

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: P1312623

Luminaire Tested: P3SQAS17R459727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312623
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: P3SQAS17R459727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

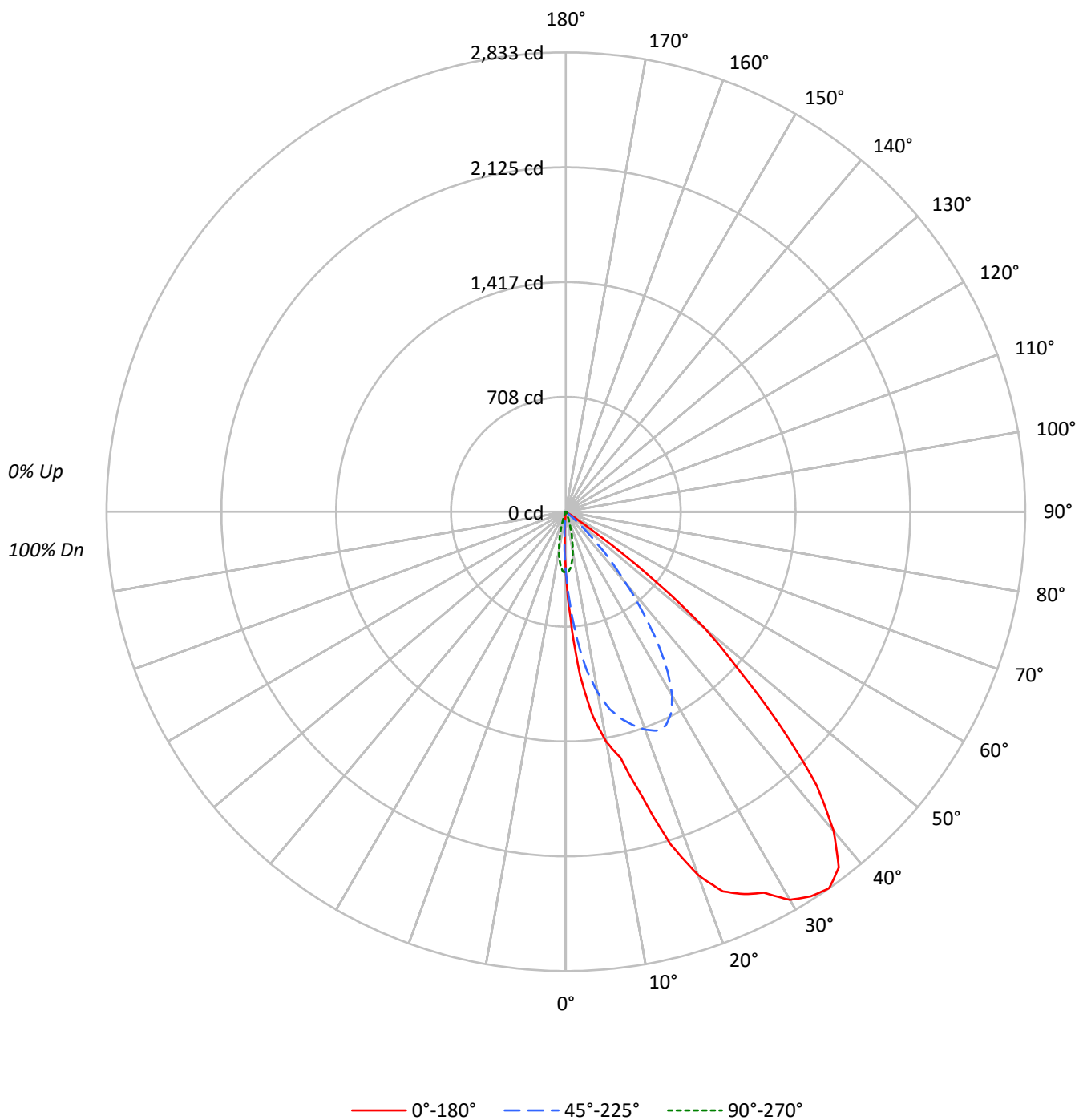
Lumens per Lamp: N/A
Luminaire Lumens: 1201.1 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1312623

