

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: P1307085

Luminaire Tested: P3SQAS17R459027DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307085
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: P3SQAS17R459027DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

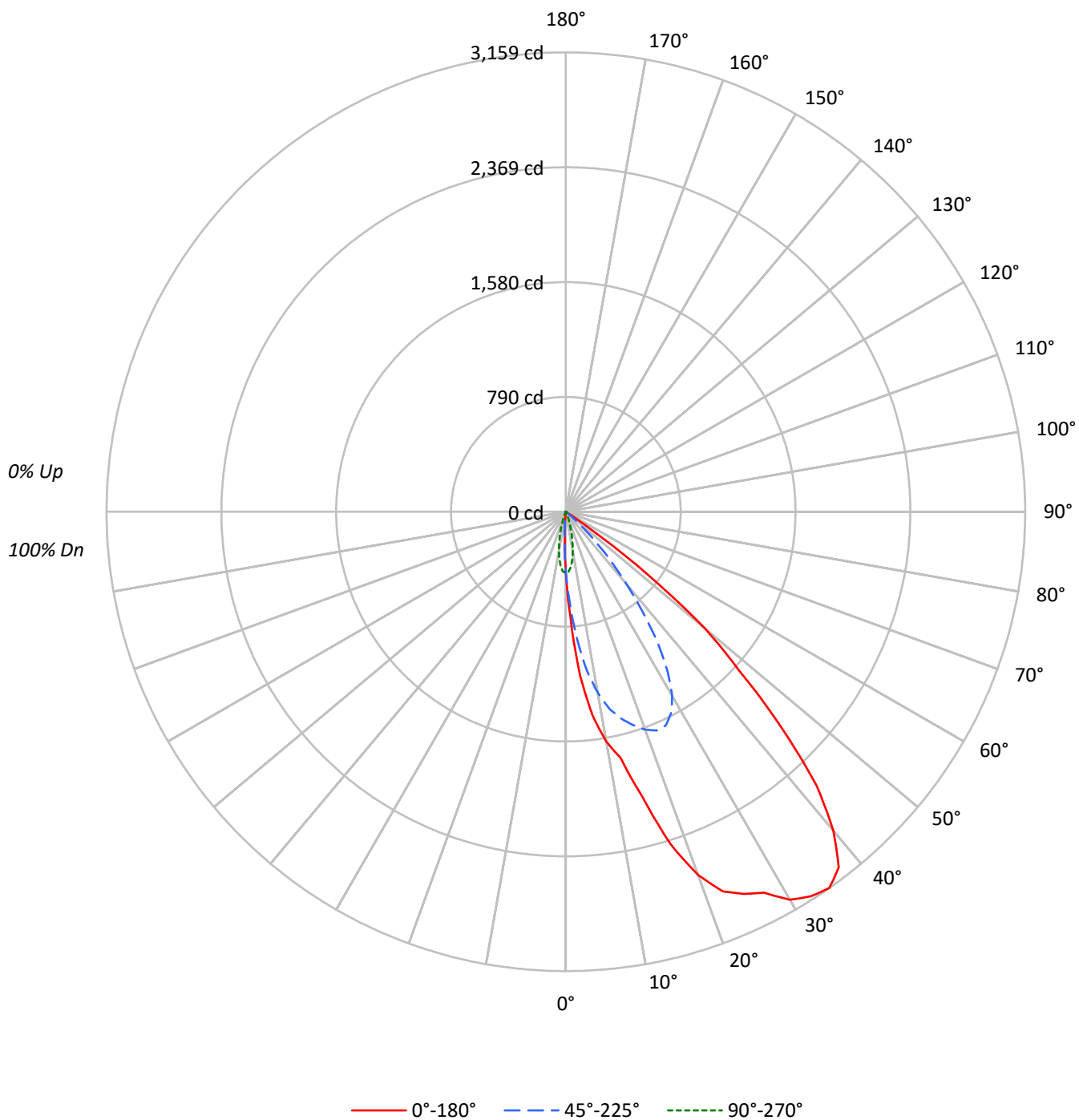
Lumens per Lamp: N/A
Luminaire Lumens: 1339.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: P1307085

CATALOG NUMBER: P3SQAS17R459027DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1307085

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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	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°	71627	71627	71627	71627	71627
5°	195528	150441	66282	13295	4979
10°	280804	220698	47917	1259	1049
15°	361517	262508	25497	428	0
20°	487256	292086	9695	0	0
25°	551115	308565	2508	0	0
30°	612605	290881	239	0	0
35°	664080	231963	0	0	0
40°	643639	145639	0	0	0
45°	510233	69390	0	0	0
50°	333949	8708	0	0	0
55°	57380	0	0	0	0
60°	0	0	413	0	0
65°	0	489	489	0	0
70°	0	604	1209	0	0
75°	0	799	1597	0	0
80°	0	1190	2380	1190	0
85°	0	2371	4742	2371	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 510233 cd/sqm

TEST NUMBER: P1307085

CATALOG NUMBER: P3SQAS17R459027DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	3.7
10°-20°	190.8	14.2
20°-30°	357.1	26.7
30°-40°	416.8	31.1
40°-50°	271.8	20.3
50°-60°	50.5	3.8
60°-70°	0.5	0.0
70°-80°	1.0	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°	597.3	44.6
0°-40°	1014.2	75.7
0°-60°	1336.4	99.8
0°-90°	1339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1339.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	416	416	416	416	416	
5°	1131	870	383	77	29	121
15°	2028	1472	143	2	0	604
25°	2900	1624	13	0	0	1341
35°	3159	1103	0	0	0	1937
45°	2095	285	0	0	0	1593
55°	191	0	0	0	0	332
65°	0	1	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1307085

