745.2	2713.9	2633.9	2519.1	2362.7	881.4
30°	2828.6	2783.4	2712.1	2757.3	2802.5	2783.4	2733.0	2630.4	2484.4	2286.2	660.6
32.5°	2952.0	2931.2	2894.7	2924.2	2917.3	2840.8	2750.4	2607.8	2413.1	2133.2	445.1
35°	2990.3	2993.8	2969.4	2964.2	2924.2	2846.0	2750.4	2543.5	2263.6	1877.6	264.3
37.5°	3002.5	3004.2	2965.9	2917.3	2858.2	2766.0	2651.3	2411.4	1987.1	1630.7	140.8
40°	2941.6	2939.9	2877.3	2818.2	2752.1	2661.7	2494.8	2133.2	1724.6	1413.4	50.4
42.5°	2851.2	2828.6	2769.5	2696.5	2616.5	2503.5	2242.7	1801.1	1498.6	1131.8	3.5
45°	2654.7	2633.9	2586.9	2508.7	2420.0	2260.1	1848.1	1547.3	1218.7	824.1	0.0
47.5°	2018.4	2008.0	2056.7	2067.1	2065.4	1882.8	1542.1	1262.2	895.3	479.8	0.0
50°	1837.6	1823.7	1775.0	1712.5	1601.2	1448.2	1236.1	935.3	525.0	153.0	0.0
52.5°	1319.6	1364.8	1375.2	1328.2	1223.9	1072.7	851.9	538.9	182.5	0.0	0.0
55°	537.2	509.4	530.3	556.3	577.2	530.3	392.9	191.2	1.7	0.0	0.0
57.5°	0.0	1.7	10.4	24.3	40.0	50.4	53.9	3.5	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	1.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	1.7	1.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	3.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
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°	999.7	999.7	999.7	999.7	999.7
2.5°	1003.1	848.4	698.9	617.2	577.2
5°	966.6	648.5	401.6	278.2	231.2
7.5°	905.8	445.1	159.9	66.1	46.9
10°	817.1	255.6	43.5	17.4	15.6
12.5°	690.2	116.5	15.6	12.2	12.2
15°	549.4	40.0	8.7	7.0	5.2
17.5°	386.0	10.4	3.5	0.0	0.0
20°	234.7	1.7	0.0	0.0	0.0
22.5°	130.4	0.0	0.0	0.0	0.0
25°	64.3	0.0	0.0	0.0	0.0
27.5°	27.8	0.0	0.0	0.0	0.0
30°	8.7	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°	1.7	0.0	0.0	0.0	0.0
65°	1.7	1.7	0.0	0.0	0.0
67.5°	1.7	1.7	0.0	0.0	0.0
70°	1.7	1.7	0.0	0.0	0.0
72.5°	1.7	1.7	0.0	0.0	0.0
75°	1.7	1.7	0.0	0.0	0.0
77.5°	3.5	1.7	1.7	0.0	0.0
80°	3.5	1.7	1.7	0.0	0.0
82.5°	3.5	1.7	1.7	0.0	0.0
85°	1.7	1.7	1.7	0.0	0.0
87.5°	3.5	1.7	1.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)