

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: P1311516

Luminaire Tested: P3SQAS17R459050DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311516
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: P3SQAS17R459050DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

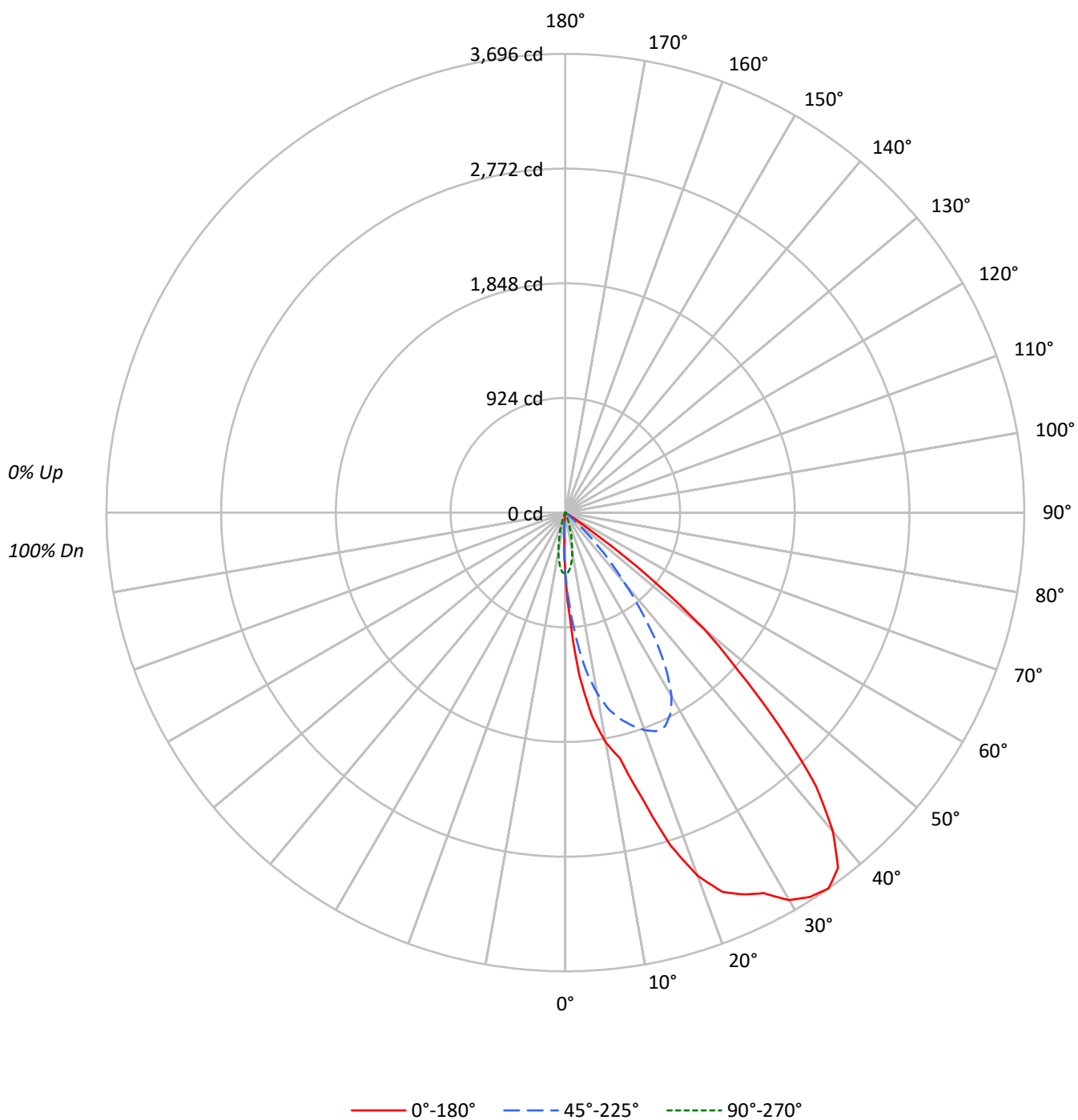
Lumens per Lamp: N/A
Luminaire Lumens: 1567.0 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1311516

CATALOG NUMBER: P3SQAS17R459050DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311516

CATALOG NUMBER: P3SQAS17R459050DE010 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	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°	83821	83821	83821	83821	83821
5°	228825	176044	77571	15559	5843
10°	328633	258279	56084	1469	1224
15°	423083	307207	29847	499	0
20°	570225	341827	11345	0	0
25°	644950	361108	2945	0	0
30°	716910	340418	278	0	0
35°	777150	271468	0	0	0
40°	753239	170437	0	0	0
45°	597111	81203	0	0	0
50°	390804	10181	0	0	0
55°	67138	0	0	0	0
60°	0	0	482	0	0
65°	0	571	571	0	0
70°	0	705	1410	0	0
75°	0	932	1863	0	0
80°	0	1389	2777	1389	0
85°	0	2766	5533	2766	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 597111 cd/sqm

TEST NUMBER: P1311516

CATALOG NUMBER: P3SQAS17R459050DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	3.7
10°-20°	223.2	14.2
20°-30°	417.9	26.7
30°-40°	487.8	31.1
40°-50°	318.1	20.3
50°-60°	59.1	3.8
60°-70°	0.6	0.0
70°-80°	1.1	0.1
80°-90°	1.3	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°	699.1	44.6
0°-40°	1186.8	75.7
0°-60°	1564.0	99.8
0°-90°	1567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1567.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	487	487	487	487	487	
5°	1324	1018	449	90	34	142
15°	2373	1723	167	3	0	707
25°	3394	1900	16	0	0	1570
35°	3696	1291	0	0	0	2267
45°	2452	333	0	0	0	1864
55°	224	0	0	0	0	389
65°	0	1	1	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	1	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1311516