CATALOG NUMBER: P3SQA517R459027DE010 E3SQA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9
2.5°	733.2	739.2	727.2	722.3	706.7	710.3	683.9	673.1	656.2	628.6	615.4
5°	1131.0	1120.2	1110.6	1090.1	1078.1	1045.7	1009.6	968.7	919.5	870.2	813.7
7.5°	1414.6	1406.2	1402.6	1385.8	1361.8	1328.1	1281.2	1229.5	1165.8	1099.7	1014.4
10°	1605.7	1597.3	1582.9	1566.1	1546.8	1519.2	1473.5	1417.0	1347.3	1262.0	1162.2
12.5°	1730.7	1729.5	1705.5	1686.3	1662.2	1638.2	1591.3	1545.6	1477.1	1389.4	1276.4
15°	2027.6	2008.4	1977.1	1923.0	1855.7	1793.2	1717.5	1645.4	1570.9	1472.3	1346.1
17.5°	2397.8	2376.2	2323.3	2254.8	2146.6	2027.6	1897.8	1783.6	1671.8	1538.4	1389.4
20°	2658.6	2650.2	2605.7	2526.4	2411.0	2253.6	2082.9	1921.8	1764.4	1593.7	1409.8
22.5°	2825.7	2820.9	2802.8	2748.7	2631.0	2454.3	2234.3	2018.0	1828.1	1628.6	1403.8
25°	2900.2	2906.2	2908.6	2882.2	2787.2	2606.9	2346.1	2091.3	1864.1	1623.8	1358.1
27.5°	2953.1	2953.1	2962.7	2950.7	2854.5	2664.6	2389.4	2116.5	1852.1	1564.9	1262.0
30°	3080.5	3078.1	3084.1	3051.6	2918.2	2682.6	2370.1	2075.7	1783.6	1462.7	1123.8
32.5°	3135.8	3138.2	3137.0	3085.3	2930.2	2670.6	2323.3	1997.6	1657.4	1302.9	941.1
35°	3158.6	3147.8	3103.3	2985.5	2789.6	2510.8	2191.1	1865.4	1480.7	1103.3	742.8
37.5°	3082.9	3051.6	2953.1	2792.0	2552.8	2284.8	1972.3	1628.6	1246.4	865.4	558.9
40°	2862.9	2822.1	2698.3	2503.6	2284.8	2043.2	1713.9	1350.9	974.7	647.8	391.8
42.5°	2551.6	2504.8	2371.4	2201.9	2002.4	1748.8	1420.6	1057.7	713.9	447.1	248.8
45°	2094.9	2068.5	1991.6	1848.5	1652.6	1389.4	1088.9	771.6	494.0	284.9	127.4
47.5°	1620.2	1586.5	1531.2	1432.7	1269.2	1019.2	762.0	524.0	317.3	140.6	26.4
50°	1246.4	1206.7	1139.4	1030.0	859.4	680.3	494.0	326.9	161.1	32.5	1.2
52.5°	717.5	725.9	693.5	623.8	528.8	407.4	286.1	164.7	36.1	1.2	0.0
55°	191.1	206.7	201.9	217.5	191.1	161.1	119.0	31.2	2.4	0.0	0.0
57.5°	0.0	0.0	1.2	2.4	7.2	10.8	3.6	1.2	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	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
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: P1307085

CATALOG NUMBER: P3SQAS17R459027DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	415.9	415.9	415.9	415.9	415.9	415.9	415.9	415.9
2.5°	585.3	560.1	528.8	413.5	311.3	223.6	174.3	161.1
5°	759.6	698.3	619.0	383.4	192.3	76.9	34.9	28.8
7.5°	924.3	834.1	691.1	335.3	97.4	19.2	9.6	8.4
10°	1051.7	930.3	744.0	274.0	36.1	7.2	6.0	6.0
12.5°	1139.4	991.6	763.2	207.9	13.2	3.6	3.6	2.4
15°	1189.9	1015.6	745.2	143.0	4.8	2.4	0.0	0.0
17.5°	1205.5	1006.0	697.1	90.1	1.2	0.0	0.0	0.0
20°	1192.3	959.1	621.4	52.9	0.0	0.0	0.0	0.0
22.5°	1149.0	885.8	530.0	28.8	0.0	0.0	0.0	0.0
25°	1068.5	782.4	423.1	13.2	0.0	0.0	0.0	0.0
27.5°	937.5	649.0	318.5	4.8	0.0	0.0	0.0	0.0
30°	788.4	506.0	226.0	1.2	0.0	0.0	0.0	0.0
32.5°	615.4	372.6	145.4	0.0	0.0	0.0	0.0	0.0
35°	462.7	260.8	86.5	0.0	0.0	0.0	0.0	0.0
37.5°	322.1	164.7	45.7	0.0	0.0	0.0	0.0	0.0
40°	200.7	88.9	15.6	0.0	0.0	0.0	0.0	0.0
42.5°	111.8	31.2	1.2	0.0	0.0	0.0	0.0	0.0
45°	26.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.2	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	1.2	0.0	0.0	0.0	0.0
60°	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0
62.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
65°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
67.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
70°	1.2	1.2	1.2	2.4	1.2	0.0	0.0	0.0
72.5°	1.2	1.2	2.4	2.4	1.2	0.0	0.0	0.0
75°	1.2	1.2	2.4	2.4	1.2	0.0	0.0	0.0
77.5°	1.2	2.4	2.4	2.4	1.2	1.2	0.0	0.0
80°	1.2	2.4	2.4	2.4	2.4	1.2	0.0	0.0
82.5°	1.2	2.4	2.4	2.4	2.4	1.2	0.0	0.0
85°	1.2	2.4	2.4	2.4	1.2	1.2	0.0	0.0
87.5°	1.2	2.4	2.4	2.4	2.4	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)