

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: P1315705

Luminaire Tested: P3SQAS20R509740D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R509740D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

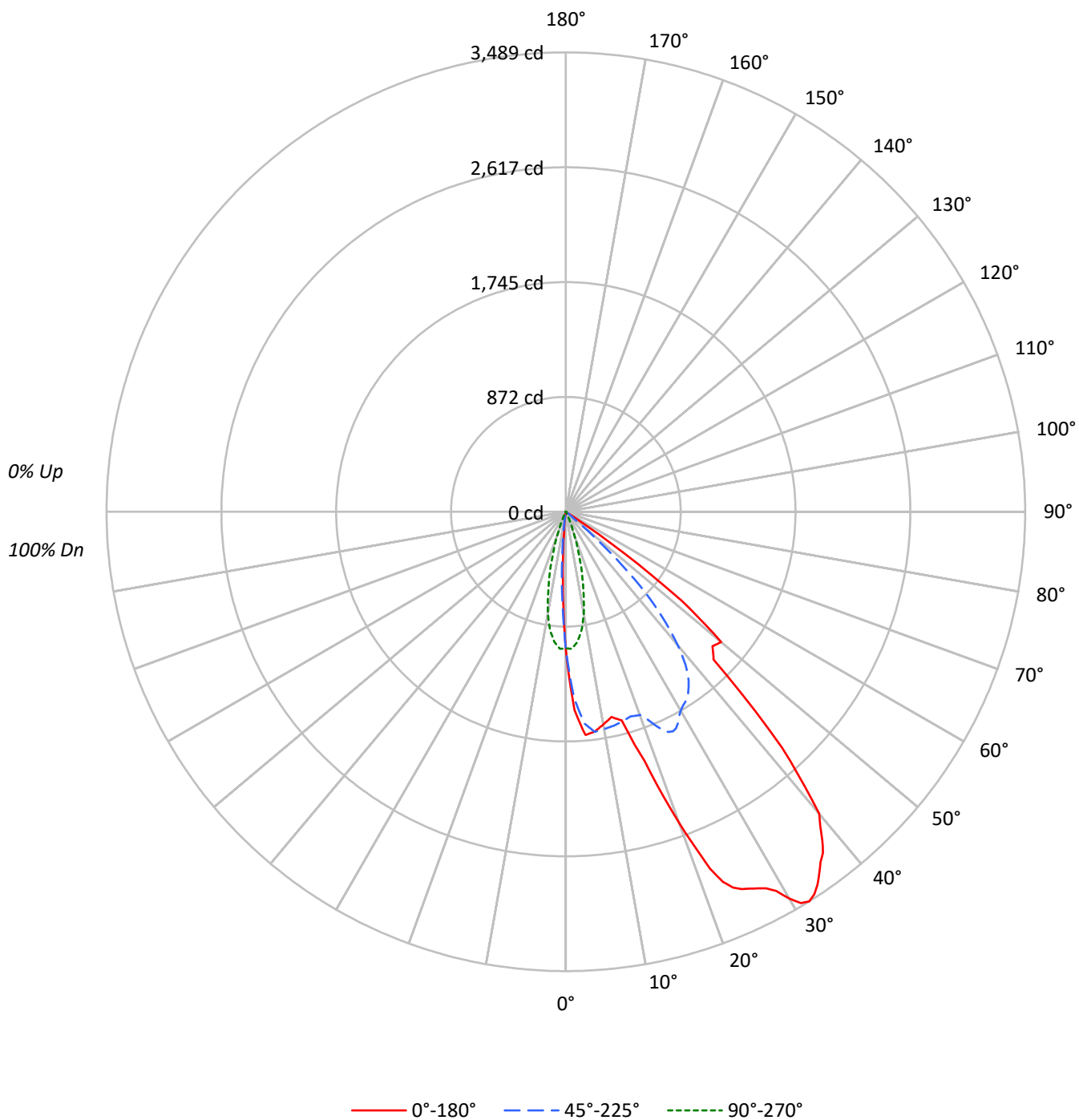
Lumens per Lamp: N/A
Luminaire Lumens: 1670.0 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1315705

