

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: P1316789

Luminaire Tested: P3SQAS05R209830DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R209830DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

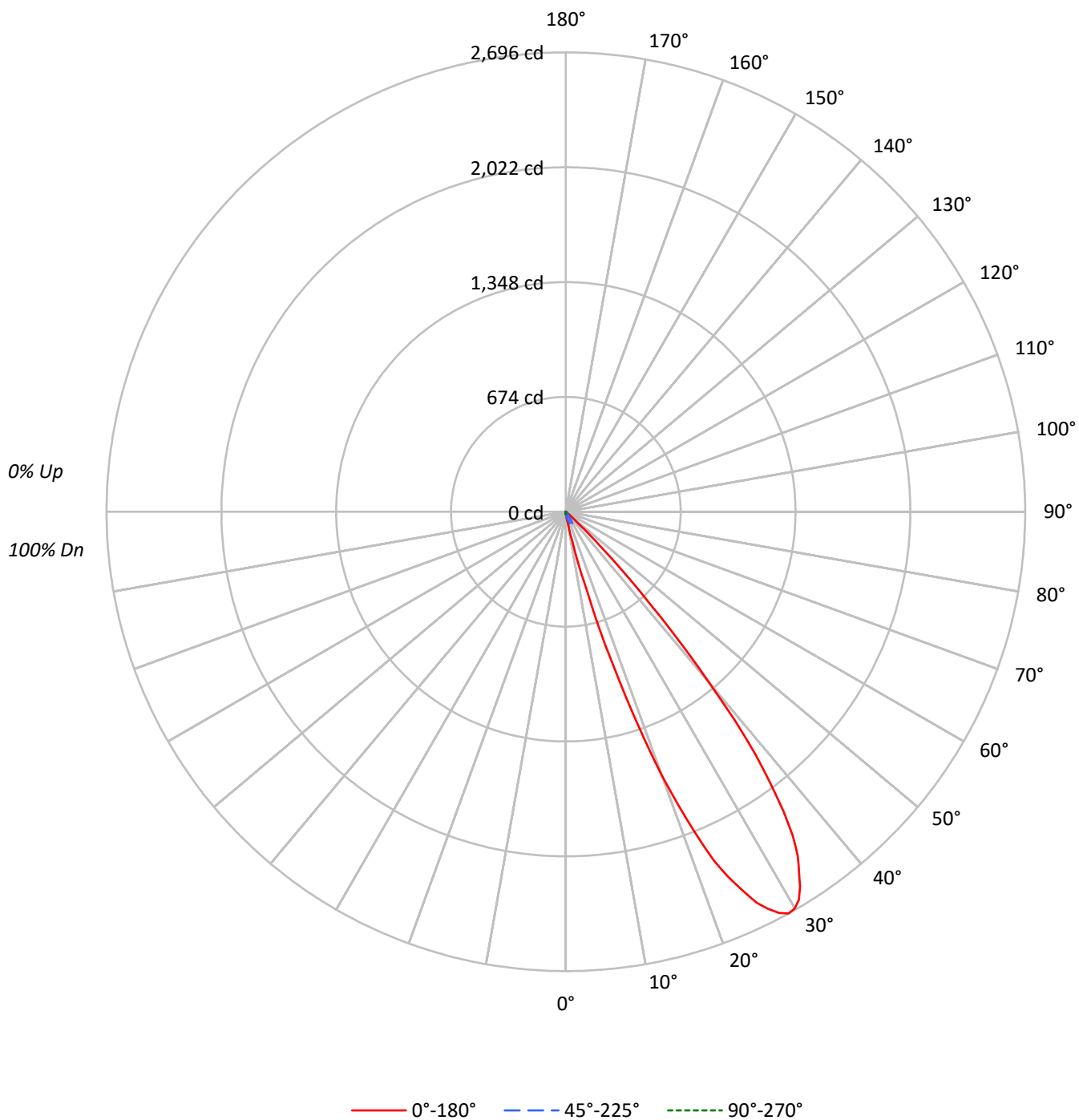
Lumens per Lamp: N/A
Luminaire Lumens: 372.0 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P1316789

CATALOG NUMBER: P3SQAS05R209830DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1316789

