

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: P1317447

Luminaire Tested: P3SQAS20R459830D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317447
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: P3SQAS20R459830D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

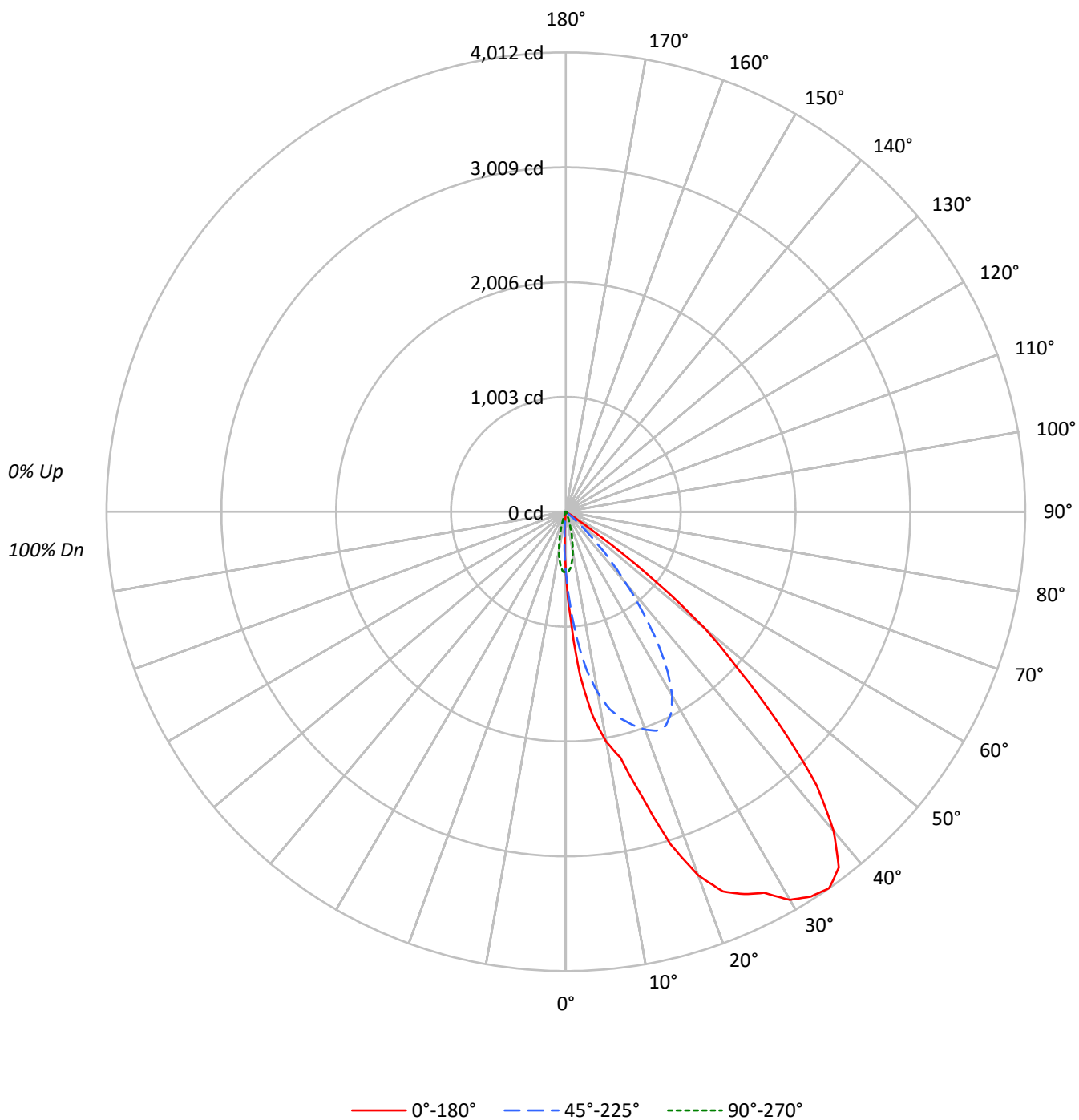
Lumens per Lamp: N/A
Luminaire Lumens: 1701.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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: P1317447