CATALOG NUMBER: P3SQAS17R459050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7
2.5°	858.0	865.0	851.0	845.3	827.1	831.3	800.3	787.7	768.0	735.6	720.2
5°	1323.6	1310.9	1299.7	1275.7	1261.7	1223.7	1181.5	1133.7	1076.0	1018.3	952.2
7.5°	1655.5	1645.7	1641.5	1621.8	1593.6	1554.2	1499.4	1438.9	1364.4	1287.0	1187.1
10°	1879.2	1869.3	1852.4	1832.7	1810.2	1777.9	1724.4	1658.3	1576.7	1476.9	1360.1
12.5°	2025.4	2024.0	1995.9	1973.4	1945.3	1917.1	1862.3	1808.8	1728.7	1626.0	1493.8
15°	2372.9	2350.4	2313.8	2250.5	2171.7	2098.6	2010.0	1925.6	1838.4	1723.0	1575.3
17.5°	2806.1	2780.8	2718.9	2638.7	2512.1	2372.9	2221.0	2087.3	1956.5	1800.4	1626.0
20°	3111.3	3101.5	3049.4	2956.6	2821.6	2637.3	2437.6	2249.1	2064.8	1865.1	1649.9
22.5°	3306.8	3301.2	3280.1	3216.8	3079.0	2872.2	2614.8	2361.6	2139.4	1905.9	1642.9
25°	3394.0	3401.1	3403.9	3372.9	3261.8	3050.8	2745.6	2447.4	2181.6	1900.3	1589.4
27.5°	3455.9	3455.9	3467.2	3453.1	3340.6	3118.3	2796.2	2476.9	2167.5	1831.3	1476.9
30°	3605.0	3602.2	3609.2	3571.2	3415.1	3139.4	2773.7	2429.1	2087.3	1711.8	1315.1
32.5°	3669.7	3672.5	3671.1	3610.6	3429.2	3125.4	2718.9	2337.7	1939.6	1524.7	1101.3
35°	3696.4	3683.8	3631.7	3493.9	3264.6	2938.3	2564.2	2183.0	1732.9	1291.2	869.3
37.5°	3607.8	3571.2	3455.9	3267.4	2987.5	2673.9	2308.2	1905.9	1458.6	1012.7	654.0
40°	3350.4	3302.6	3157.7	2929.9	2673.9	2391.1	2005.7	1581.0	1140.7	758.1	458.5
42.5°	2986.1	2931.3	2775.1	2576.8	2343.3	2046.5	1662.5	1237.8	835.5	523.2	291.2
45°	2451.6	2420.7	2330.7	2163.3	1934.0	1626.0	1274.3	903.0	578.1	333.4	149.1
47.5°	1896.0	1856.7	1792.0	1676.6	1485.3	1192.8	891.8	613.3	371.3	164.6	30.9
50°	1458.6	1412.2	1333.4	1205.4	1005.7	796.1	578.1	382.6	188.5	38.0	1.4
52.5°	839.7	849.6	811.6	730.0	618.9	476.8	334.8	192.7	42.2	1.4	0.0
55°	223.6	241.9	236.3	254.6	223.6	188.5	139.2	36.6	2.8	0.0	0.0
57.5°	0.0	0.0	1.4	2.8	8.4	12.7	4.2	1.4	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	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
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: P1311516

CATALOG NUMBER: P3SQAS17R459050DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	486.7	486.7	486.7	486.7	486.7	486.7	486.7	486.7
2.5°	685.0	655.5	618.9	483.9	364.3	261.6	204.0	188.5
5°	888.9	817.2	724.4	448.7	225.0	90.0	40.8	33.8
7.5°	1081.6	976.2	808.8	392.4	113.9	22.5	11.3	9.8
10°	1230.7	1088.7	870.7	320.7	42.2	8.4	7.0	7.0
12.5°	1333.4	1160.4	893.2	243.3	15.5	4.2	4.2	2.8
15°	1392.5	1188.5	872.1	167.4	5.6	2.8	0.0	0.0
17.5°	1410.8	1177.3	815.8	105.5	1.4	0.0	0.0	0.0
20°	1395.3	1122.4	727.2	61.9	0.0	0.0	0.0	0.0
22.5°	1344.7	1036.6	620.3	33.8	0.0	0.0	0.0	0.0
25°	1250.4	915.7	495.1	15.5	0.0	0.0	0.0	0.0
27.5°	1097.1	759.5	372.7	5.6	0.0	0.0	0.0	0.0
30°	922.7	592.2	264.4	1.4	0.0	0.0	0.0	0.0
32.5°	720.2	436.0	170.2	0.0	0.0	0.0	0.0	0.0
35°	541.5	305.2	101.3	0.0	0.0	0.0	0.0	0.0
37.5°	377.0	192.7	53.4	0.0	0.0	0.0	0.0	0.0
40°	234.9	104.1	18.3	0.0	0.0	0.0	0.0	0.0
42.5°	130.8	36.6	1.4	0.0	0.0	0.0	0.0	0.0
45°	30.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.4	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	1.4	0.0	0.0	0.0	0.0
60°	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0
62.5°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
65°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
67.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
70°	1.4	1.4	1.4	2.8	1.4	0.0	0.0	0.0
72.5°	1.4	1.4	2.8	2.8	1.4	0.0	0.0	0.0
75°	1.4	1.4	2.8	2.8	1.4	0.0	0.0	0.0
77.5°	1.4	2.8	2.8	2.8	1.4	1.4	0.0	0.0
80°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
82.5°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
85°	1.4	2.8	2.8	2.8	1.4	1.4	0.0	0.0
87.5°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)