

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: P1310603

Luminaire Tested: P3SQAS20R559040D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310603
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: P3SQAS20R559040D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

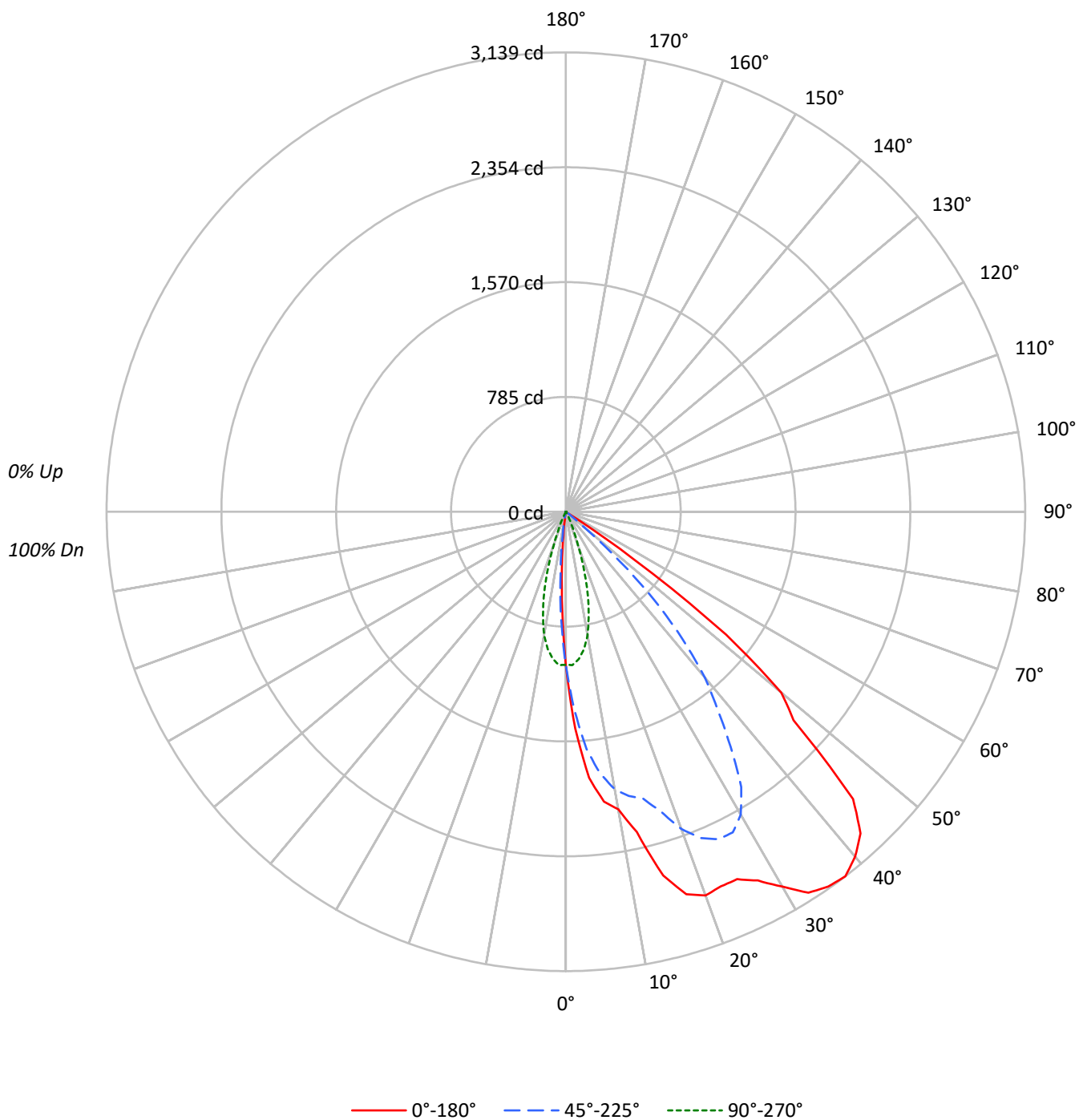
Lumens per Lamp: N/A
Luminaire Lumens: 1934.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1310603

CATALOG NUMBER: P3SQAS20R559040D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1310603

CATALOG NUMBER: P3SQAS20R559040D010 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	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°	179973	179973	179973	179973	179973
5°	315455	281207	174696	72575	41785
10°	361074	336590	149382	7940	2868
15°	458850	361321	102397	1623	981
20°	511302	422707	44976	0	0
25°	526336	469005	12770	0	0
30°	588046	475289	1810	0	0
35°	657247	412690	0	0	0
40°	691369	332195	0	0	0
45°	675951	209827	0	0	0
50°	514722	42842	0	0	0
55°	168627	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	3570	1785	0
85°	0	3557	3557	3557	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 675951 cd/sqm