CATALOG NUMBER: P3SQAS20R459830D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1317447

CATALOG NUMBER: P3SQAS20R459830D010 E3SQCA301MB

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	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°	90985	90985	90985	90985	90985
5°	248395	191102	84210	16890	6327
10°	356737	280367	60876	1609	1329
15°	459260	333489	32397	553	0
20°	618995	371060	12316	0	0
25°	700115	391987	3192	0	0
30°	778221	369532	298	0	0
35°	843608	294679	0	0	0
40°	817650	185027	0	0	0
45°	648185	88144	0	0	0
50°	424215	11039	0	0	0
55°	72903	0	0	0	0
60°	0	0	517	0	0
65°	0	611	611	0	0
70°	0	755	1561	0	0
75°	0	998	2063	0	0
80°	0	1488	3075	1488	0
85°	0	2964	6126	2964	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 648185 cd/sqm

TEST NUMBER: P1317447

CATALOG NUMBER: P3SQAS20R459830D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	3.7
10°-20°	242.3	14.2
20°-30°	453.6	26.7
30°-40°	529.5	31.1
40°-50°	345.3	20.3
50°-60°	64.1	3.8
60°-70°	0.6	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°	758.8	44.6
0°-40°	1288.3	75.7
0°-60°	1697.7	99.8
0°-90°	1701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1701.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	528	528	528	528	528	
5°	1437	1105	487	98	37	154
15°	2576	1870	182	3	0	768
25°	3684	2063	17	0	0	1704
35°	4012	1402	0	0	0	2461
45°	2661	362	0	0	0	2024
55°	243	0	0	0	0	422
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	

TEST NUMBER: P1317447

CATALOG NUMBER: P3SQAS20R459830D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3
2.5°	931.4	939.0	923.7	917.6	897.8	902.4	868.8	855.0	833.7	798.5	781.7
5°	1436.8	1423.0	1410.8	1384.8	1369.6	1328.3	1282.5	1230.6	1168.0	1105.4	1033.7
7.5°	1797.1	1786.4	1781.8	1760.4	1729.9	1687.2	1627.6	1562.0	1481.0	1397.1	1288.6
10°	2039.9	2029.2	2010.8	1989.5	1965.0	1929.9	1871.9	1800.1	1711.6	1603.2	1476.5
12.5°	2198.6	2197.1	2166.6	2142.2	2111.6	2081.1	2021.5	1963.5	1876.5	1765.0	1621.5
15°	2575.8	2551.3	2511.6	2442.9	2357.4	2278.0	2181.8	2090.2	1995.6	1870.4	1710.1
17.5°	3046.0	3018.6	2951.4	2864.3	2726.9	2575.8	2410.9	2265.8	2123.8	1954.4	1765.0
20°	3377.4	3366.7	3310.2	3209.4	3062.8	2862.8	2646.0	2441.4	2241.4	2024.6	1791.0
22.5°	3589.6	3583.5	3560.6	3491.9	3342.2	3117.8	2838.4	2563.6	2322.3	2068.9	1783.3
25°	3684.3	3691.9	3694.9	3661.4	3540.7	3311.7	2980.4	2656.7	2368.1	2062.8	1725.3
27.5°	3751.4	3751.4	3763.7	3748.4	3626.2	3385.0	3035.4	2688.8	2352.9	1987.9	1603.2
30°	3913.3	3910.2	3917.9	3876.6	3707.2	3407.9	3010.9	2636.8	2265.8	1858.2	1427.6
32.5°	3983.5	3986.6	3985.0	3919.4	3722.4	3392.6	2951.4	2537.6	2105.5	1655.1	1195.5
35°	4012.5	3998.8	3942.3	3792.7	3543.8	3189.6	2783.4	2369.7	1881.1	1401.6	943.6
37.5°	3916.3	3876.6	3751.4	3546.8	3243.0	2902.5	2505.5	2068.9	1583.3	1099.3	710.0
40°	3636.9	3585.0	3427.7	3180.4	2902.5	2595.6	2177.3	1716.2	1238.3	823.0	497.7
42.5°	3241.5	3181.9	3012.4	2797.2	2543.7	2221.5	1804.7	1343.6	906.9	568.0	316.1
45°	2661.3	2627.7	2530.0	2348.3	2099.4	1765.0	1383.3	980.2	627.5	361.9	161.8
47.5°	2058.2	2015.4	1945.2	1820.0	1612.3	1294.8	968.0	665.7	403.1	178.6	33.6
50°	1583.3	1532.9	1447.4	1308.5	1091.7	864.2	627.5	415.3	204.6	41.2	1.5
52.5°	911.5	922.2	881.0	792.4	671.8	517.6	363.4	209.2	45.8	1.5	0.0
55°	242.8	262.6	256.5	276.4	242.8	204.6	151.2	39.7	3.1	0.0	0.0
57.5°	0.0	0.0	1.5	3.1	9.2	13.7	4.6	1.5	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	1.5	1.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	1.5	1.5	1.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
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: P1317447