CATALOG NUMBER: P3SQAS20R509740D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1315705

CATALOG NUMBER: P3SQAS20R509740D010 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	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	178578	178578	178578	178578	178578
5°	294225	279219	171601	50965	25483
10°	286750	293045	137508	2571	3445
15°	292355	294103	82356	2621	874
20°	460828	301103	33924	0	0
25°	600750	350808	8095	0	0
30°	674294	346921	318	0	0
35°	705645	341627	0	0	0
40°	673181	296831	0	0	0
45°	386602	195895	0	0	0
50°	412533	22372	0	0	0
55°	117552	0	0	0	0
60°	0	0	551	0	0
65°	0	652	652	0	0
70°	0	806	806	0	0
75°	0	1065	1065	0	0
80°	0	1587	3273	1587	0
85°	0	3162	6521	3162	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 426887 cd/sqm

TEST NUMBER: P1315705

CATALOG NUMBER: P3SQAS20R509740D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	5.2
10°-20°	219.4	13.1
20°-30°	421.4	25.2
30°-40°	490.5	29.4
40°-50°	351.0	21.0
50°-60°	97.7	5.9
60°-70°	0.6	0.0
70°-80°	1.0	0.1
80°-90°	1.2	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°	727.9	43.6
0°-40°	1218.4	73.0
0°-60°	1667.1	99.8
0°-90°	1670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1670.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1037	1037	1037	1037	1037	
5°	1702	1615	993	295	147	156
15°	1640	1650	462	15	5	529
25°	3161	1846	43	0	0	1438
35°	3356	1625	0	0	0	2077
45°	1587	804	0	0	0	1493
55°	392	0	0	0	0	493
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	3	2	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1315705

