

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: P1316426

Luminaire Tested: P3SQAS17R459827DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316426
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: P3SQAS17R459827DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

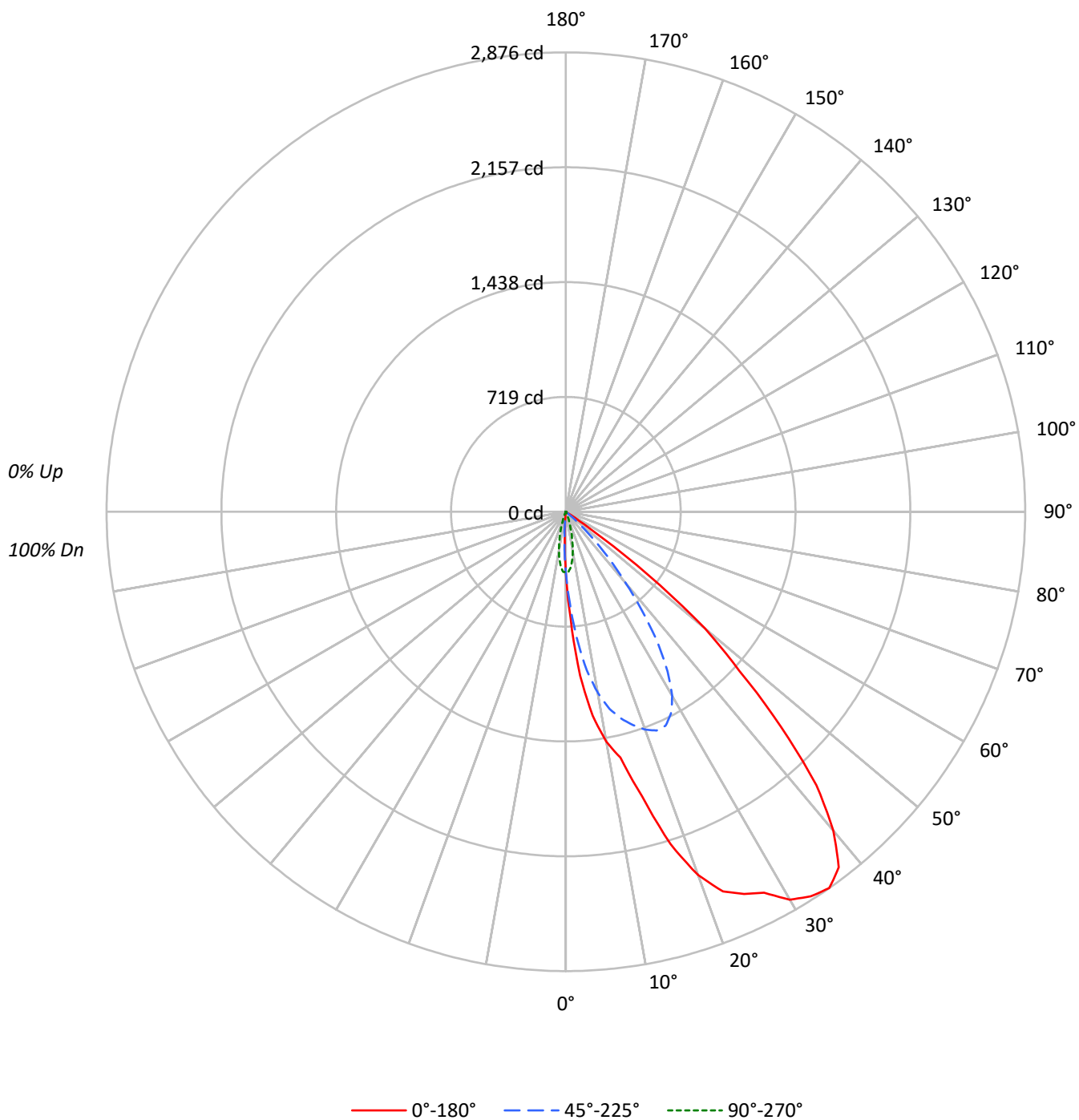
Lumens per Lamp: N/A
Luminaire Lumens: 1219.0 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1316426

CATALOG NUMBER: P3SQAS17R459827DE010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1316426

CATALOG NUMBER: P3SQAS17R459827DE010 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°	65203	65203	65203	65203	65203
5°	177998	136956	60335	12102	4547
10°	255639	200919	43632	1154	962
15°	329120	238991	23214	392	0
20°	443582	265914	8816	0	0
25°	501727	280897	2280	0	0
30°	557699	264809	219	0	0
35°	604560	211191	0	0	0
40°	585973	132599	0	0	0
45°	464517	63155	0	0	0
50°	304021	7904	0	0	0
55°	52245	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: 464517 cd/sqm

TEST NUMBER: P1316426

CATALOG NUMBER: P3SQAS17R459827DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	3.7
10°-20°	173.7	14.2
20°-30°	325.1	26.7
30°-40°	379.5	31.1
40°-50°	247.5	20.3
50°-60°	45.9	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°	543.8	44.6
0°-40°	923.3	75.7
0°-60°	1216.7	99.8
0°-90°	1219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1219.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	379	379	379	379	379	
5°	1030	792	349	70	26	110
15°	1846	1340	130	2	0	550
25°	2640	1478	12	0	0	1221
35°	2876	1004	0	0	0	1764
45°	1907	259	0	0	0	1450
55°	174	0	0	0	0	302
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: P1316426