CATALOG NUMBER: P3SQAS05R209830DE010 E3SQCA301MMS

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	50		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2291	2291	2291	2291	2291
5°	4996	3509	2109	951	709
10°	12416	6208	1486	192	0
15°	87402	8505	856	0	0
20°	302075	14314	330	0	0
25°	465622	18281	133	0	0
30°	534431	14119	0	0	0
35°	488084	5361	0	0	0
40°	292604	2496	0	0	0
45°	71899	1169	0	0	0
50°	7931	295	0	0	0
55°	1111	0	120	0	0
60°	0	0	241	0	0
65°	0	0	285	0	0
70°	0	201	554	0	0
75°	0	266	732	0	0
80°	0	397	1091	0	0
85°	0	790	2174	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 76673 cd/sqm

TEST NUMBER: P1316789

CATALOG NUMBER: P3SQAS05R209830DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.4
10°-20°	29.1	7.8
20°-30°	147.0	39.5
30°-40°	159.0	42.7
40°-50°	33.6	9.0
50°-60°	1.0	0.3
60°-70°	0.2	0.1
70°-80°	0.3	0.1
80°-90°	0.3	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°	177.5	47.7
0°-40°	336.5	90.5
0°-60°	371.1	99.8
0°-90°	372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	372.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13	13	13	13	13	
5°	29	20	12	6	4	4
15°	490	48	5	0	0	204
25°	2450	96	1	0	0	1108
35°	2322	26	0	0	0	1369
45°	295	5	0	0	0	325
55°	4	0	0	0	0	7
65°	0	0	1	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1316789

CATALOG NUMBER: P3SQAS05R209830DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
2.5°	18.1	17.8	18.1	17.8	18.1	18.1	18.1	17.8	17.8	17.8	17.8
5°	28.9	28.9	28.5	28.9	28.9	28.9	28.9	28.5	28.5	28.1	28.1
7.5°	45.5	45.5	45.1	45.1	45.5	45.9	44.4	45.1	45.1	45.1	44.8
10°	71.0	72.5	71.0	72.9	71.4	70.3	72.1	70.3	70.3	69.9	68.8
12.5°	179.1	175.0	172.4	166.1	172.4	167.6	168.7	167.6	163.9	159.1	156.1
15°	490.2	490.2	475.8	495.0	481.0	486.1	459.5	459.9	446.2	431.4	423.2
17.5°	1024.8	1034.1	1024.4	1018.5	1005.9	987.8	980.4	961.5	936.8	907.9	904.6
20°	1648.2	1609.4	1627.5	1610.8	1600.5	1578.3	1553.5	1538.0	1516.1	1479.5	1425.5
21°	1844.3	1842.8	1842.4	1842.1	1826.9	1790.6	1768.1	1737.0	1706.3	1668.6	1623.4
22°	2041.8	2048.9	2051.8	2030.4	1999.3	1983.0	1967.5	1924.9	1876.5	1856.9	1803.2
23°	2223.1	2216.5	2197.2	2187.2	2163.2	2158.4	2112.1	2085.1	2037.8	2016.3	1952.7
24°	2346.7	2343.4	2334.5	2319.7	2300.5	2270.9	2243.1	2200.6	2161.7	2126.6	2067.4
25°	2450.3	2453.3	2437.0	2427.0	2406.3	2373.0	2338.9	2292.3	2256.1	2215.0	2146.5
26°	2552.8	2532.1	2519.1	2504.3	2481.7	2443.6	2410.7	2368.9	2324.9	2279.0	2212.0
27°	2616.0	2597.5	2577.9	2563.5	2537.6	2501.3	2466.2	2420.0	2370.7	2324.5	2255.7
28°	2666.0	2645.6	2626.4	2609.0	2579.4	2540.6	2498.4	2451.4	2400.3	2352.6	2282.3
29°	2695.6	2671.5	2650.8	2631.2	2604.2	2562.0	2519.5	2469.2	2420.0	2370.0	2298.2
30°	2687.4	2666.7	2646.7	2626.8	2599.4	2559.8	2517.6	2469.5	2420.0	2370.7	2297.9
31°	2655.6	2630.1	2615.7	2595.7	2572.0	2531.7	2495.4	2442.9	2398.1	2344.9	2272.0
32°	2594.6	2578.3	2559.1	2543.5	2520.6	2477.7	2442.2	2399.2	2346.3	2302.7	2226.1
33°	2511.7	2496.5	2486.9	2468.8	2446.6	2417.0	2374.4	2335.2	2275.7	2230.9	2154.3
34°	2432.5	2413.3	2389.2	2384.1	2364.8	2326.7	2288.2	2248.3	2195.0	2138.0	2060.7
35°	2321.5	2301.6	2279.4	2281.2	2258.3	2213.9	2174.7	2129.9	2079.2	2012.3	1939.0
36°	2173.2	2159.9	2156.5	2147.7	2121.4	2068.5	2031.1	1974.9	1932.3	1850.6	1787.7
37°	1992.3	1997.1	1973.0	1961.6	1930.9	1893.9	1872.8	1800.6	1751.1	1689.6	1604.5
38°	1809.5	1802.5	1774.0	1781.0	1738.8	1700.4	1640.8	1597.9	1542.4	1485.4	1417.3
39°	1581.2	1563.9	1529.8	1531.3	1499.5	1456.2	1398.5	1347.8	1314.5	1259.7	1194.6
40°	1301.5	1294.1	1282.3	1262.7	1220.9	1202.0	1150.6	1095.8	1067.7	991.9	960.1
42.5°	722.2	712.2	692.2	685.2	663.0	640.8	610.8	574.2	556.4	533.9	483.5
45°	295.2	314.8	310.0	304.5	287.5	288.6	267.1	269.7	250.1	236.8	227.5
47.5°	65.1	70.7	71.0	68.4	71.0	68.8	67.7	65.9	66.2	67.3	64.7
50°	29.6	29.2	30.0	29.6	29.2	28.9	28.5	27.4	28.1	27.4	26.6
52.5°	11.5	11.8	11.8	11.1	11.5	11.5	11.5	11.1	11.1	11.1	11.1
55°	3.7	3.7	3.7	3.3	3.3	3.7	3.7	3.7	3.7	3.7	3.3
57.5°	0.4	0.7	0.4	0.7	0.4	0.4	0.4	0.4	0.4	0.7	0.7
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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1316789