CATALOG NUMBER: P3SQAS20R509740D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9	1036.9
2.5°	1507.0	1515.2	1516.8	1497.2	1500.4	1472.6	1474.2	1454.6	1407.1	1241.6	1041.8
5°	1701.9	1697.0	1701.9	1695.4	1701.9	1685.5	1675.7	1667.5	1615.1	1380.9	992.6
7.5°	1683.9	1677.3	1687.2	1690.4	1701.9	1697.0	1698.6	1703.6	1685.5	1456.2	909.1
10°	1639.7	1638.0	1642.9	1642.9	1656.0	1657.7	1664.2	1674.1	1675.7	1482.4	786.3
12.5°	1597.1	1592.2	1592.2	1590.5	1597.1	1595.4	1611.8	1634.8	1665.9	1466.0	617.5
15°	1639.7	1634.8	1628.2	1610.2	1597.1	1582.3	1584.0	1598.7	1649.5	1423.4	461.9
17.5°	1983.7	1957.4	1924.7	1867.4	1806.7	1701.9	1639.7	1600.4	1629.8	1357.9	307.9
20°	2514.4	2502.9	2450.5	2357.1	2258.8	2104.9	1913.2	1759.2	1642.9	1276.0	185.1
21°	2715.9	2709.3	2653.6	2566.8	2455.4	2268.7	2072.1	1887.0	1669.2	1241.6	145.8
22°	2922.2	2897.7	2853.4	2756.8	2640.5	2453.8	2234.3	2029.5	1721.6	1197.4	111.4
23°	3054.9	3040.2	2992.7	2915.7	2804.3	2622.5	2398.1	2175.3	1772.3	1148.3	83.5
24°	3123.7	3118.8	3081.1	3027.1	2932.1	2747.0	2534.0	2304.7	1814.9	1090.9	60.6
25°	3161.4	3145.0	3122.1	3082.8	3010.7	2850.2	2660.2	2417.7	1846.1	1033.6	42.6
26°	3184.3	3174.5	3138.5	3104.1	3035.3	2904.2	2742.1	2486.5	1854.3	963.2	29.5
27°	3210.5	3187.6	3153.2	3112.3	3035.3	2920.6	2773.2	2516.0	1844.4	891.1	19.7
28°	3238.4	3222.0	3174.5	3122.1	3030.4	2920.6	2761.7	2476.7	1814.9	822.3	11.5
29°	3292.4	3271.1	3212.2	3135.2	3032.0	2917.3	2717.5	2394.8	1775.6	745.3	6.6
30°	3390.7	3346.5	3274.4	3166.3	3043.5	2910.8	2643.8	2271.9	1744.5	658.5	1.6
31°	3467.7	3443.1	3359.6	3223.6	3076.2	2892.8	2557.0	2150.7	1723.2	583.1	0.0
32°	3489.0	3471.0	3410.4	3282.6	3131.9	2878.0	2458.7	2032.8	1706.8	499.6	0.0
33°	3464.4	3453.0	3389.1	3272.8	3146.7	2858.4	2345.7	1916.5	1688.8	424.2	0.0
34°	3418.6	3403.8	3348.1	3230.2	3109.0	2773.2	2237.5	1828.0	1662.6	353.8	0.0
35°	3356.3	3344.9	3287.5	3171.2	3040.2	2640.5	2129.4	1769.1	1624.9	283.4	0.0
36°	3289.2	3285.9	3212.2	3097.5	2951.7	2512.7	1998.4	1724.8	1587.3	224.4	0.0
37°	3244.9	3228.6	3148.3	3035.3	2846.9	2363.7	1893.6	1710.1	1534.8	173.6	0.0
38°	3164.7	3168.0	3076.2	2973.0	2740.4	2234.3	1808.4	1698.6	1475.9	126.1	0.0
39°	3069.7	3071.3	2976.3	2887.8	2614.3	2098.3	1737.9	1687.2	1402.2	80.3	0.0
40°	2994.3	2992.7	2884.6	2789.6	2478.3	1970.6	1700.3	1670.8	1320.3	45.9	0.0
42.5°	2434.1	2443.9	2457.0	2496.4	2158.9	1746.1	1664.2	1579.1	1087.7	0.0	0.0
45°	1587.3	1624.9	1634.8	1752.7	1751.1	1654.4	1579.1	1415.3	804.3	0.0	0.0
47.5°	1510.3	1521.7	1543.0	1588.9	1613.5	1566.0	1412.0	1182.7	439.0	0.0	0.0
50°	1539.7	1538.1	1543.0	1543.0	1498.8	1375.9	1158.1	873.1	83.5	0.0	0.0
52.5°	1105.7	1146.6	1190.8	1210.5	1153.2	1023.8	845.2	512.7	0.0	0.0	0.0
55°	391.5	378.4	368.6	403.0	394.8	443.9	366.9	119.6	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	6.6	14.7	19.7	0.0	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	1.6	1.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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	1.6	1.6	1.6	1.6	3.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.3



TEST NUMBER: P1315705

CATALOG NUMBER: P3SQAS20R509740D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.3
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: P1315705

CATALOG NUMBER: P3SQAS20R509740D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	1036.9	1036.9	1036.9	1036.9
2.5°	830.5	637.2	516.0	524.2
5°	583.1	294.8	181.8	147.4
7.5°	348.9	90.1	18.0	14.7
10°	163.8	14.7	16.4	19.7
12.5°	49.1	13.1	18.0	16.4
15°	13.1	14.7	8.2	4.9
17.5°	4.9	6.6	0.0	0.0
20°	3.3	0.0	0.0	0.0
21°	3.3	0.0	0.0	0.0
22°	1.6	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.6	0.0	0.0	0.0
67.5°	1.6	0.0	0.0	0.0
70°	1.6	0.0	0.0	0.0
72.5°	1.6	0.0	0.0	0.0
75°	1.6	0.0	0.0	0.0
77.5°	1.6	0.0	0.0	0.0
80°	1.6	1.6	0.0	0.0



TEST NUMBER: P1315705

CATALOG NUMBER: P3SQAS20R509740D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.6	1.6	0.0	0.0
85°	1.6	1.6	0.0	0.0
87.5°	1.6	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)