

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: P1313761

Luminaire Tested: P3SQAS20R509730D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313761
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: P3SQAS20R509730D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

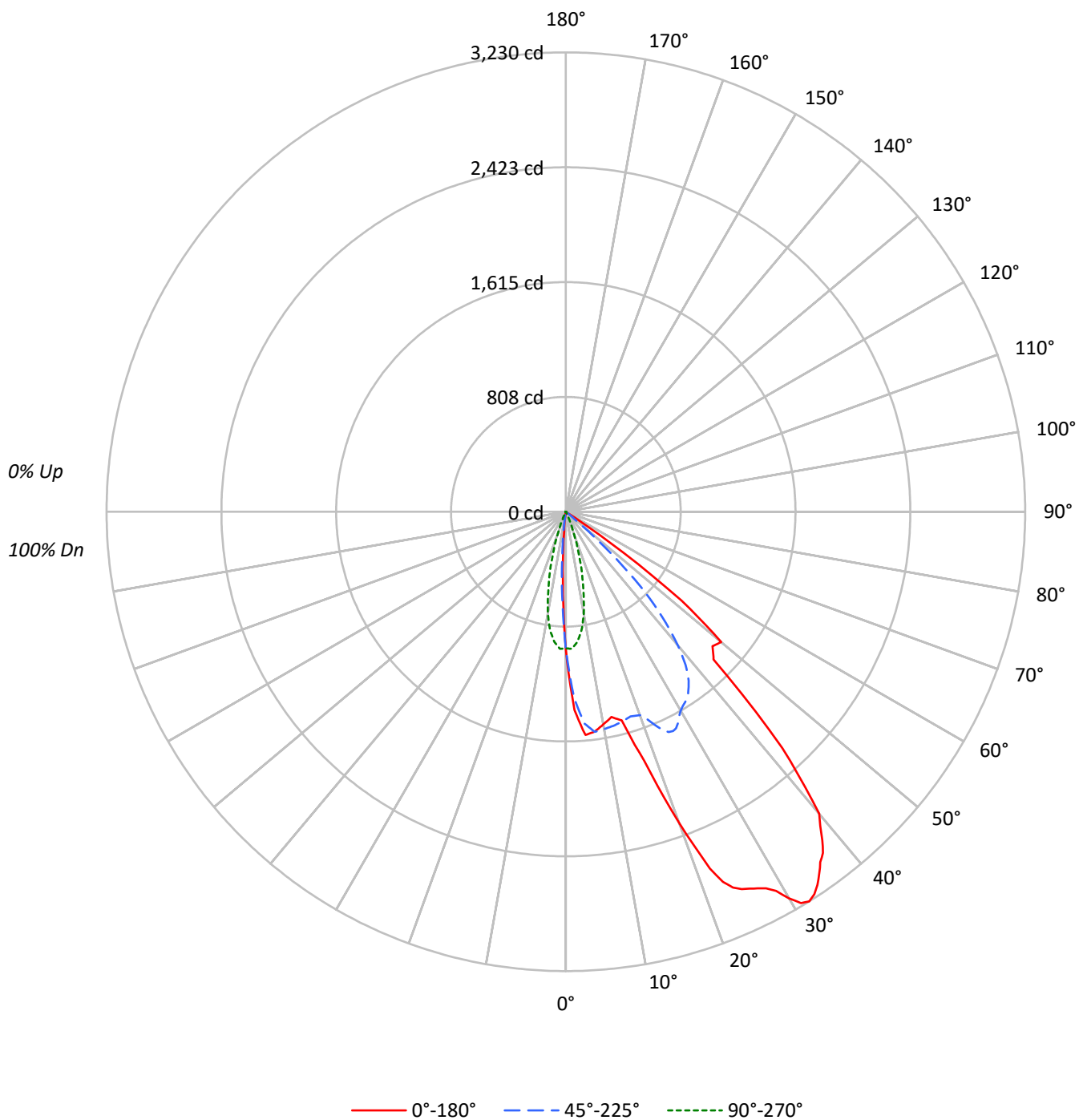
Lumens per Lamp: N/A
Luminaire Lumens: 1546.0 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1313761