TEST NUMBER: P1310603

CATALOG NUMBER: P3SQAS20R559040D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	4.9
10°-20°	279.8	14.5
20°-30°	455.1	23.5
30°-40°	540.8	28.0
40°-50°	442.3	22.9
50°-60°	117.2	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°	830.4	42.9
0°-40°	1371.2	70.9
0°-60°	1930.7	99.8
0°-90°	1934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1934.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1045	1045	1045	1045	1045	
5°	1825	1627	1010	420	242	179
15°	2574	2026	574	9	6	719
25°	2770	2468	67	0	0	1304
35°	3126	1963	0	0	0	1944
45°	2775	862	0	0	0	1992
55°	562	0	0	0	0	631
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	

TEST NUMBER: P1310603

CATALOG NUMBER: P3SQAS20R559040D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0	1045.0
2.5°	1483.1	1472.2	1474.0	1468.5	1474.0	1450.3	1424.9	1401.3	1383.1	1357.7	1203.2
5°	1824.7	1806.6	1801.1	1793.9	1786.6	1757.5	1733.9	1704.8	1670.3	1626.6	1343.1
7.5°	1997.4	1982.9	1975.6	1979.2	1962.9	1952.0	1921.1	1888.4	1852.0	1804.8	1448.5
10°	2064.7	2050.1	2048.3	2046.5	2044.7	2037.4	2022.9	1993.8	1961.1	1924.7	1508.5
12.5°	2240.9	2208.2	2186.4	2161.0	2130.1	2090.1	2057.4	2031.9	2019.2	1990.1	1535.8
15°	2573.5	2542.7	2519.0	2486.3	2428.1	2342.7	2264.6	2164.6	2077.4	2026.5	1524.9
17.5°	2740.8	2726.2	2706.2	2684.4	2644.4	2582.6	2502.7	2397.3	2286.4	2142.8	1472.2
20°	2789.8	2782.6	2768.0	2758.9	2731.7	2688.0	2633.5	2551.7	2448.1	2306.4	1390.4
22.5°	2769.8	2775.3	2782.6	2806.2	2809.8	2778.9	2728.0	2649.9	2544.5	2413.6	1265.0
25°	2769.8	2766.2	2766.2	2815.3	2846.2	2831.6	2795.3	2724.4	2617.2	2468.1	1110.5
27.5°	2840.7	2818.9	2773.5	2824.4	2875.2	2869.8	2837.1	2753.5	2633.5	2470.0	921.5
30°	2957.0	2909.8	2835.3	2882.5	2929.8	2909.8	2857.1	2749.8	2597.2	2390.0	690.6
32.5°	3086.1	3064.3	3026.1	3057.0	3049.7	2969.8	2875.2	2726.2	2522.7	2230.0	465.3
35°	3126.1	3129.7	3104.3	3098.8	3057.0	2975.2	2875.2	2659.0	2366.4	1962.9	276.3
37.5°	3138.8	3140.6	3100.6	3049.7	2987.9	2891.6	2771.7	2520.8	2077.4	1704.8	147.2
40°	3075.2	3073.4	3007.9	2946.1	2877.1	2782.6	2608.1	2230.0	1802.9	1477.6	52.7
42.5°	2980.7	2957.0	2895.2	2818.9	2735.3	2617.2	2344.5	1882.9	1566.7	1183.2	3.6
45°	2775.3	2753.5	2704.4	2622.6	2529.9	2362.7	1932.0	1617.6	1274.1	861.5	0.0
47.5°	2110.1	2099.2	2150.1	2161.0	2159.2	1968.3	1612.1	1319.5	936.0	501.6	0.0
50°	1921.1	1906.5	1855.6	1790.2	1673.9	1514.0	1292.2	977.8	548.9	159.9	0.0
52.5°	1379.5	1426.7	1437.6	1388.6	1279.5	1121.4	890.6	563.4	190.8	0.0	0.0
55°	561.6	532.5	554.3	581.6	603.4	554.3	410.7	199.9	1.8	0.0	0.0
57.5°	0.0	1.8	10.9	25.4	41.8	52.7	56.3	3.6	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	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	3.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	3.6
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

TEST NUMBER: P1310603

CATALOG NUMBER: P3SQAS20R559040D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	1045.0	1045.0	1045.0	1045.0	1045.0
2.5°	1048.7	886.9	730.6	645.2	603.4
5°	1010.5	677.9	419.8	290.8	241.7
7.5°	946.9	465.3	167.2	69.1	49.1
10°	854.2	267.2	45.4	18.2	16.4
12.5°	721.5	121.8	16.4	12.7	12.7
15°	574.3	41.8	9.1	7.3	5.5
17.5°	403.5	10.9	3.6	0.0	0.0
20°	245.4	1.8	0.0	0.0	0.0
22.5°	136.3	0.0	0.0	0.0	0.0
25°	67.2	0.0	0.0	0.0	0.0
27.5°	29.1	0.0	0.0	0.0	0.0
30°	9.1	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°	3.6	1.8	1.8	0.0	0.0
80°	3.6	1.8	1.8	0.0	0.0
82.5°	3.6	1.8	1.8	0.0	0.0
85°	1.8	1.8	1.8	0.0	0.0
87.5°	3.6	1.8	1.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)