CATALOG NUMBER: P3SQAS20R459830D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3
2.5°	743.6	711.5	671.8	525.2	395.5	284.0	221.4	204.6
5°	965.0	887.1	786.3	487.1	244.3	97.7	44.3	36.6
7.5°	1174.1	1059.6	877.9	426.0	123.7	24.4	12.2	10.7
10°	1336.0	1181.8	945.1	348.1	45.8	9.2	7.6	7.6
12.5°	1447.4	1259.6	969.5	264.1	16.8	4.6	4.6	3.1
15°	1511.6	1290.2	946.6	181.7	6.1	3.1	0.0	0.0
17.5°	1531.4	1278.0	885.6	114.5	1.5	0.0	0.0	0.0
20°	1514.6	1218.4	789.4	67.2	0.0	0.0	0.0	0.0
22.5°	1459.7	1125.3	673.3	36.6	0.0	0.0	0.0	0.0
25°	1357.4	994.0	537.4	16.8	0.0	0.0	0.0	0.0
27.5°	1190.9	824.5	404.6	6.1	0.0	0.0	0.0	0.0
30°	1001.6	642.8	287.0	1.5	0.0	0.0	0.0	0.0
32.5°	781.7	473.3	184.7	0.0	0.0	0.0	0.0	0.0
35°	587.8	331.3	109.9	0.0	0.0	0.0	0.0	0.0
37.5°	409.2	209.2	58.0	0.0	0.0	0.0	0.0	0.0
40°	255.0	113.0	19.8	0.0	0.0	0.0	0.0	0.0
42.5°	142.0	39.7	1.5	0.0	0.0	0.0	0.0	0.0
45°	33.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.5	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	1.5	0.0	0.0	0.0	0.0
60°	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0
62.5°	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0
65°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
67.5°	1.5	1.5	1.5	1.5	1.5	0.0	0.0	0.0
70°	1.5	1.5	1.5	3.1	1.5	0.0	0.0	0.0
72.5°	1.5	1.5	3.1	3.1	1.5	0.0	0.0	0.0
75°	1.5	1.5	3.1	3.1	1.5	0.0	0.0	0.0
77.5°	1.5	3.1	3.1	3.1	1.5	1.5	0.0	0.0
80°	1.5	3.1	3.1	3.1	3.1	1.5	0.0	0.0
82.5°	1.5	3.1	3.1	3.1	3.1	1.5	0.0	0.0
85°	1.5	3.1	3.1	3.1	1.5	1.5	0.0	0.0
87.5°	1.5	3.1	3.1	3.1	3.1	1.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)