CATALOG NUMBER: P3SQAS20R509730D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1313761

CATALOG NUMBER: P3SQAS20R509730D010 E3SQCA301MMS

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	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°	165317	165317	165317	165317	165317
5°	272373	258491	158860	47196	23598
10°	265450	271290	127295	2378	3183
15°	270639	272261	76240	2425	802
20°	426610	278762	31413	0	0
25°	556151	324756	7487	0	0
30°	624239	321168	298	0	0
35°	653252	316272	0	0	0
40°	623203	274776	0	0	0
45°	357886	181354	0	0	0
50°	381909	20711	0	0	0
55°	108815	0	0	0	0
60°	0	0	517	0	0
65°	0	611	611	0	0
70°	0	755	755	0	0
75°	0	998	998	0	0
80°	0	1488	2975	1488	0
85°	0	2964	5928	2964	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 395200 cd/sqm

TEST NUMBER: P1313761

CATALOG NUMBER: P3SQAS20R509730D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	5.2
10°-20°	203.1	13.1
20°-30°	390.1	25.2
30°-40°	454.1	29.4
40°-50°	325.0	21.0
50°-60°	90.4	5.9
60°-70°	0.6	0.0
70°-80°	0.9	0.1
80°-90°	1.1	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°	673.8	43.6
0°-40°	1127.9	73.0
0°-60°	1543.3	99.8
0°-90°	1546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1546.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	960	960	960	960	960	
5°	1576	1495	919	273	136	145
15°	1518	1527	428	14	4	490
25°	2927	1709	39	0	0	1331
35°	3107	1504	0	0	0	1922
45°	1469	745	0	0	0	1382
55°	362	0	0	0	0	456
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: P1313761