CATALOG NUMBER: P3SQAS17R459727DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1312623

CATALOG NUMBER: P3SQAS17R459727DE010 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°	64239	64239	64239	64239	64239
5°	175370	134933	59454	11929	4478
10°	251861	197946	42985	1137	944
15°	324253	235460	22876	392	0
20°	437039	261992	8687	0	0
25°	494316	276755	2261	0	0
30°	549466	260912	219	0	0
35°	595645	208058	0	0	0
40°	577317	130643	0	0	0
45°	457648	62229	0	0	0
50°	299520	7797	0	0	0
55°	51465	0	0	0	0
60°	0	0	379	0	0
65°	0	448	448	0	0
70°	0	554	1108	0	0
75°	0	732	1464	0	0
80°	0	1091	2182	1091	0
85°	0	2174	4347	2174	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 457648 cd/sqm

TEST NUMBER: P1312623

CATALOG NUMBER: P3SQAS17R459727DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	3.7
10°-20°	171.1	14.2
20°-30°	320.3	26.7
30°-40°	373.8	31.1
40°-50°	243.8	20.3
50°-60°	45.3	3.8
60°-70°	0.4	0.0
70°-80°	0.9	0.1
80°-90°	1.0	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°	535.8	44.6
0°-40°	909.6	75.7
0°-60°	1198.7	99.8
0°-90°	1201.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1201.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	373	373	373	373	373	
5°	1014	780	344	69	26	109
15°	1819	1321	128	2	0	542
25°	2601	1456	12	0	0	1203
35°	2833	990	0	0	0	1738
45°	1879	256	0	0	0	1429
55°	171	0	0	0	0	298
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: P1312623

CATALOG NUMBER: P3SQAS17R459727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0
2.5°	657.6	663.0	652.2	647.9	633.9	637.1	613.4	603.7	588.6	563.8	552.0
5°	1014.4	1004.7	996.1	977.8	967.0	937.9	905.5	868.9	824.7	780.5	729.8
7.5°	1268.8	1261.3	1258.1	1243.0	1221.4	1191.2	1149.2	1102.8	1045.7	986.4	909.9
10°	1440.2	1432.7	1419.8	1404.7	1387.4	1362.6	1321.7	1271.0	1208.5	1131.9	1042.5
12.5°	1552.4	1551.3	1529.7	1512.5	1490.9	1469.4	1427.3	1386.3	1324.9	1246.2	1144.9
15°	1818.6	1801.4	1773.4	1724.8	1664.5	1608.4	1540.5	1475.8	1409.0	1320.6	1207.4
17.5°	2150.7	2131.3	2083.8	2022.4	1925.4	1818.6	1702.2	1599.8	1499.5	1379.9	1246.2
20°	2384.6	2377.1	2337.2	2266.0	2162.5	2021.3	1868.2	1723.8	1582.5	1429.5	1264.5
22.5°	2534.5	2530.1	2514.0	2465.5	2359.8	2201.3	2004.1	1810.0	1639.7	1460.7	1259.1
25°	2601.3	2606.7	2608.8	2585.1	2500.0	2338.2	2104.3	1875.8	1672.0	1456.4	1218.2
27.5°	2648.7	2648.7	2657.3	2646.6	2560.3	2390.0	2143.1	1898.4	1661.2	1403.6	1131.9
30°	2763.0	2760.8	2766.2	2737.1	2617.5	2406.2	2125.9	1861.8	1599.8	1312.0	1008.0
32.5°	2812.6	2814.7	2813.7	2767.3	2628.2	2395.4	2083.8	1791.7	1486.6	1168.6	844.1
35°	2833.1	2823.4	2783.5	2677.8	2502.1	2252.0	1965.3	1673.1	1328.1	989.6	666.2
37.5°	2765.1	2737.1	2648.7	2504.3	2289.7	2049.3	1769.0	1460.7	1117.9	776.2	501.3
40°	2567.9	2531.2	2420.2	2245.5	2049.3	1832.7	1537.3	1211.7	874.3	581.1	351.4
42.5°	2288.7	2246.6	2127.0	1975.0	1796.0	1568.5	1274.2	948.7	640.4	401.0	223.2
45°	1879.0	1855.3	1786.3	1658.0	1482.3	1246.2	976.7	692.1	443.1	255.5	114.3
47.5°	1453.2	1423.0	1373.4	1285.0	1138.4	914.2	683.5	470.0	284.6	126.1	23.7
50°	1117.9	1082.3	1022.0	923.9	770.8	610.2	443.1	293.2	144.5	29.1	1.1
52.5°	643.6	651.1	622.0	559.5	474.3	365.5	256.6	147.7	32.3	1.1	0.0
55°	171.4	185.4	181.1	195.1	171.4	144.5	106.7	28.0	2.2	0.0	0.0
57.5°	0.0	0.0	1.1	2.2	6.5	9.7	3.2	1.1	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	1.1	1.1
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
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: P1312623