CATALOG NUMBER: P3SQAS17R459827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6
2.5°	667.5	672.9	662.0	657.6	643.4	646.7	622.6	612.7	597.4	572.3	560.2
5°	1029.6	1019.8	1011.0	992.4	981.5	951.9	919.1	881.9	837.1	792.2	740.8
7.5°	1287.9	1280.2	1276.9	1261.6	1239.7	1209.1	1166.4	1119.4	1061.4	1001.2	923.5
10°	1461.8	1454.2	1441.0	1425.7	1408.2	1383.1	1341.5	1290.0	1226.6	1148.9	1058.1
12.5°	1575.6	1574.5	1552.7	1535.1	1513.3	1491.4	1448.7	1407.1	1344.8	1264.9	1162.0
15°	1845.9	1828.4	1799.9	1750.7	1689.4	1632.5	1563.6	1497.9	1430.1	1340.4	1225.5
17.5°	2182.9	2163.2	2115.1	2052.7	1954.2	1845.9	1727.7	1623.8	1522.0	1400.6	1264.9
20°	2420.3	2412.7	2372.2	2300.0	2194.9	2051.6	1896.2	1749.6	1606.3	1450.9	1283.5
22.5°	2572.4	2568.1	2551.6	2502.4	2395.2	2234.3	2034.1	1837.1	1664.3	1482.6	1278.0
25°	2640.3	2645.7	2647.9	2623.9	2537.4	2373.3	2135.9	1903.9	1697.1	1478.2	1236.4
27.5°	2688.4	2688.4	2697.2	2686.2	2598.7	2425.8	2175.2	1926.9	1686.1	1424.6	1148.9
30°	2804.4	2802.2	2807.7	2778.1	2656.7	2442.2	2157.7	1889.7	1623.8	1331.6	1023.1
32.5°	2854.7	2856.9	2855.8	2808.8	2667.6	2431.3	2115.1	1818.5	1508.9	1186.1	856.7
35°	2875.5	2865.7	2825.2	2718.0	2539.6	2285.8	1994.7	1698.2	1348.0	1004.5	676.2
37.5°	2806.6	2778.1	2688.4	2541.8	2324.1	2080.1	1795.6	1482.6	1134.7	787.8	508.8
40°	2606.4	2569.2	2456.5	2279.2	2080.1	1860.1	1560.3	1229.9	887.4	589.8	356.7
42.5°	2323.0	2280.3	2158.8	2004.6	1822.9	1592.0	1293.3	962.9	649.9	407.0	226.5
45°	1907.2	1883.1	1813.1	1682.9	1504.5	1264.9	991.3	702.5	449.7	259.3	116.0
47.5°	1475.0	1444.3	1394.0	1304.3	1155.5	927.9	693.7	477.1	288.9	128.0	24.1
50°	1134.7	1098.6	1037.3	937.7	782.3	619.3	449.7	297.6	146.6	29.5	1.1
52.5°	653.2	660.9	631.3	567.9	481.4	370.9	260.4	149.9	32.8	1.1	0.0
55°	174.0	188.2	183.8	198.0	174.0	146.6	108.3	28.4	2.2	0.0	0.0
57.5°	0.0	0.0	1.1	2.2	6.6	9.8	3.3	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: P1316426

CATALOG NUMBER: P3SQAS17R459827DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6
2.5°	532.9	509.9	481.4	376.4	283.4	203.5	158.7	146.6
5°	691.5	635.7	563.5	349.0	175.1	70.0	31.7	26.3
7.5°	841.4	759.4	629.2	305.3	88.6	17.5	8.8	7.7
10°	957.4	846.9	677.3	249.5	32.8	6.6	5.5	5.5
12.5°	1037.3	902.7	694.8	189.3	12.0	3.3	3.3	2.2
15°	1083.2	924.6	678.4	130.2	4.4	2.2	0.0	0.0
17.5°	1097.5	915.8	634.6	82.1	1.1	0.0	0.0	0.0
20°	1085.4	873.2	565.7	48.1	0.0	0.0	0.0	0.0
22.5°	1046.0	806.4	482.5	26.3	0.0	0.0	0.0	0.0
25°	972.7	712.3	385.2	12.0	0.0	0.0	0.0	0.0
27.5°	853.5	590.9	290.0	4.4	0.0	0.0	0.0	0.0
30°	717.8	460.7	205.7	1.1	0.0	0.0	0.0	0.0
32.5°	560.2	339.2	132.4	0.0	0.0	0.0	0.0	0.0
35°	421.3	237.4	78.8	0.0	0.0	0.0	0.0	0.0
37.5°	293.2	149.9	41.6	0.0	0.0	0.0	0.0	0.0
40°	182.7	81.0	14.2	0.0	0.0	0.0	0.0	0.0
42.5°	101.8	28.4	1.1	0.0	0.0	0.0	0.0	0.0
45°	24.1	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)