

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: P1307230

Luminaire Tested: P3SQAS20R459027D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R459027D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

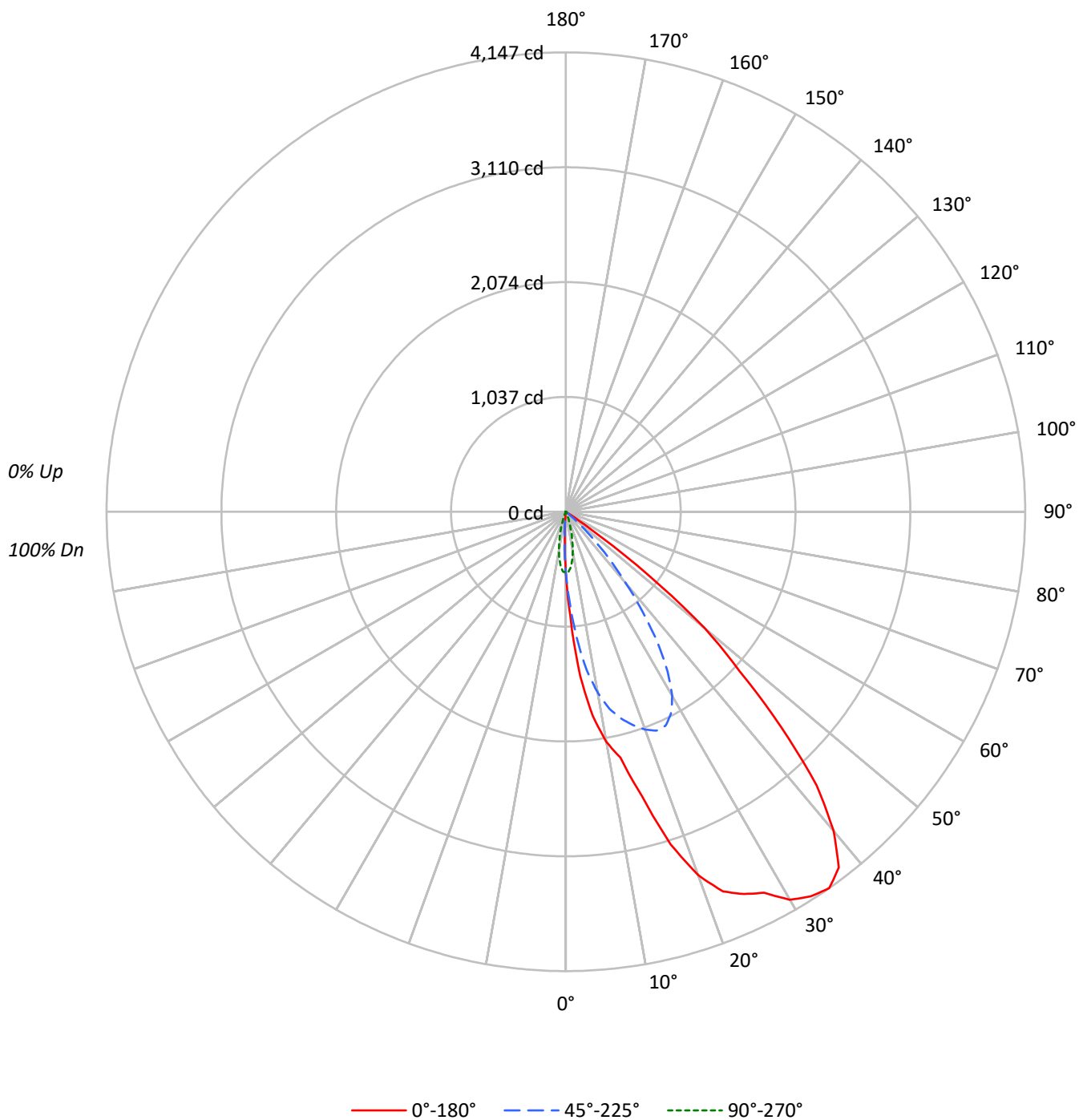
Lumens per Lamp: N/A
Luminaire Lumens: 1758.1 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	98	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	94034	94034	94034	94034	94034
5°	256710	197516	87028	17461	6552
10°	368681	289758	62922	1661	1382
15°	474647	344668	33484	571	0
20°	639723	383486	12719	0	0
25°	723565	405118	3306	0	0
30°	804292	381901	318	0	0
35°	871886	304561	0	0	0
40°	845056	191210	0	0	0
45°	669911	91091	0	0	0
50°	438442	11414	0	0	0
55°	75335	0	0	0	0
60°	0	0	551	0	0
65°	0	652	652	0	0
70°	0	806	1611	0	0
75°	0	1065	2129	0	0
80°	0	1587	3174	1587	0
85°	0	3162	6323	3162	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 669911 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	3.7
10°-20°	250.5	14.2
20°-30°	468.8	26.7
30°-40°	547.2	31.1
40°-50°	356.9	20.3
50°-60°	66.3	3.8
60°-70°	0.6	0.0
70°-80°	1.3	0.1
80°-90°	1.5	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°	784.3	44.6
0°-40°	1331.5	75.7
0°-60°	1754.6	99.8
0°-90°	1758.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1758.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	546	546	546	546	546	
5°	1485	1142	503	101	38	159
15°	2662	1933	188	3	0	793
25°	3808	2132	17	0	0	1761
35°	4147	1449	0	0	0	2544
45°	2750	374	0	0	0	2091
55°	251	0	0	0	0	436
65°	0	2	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	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°	50°
0°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	962.6	970.5	954.7	948.4	927.9	932.6	897.9	883.7	861.6	825.3	807.9
5°	1484.9	1470.7	1458.1	1431.2	1415.5	1372.9	1325.5	1271.9	1207.2	1142.5	1068.3
7.5°	1857.3	1846.3	1841.5	1819.4	1787.9	1743.7	1682.1	1614.3	1530.7	1443.9	1331.8
10°	2108.2	2097.2	2078.2	2056.1	2030.9	1994.6	1934.6	1860.5	1768.9	1656.9	1525.9
12.5°	2272.3	2270.7	2239.2	2213.9	2182.4	2150.8	2089.3	2029.3	1939.4	1824.2	1675.8
15°	2662.1	2636.8	2595.8	2524.8	2436.4	2354.4	2255.0	2160.3	2062.4	1933.1	1767.4
17.5°	3148.1	3119.7	3050.3	2960.3	2818.3	2662.1	2491.7	2341.8	2195.0	2019.8	1824.2
20°	3490.5	3479.5	3421.1	3317.0	3165.5	2958.8	2734.7	2523.2	2316.5	2092.4	1851.0
22.5°	3709.9	3703.6	3679.9	3608.9	3454.2	3222.3	2933.5	2649.5	2400.1	2138.2	1843.1
25°	3807.7	3815.6	3818.8	3784.0	3659.4	3422.7	3080.3	2745.7	2447.5	2131.9	1783.1