CATALOG NUMBER: P3SQAS17R459727DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	373.0	373.0	373.0	373.0	373.0	373.0	373.0	373.0
2.5°	525.0	502.4	474.3	370.8	279.2	200.5	156.3	144.5
5°	681.3	626.3	555.2	343.9	172.5	69.0	31.3	25.9
7.5°	829.0	748.2	619.9	300.8	87.3	17.2	8.6	7.5
10°	943.3	834.4	667.3	245.8	32.3	6.5	5.4	5.4
12.5°	1022.0	889.4	684.5	186.5	11.9	3.2	3.2	2.2
15°	1067.3	910.9	668.4	128.3	4.3	2.2	0.0	0.0
17.5°	1081.3	902.3	625.3	80.9	1.1	0.0	0.0	0.0
20°	1069.4	860.3	557.3	47.4	0.0	0.0	0.0	0.0
22.5°	1030.6	794.5	475.4	25.9	0.0	0.0	0.0	0.0
25°	958.4	701.8	379.5	11.9	0.0	0.0	0.0	0.0
27.5°	840.9	582.1	285.7	4.3	0.0	0.0	0.0	0.0
30°	707.2	453.9	202.7	1.1	0.0	0.0	0.0	0.0
32.5°	552.0	334.2	130.4	0.0	0.0	0.0	0.0	0.0
35°	415.0	233.9	77.6	0.0	0.0	0.0	0.0	0.0
37.5°	288.9	147.7	41.0	0.0	0.0	0.0	0.0	0.0
40°	180.0	79.8	14.0	0.0	0.0	0.0	0.0	0.0
42.5°	100.3	28.0	1.1	0.0	0.0	0.0	0.0	0.0
45°	23.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.1	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	1.1	0.0	0.0	0.0	0.0
60°	0.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0
62.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
65°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
67.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
70°	1.1	1.1	1.1	2.2	1.1	0.0	0.0	0.0
72.5°	1.1	1.1	2.2	2.2	1.1	0.0	0.0	0.0
75°	1.1	1.1	2.2	2.2	1.1	0.0	0.0	0.0
77.5°	1.1	2.2	2.2	2.2	1.1	1.1	0.0	0.0
80°	1.1	2.2	2.2	2.2	2.2	1.1	0.0	0.0
82.5°	1.1	2.2	2.2	2.2	2.2	1.1	0.0	0.0
85°	1.1	2.2	2.2	2.2	1.1	1.1	0.0	0.0
87.5°	1.1	2.2	2.2	2.2	2.2	1.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)