CATALOG NUMBER: P3SQAS20R509730D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9	959.9
2.5°	1395.1	1402.7	1404.2	1386.0	1389.0	1363.2	1364.8	1346.6	1302.6	1149.4	964.4
5°	1575.5	1571.0	1575.5	1569.5	1575.5	1560.4	1551.3	1543.7	1495.2	1278.3	918.9
7.5°	1558.9	1552.8	1561.9	1564.9	1575.5	1571.0	1572.5	1577.1	1560.4	1348.1	841.6
10°	1517.9	1516.4	1521.0	1521.0	1533.1	1534.6	1540.7	1549.8	1551.3	1372.3	727.9
12.5°	1478.5	1473.9	1473.9	1472.4	1478.5	1477.0	1492.1	1513.4	1542.2	1357.2	571.7
15°	1517.9	1513.4	1507.3	1490.6	1478.5	1464.8	1466.4	1480.0	1527.0	1317.8	427.6
17.5°	1836.4	1812.1	1781.8	1728.7	1672.6	1575.5	1517.9	1481.5	1508.8	1257.1	285.1
20°	2327.7	2317.1	2268.5	2182.1	2091.1	1948.6	1771.2	1628.6	1521.0	1181.3	171.4
21°	2514.2	2508.1	2456.6	2376.2	2273.1	2100.2	1918.3	1746.9	1545.2	1149.4	135.0
22°	2705.3	2682.5	2641.6	2552.1	2444.4	2271.6	2068.4	1878.8	1593.7	1108.5	103.1
23°	2828.1	2814.4	2770.5	2699.2	2596.1	2427.8	2220.0	2013.8	1640.7	1063.0	77.3
24°	2891.8	2887.2	2852.4	2802.3	2714.4	2543.0	2345.9	2133.6	1680.2	1009.9	56.1
25°	2926.7	2911.5	2890.3	2853.9	2787.2	2638.5	2462.6	2238.2	1709.0	956.9	39.4
26°	2947.9	2938.8	2905.4	2873.6	2809.9	2688.6	2538.5	2301.9	1716.6	891.6	27.3
27°	2972.2	2950.9	2919.1	2881.2	2809.9	2703.7	2567.3	2329.2	1707.5	824.9	18.2
28°	2997.9	2982.8	2938.8	2890.3	2805.3	2703.7	2556.7	2292.8	1680.2	761.2	10.6
29°	3048.0	3028.3	2973.7	2902.4	2806.9	2700.7	2515.7	2217.0	1643.8	690.0	6.1
30°	3139.0	3098.0	3031.3	2931.2	2817.5	2694.6	2447.5	2103.3	1615.0	609.6	1.5
31°	3210.2	3187.5	3110.1	2984.3	2847.8	2678.0	2367.1	1991.0	1595.3	539.8	0.0
32°	3229.9	3213.3	3157.2	3038.9	2899.4	2664.3	2276.1	1881.9	1580.1	462.5	0.0
33°	3207.2	3196.6	3137.4	3029.8	2913.0	2646.1	2171.5	1774.2	1563.4	392.7	0.0
34°	3164.7	3151.1	3099.5	2990.3	2878.1	2567.3	2071.4	1692.3	1539.1	327.5	0.0
35°	3107.1	3096.5	3043.4	2935.8	2814.4	2444.4	1971.3	1637.7	1504.3	262.3	0.0
36°	3044.9	3041.9	2973.7	2867.5	2732.6	2326.2	1850.0	1596.8	1469.4	207.7	0.0
37°	3004.0	2988.8	2914.5	2809.9	2635.5	2188.2	1753.0	1583.1	1420.9	160.7	0.0
38°	2929.7	2932.7	2847.8	2752.3	2536.9	2068.4	1674.1	1572.5	1366.3	116.8	0.0
39°	2841.7	2843.3	2755.3	2673.4	2420.2	1942.5	1608.9	1561.9	1298.0	74.3	0.0
40°	2772.0	2770.5	2670.4	2582.4	2294.3	1824.2	1574.0	1546.7	1222.2	42.5	0.0
42.5°	2253.4	2262.5	2274.6	2311.0	1998.6	1616.5	1540.7	1461.8	1006.9	0.0	0.0
45°	1469.4	1504.3	1513.4	1622.6	1621.0	1531.6	1461.8	1310.2	744.6	0.0	0.0
47.5°	1398.1	1408.7	1428.5	1470.9	1493.7	1449.7	1307.1	1094.8	406.4	0.0	0.0
50°	1425.4	1423.9	1428.5	1428.5	1387.5	1273.8	1072.1	808.2	77.3	0.0	0.0
52.5°	1023.6	1061.5	1102.4	1120.6	1067.5	947.8	782.5	474.6	0.0	0.0	0.0
55°	362.4	350.3	341.2	373.0	365.5	410.9	339.7	110.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.5	6.1	13.6	18.2	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	1.5	1.5
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.0



TEST NUMBER: P1313761

CATALOG NUMBER: P3SQAS20R509730D010 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	1.5	1.5	1.5	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	3.0
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: P1313761

CATALOG NUMBER: P3SQAS20R509730D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	959.9	959.9	959.9	959.9
2.5°	768.8	589.9	477.7	485.2
5°	539.8	273.0	168.3	136.5
7.5°	323.0	83.4	16.7	13.6
10°	151.6	13.6	15.2	18.2
12.5°	45.5	12.1	16.7	15.2
15°	12.1	13.6	7.6	4.5
17.5°	4.5	6.1	0.0	0.0
20°	3.0	0.0	0.0	0.0
21°	3.0	0.0	0.0	0.0
22°	1.5	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°	1.5	0.0	0.0	0.0
67.5°	1.5	0.0	0.0	0.0
70°	1.5	0.0	0.0	0.0
72.5°	1.5	0.0	0.0	0.0
75°	1.5	0.0	0.0	0.0
77.5°	1.5	0.0	0.0	0.0
80°	1.5	1.5	0.0	0.0



TEST NUMBER: P1313761

CATALOG NUMBER: P3SQAS20R509730D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.5	1.5	0.0	0.0
85°	1.5	1.5	0.0	0.0
87.5°	1.5	1.5	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)