27.5°	3877.1	3877.1	3889.8	3874.0	3747.8	3498.4	3137.1	2778.9	2431.7	2054.6	1656.9
30°	4044.4	4041.3	4049.1	4006.5	3831.4	3522.1	3111.8	2725.2	2341.8	1920.4	1475.4
32.5°	4117.0	4120.2	4118.6	4050.7	3847.2	3506.3	3050.3	2622.6	2176.1	1710.6	1235.6
35°	4147.0	4132.8	4074.4	3919.8	3662.5	3296.4	2876.7	2449.1	1944.1	1448.6	975.2
37.5°	4047.6	4006.5	3877.1	3665.7	3351.7	2999.8	2589.5	2138.2	1636.4	1136.2	733.8
40°	3758.8	3705.1	3542.6	3287.0	2999.8	2682.6	2250.2	1773.7	1279.8	850.5	514.4
42.5°	3350.1	3288.6	3113.4	2890.9	2628.9	2296.0	1865.2	1388.6	937.3	587.0	326.6
45°	2750.5	2715.7	2614.7	2427.0	2169.8	1824.2	1429.7	1013.1	648.6	374.0	167.3
47.5°	2127.1	2083.0	2010.4	1881.0	1666.4	1338.1	1000.5	688.0	416.6	184.6	34.7
50°	1636.4	1584.3	1495.9	1352.3	1128.3	893.1	648.6	429.2	211.5	42.6	1.6
52.5°	942.1	953.1	910.5	819.0	694.3	534.9	375.6	216.2	47.3	1.6	0.0
55°	250.9	271.4	265.1	285.6	250.9	211.5	156.2	41.0	3.2	0.0	0.0
57.5°	0.0	0.0	1.6	3.2	9.5	14.2	4.7	1.6	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	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
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°	546.0	546.0	546.0	546.0	546.0	546.0	546.0	546.0
2.5°	768.5	735.3	694.3	542.8	408.7	293.5	228.8	211.5
5°	997.3	916.8	812.7	503.4	252.5	101.0	45.8	37.9
7.5°	1213.5	1095.1	907.4	440.3	127.8	25.2	12.6	11.0
10°	1380.8	1221.4	976.8	359.8	47.3	9.5	7.9	7.9
12.5°	1495.9	1301.9	1002.0	273.0	17.4	4.7	4.7	3.2
15°	1562.2	1333.4	978.4	187.8	6.3	3.2	0.0	0.0
17.5°	1582.7	1320.8	915.2	118.4	1.6	0.0	0.0	0.0
20°	1565.4	1259.2	815.8	69.4	0.0	0.0	0.0	0.0
22.5°	1508.6	1163.0	695.9	37.9	0.0	0.0	0.0	0.0
25°	1402.8	1027.3	555.5	17.4	0.0	0.0	0.0	0.0
27.5°	1230.8	852.1	418.2	6.3	0.0	0.0	0.0	0.0
30°	1035.2	664.3	296.7	1.6	0.0	0.0	0.0	0.0
32.5°	807.9	489.2	190.9	0.0	0.0	0.0	0.0	0.0
35°	607.5	342.4	113.6	0.0	0.0	0.0	0.0	0.0
37.5°	422.9	216.2	60.0	0.0	0.0	0.0	0.0	0.0
40°	263.5	116.8	20.5	0.0	0.0	0.0	0.0	0.0
42.5°	146.8	41.0	1.6	0.0	0.0	0.0	0.0	0.0
45°	34.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	1.6	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
65°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
67.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
70°	1.6	1.6	1.6	3.2	1.6	0.0	0.0	0.0
72.5°	1.6	1.6	3.2	3.2	1.6	0.0	0.0	0.0
75°	1.6	1.6	3.2	3.2	1.6	0.0	0.0	0.0
77.5°	1.6	3.2	3.2	3.2	1.6	1.6	0.0	0.0
80°	1.6	3.2	3.2	3.2	3.2	1.6	0.0	0.0
82.5°	1.6	3.2	3.2	3.2	3.2	1.6	0.0	0.0
85°	1.6	3.2	3.2	3.2	1.6	1.6	0.0	0.0
87.5°	1.6	3.2	3.2	3.2	3.2	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)