CATALOG NUMBER: P3SQAS05R209830DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1316789

CATALOG NUMBER: P3SQAS05R209830DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3
2.5°	17.0	15.5	14.4	13.3	11.1	9.2	8.5	8.5
5°	26.3	20.3	15.2	12.2	8.5	5.5	4.4	4.1
7.5°	39.6	27.4	15.9	10.4	5.5	3.0	1.8	1.5
10°	57.3	35.5	16.6	8.5	3.3	1.1	0.0	0.0
12.5°	100.3	42.5	16.6	6.7	1.5	0.0	0.0	0.0
15°	229.7	47.7	15.9	4.8	0.4	0.0	0.0	0.0
17.5°	477.3	59.9	14.1	3.3	0.0	0.0	0.0	0.0
20°	762.1	78.1	11.1	1.8	0.0	0.0	0.0	0.0
21°	879.4	84.4	10.0	1.5	0.0	0.0	0.0	0.0
22°	963.8	90.3	8.9	1.1	0.0	0.0	0.0	0.0
23°	1056.6	94.0	7.8	0.7	0.0	0.0	0.0	0.0
24°	1125.1	96.2	6.7	0.7	0.0	0.0	0.0	0.0
25°	1167.6	96.2	5.9	0.7	0.0	0.0	0.0	0.0
26°	1192.8	94.0	5.2	0.4	0.0	0.0	0.0	0.0
27°	1198.7	90.3	4.4	0.4	0.0	0.0	0.0	0.0
28°	1191.3	85.5	3.7	0.0	0.0	0.0	0.0	0.0
29°	1168.0	78.4	3.3	0.0	0.0	0.0	0.0	0.0
30°	1142.8	71.0	2.6	0.0	0.0	0.0	0.0	0.0
31°	1099.9	61.0	2.2	0.0	0.0	0.0	0.0	0.0
32°	1050.3	50.7	1.8	0.0	0.0	0.0	0.0	0.0
33°	984.1	40.0	1.5	0.0	0.0	0.0	0.0	0.0
34°	886.4	31.4	1.5	0.0	0.0	0.0	0.0	0.0
35°	798.8	25.5	1.1	0.0	0.0	0.0	0.0	0.0
36°	684.1	20.3	1.1	0.0	0.0	0.0	0.0	0.0
37°	586.0	17.0	1.1	0.0	0.0	0.0	0.0	0.0
38°	490.6	14.4	0.7	0.0	0.0	0.0	0.0	0.0
39°	398.1	12.6	0.7	0.0	0.0	0.0	0.0	0.0
40°	317.4	11.1	0.7	0.0	0.0	0.0	0.0	0.0
42.5°	171.3	7.4	0.0	0.0	0.0	0.0	0.0	0.0
45°	94.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	41.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
50°	14.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0
57.5°	0.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.4	0.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.4	0.7	0.4	0.0	0.0	0.0
65°	0.0	0.0	0.7	0.7	0.4	0.0	0.0	0.0
67.5°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0



TEST NUMBER: P1316789

CATALOG NUMBER: P3SQAS05R209830DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.7	1.1	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)