

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: P1314421

Luminaire Tested: P3SQAS13R459735DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314421
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: P3SQAS13R459735DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

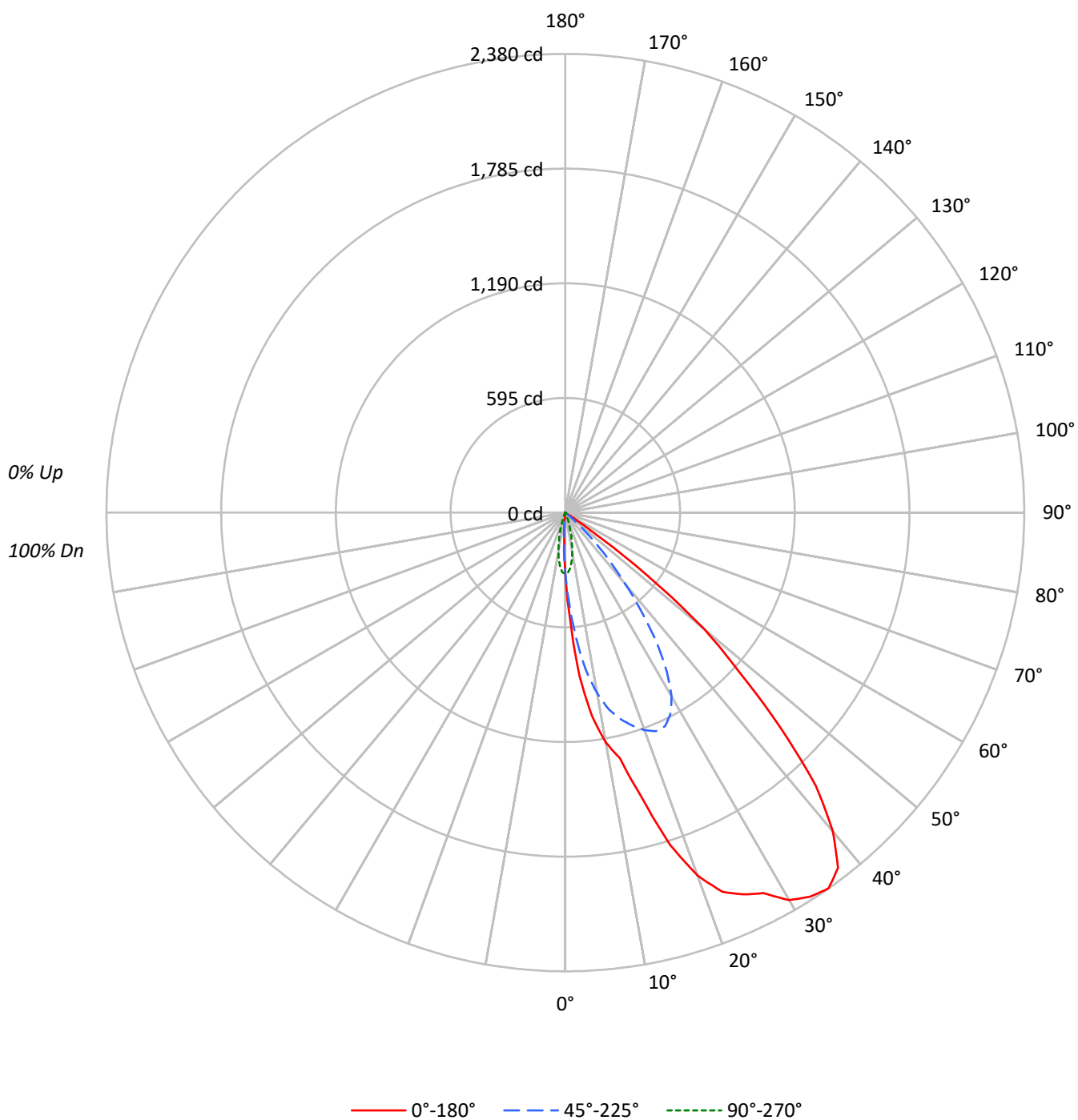
Lumens per Lamp: N/A
Luminaire Lumens: 1009.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P1314421

CATALOG NUMBER: P3SQAS13R459735DE010 E3SQCA301MMS

Luminous Intensity Polar Plot





TEST NUMBER: P1314421

CATALOG NUMBER: P3SQAS13R459735DE010 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°	53975	53975	53975	53975	53975
5°	147346	113358	49945	10027	3752
10°	211604	166310	36113	944	787
15°	272422	197822	19221	321	0
20°	367174	220096	7313	0	0
25°	415284	232517	1900	0	0
30°	461627	219190	179	0	0
35°	500425	174798	0	0	0
40°	485028	109757	0	0	0
45°	384483	52268	0	0	0
50°	251641	6564	0	0	0
55°	43238	0	0	0	0
60°	0	0	310	0	0
65°	0	367	367	0	0
70°	0	453	906	0	0
75°	0	599	1198	0	0
80°	0	893	1785	893	0
85°	0	1778	3557	1778	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 384483 cd/sqm

TEST NUMBER: P1314421

CATALOG NUMBER: P3SQAS13R459735DE010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	3.7
10°-20°	143.7	14.2
20°-30°	269.1	26.7
30°-40°	314.1	31.1
40°-50°	204.8	20.3
50°-60°	38.0	3.8
60°-70°	0.4	0.0
70°-80°	0.7	0.1
80°-90°	0.8	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°	450.1	44.6
0°-40°	764.2	75.7
0°-60°	1007.1	99.8
0°-90°	1009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	313	313	313	313	313	
5°	852	656	289	58	22	91
15°	1528	1110	108	2	0	455
25°	2185	1224	10	0	0	1011
35°	2380	831	0	0	0	1460
45°	1579	215	0	0	0	1200
55°	144	0	0	0	0	250
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: P1314421

CATALOG NUMBER: P3SQAS13R459735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4
2.5°	552.5	557.0	547.9	544.3	532.5	535.3	515.3	507.2	494.5	473.7	463.7
5°	852.3	844.1	836.9	821.5	812.4	787.9	760.8	730.0	692.9	655.7	613.2
7.5°	1066.0	1059.7	1056.9	1044.3	1026.1	1000.8	965.5	926.5	878.5	828.7	764.4
10°	1210.0	1203.7	1192.8	1180.1	1165.6	1144.8	1110.4	1067.8	1015.3	951.0	875.8
12.5°	1304.2	1303.3	1285.2	1270.7	1252.6	1234.5	1199.1	1164.7	1113.1	1047.0	961.8
15°	1527.9	1513.4	1489.9	1449.1	1398.4	1351.3	1294.2	1239.9	1183.7	1109.5	1014.4
17.5°	1806.9	1790.5	1750.7	1699.1	1617.6	1527.9	1430.1	1344.0	1259.8	1159.3	1047.0
20°	2003.4	1997.0	1963.5	1903.8	1816.8	1698.2	1569.6	1448.2	1329.6	1200.9	1062.4
22.5°	2129.3	2125.7	2112.1	2071.3	1982.6	1849.4	1683.7	1520.7	1377.6	1227.2	1057.8
25°	2185.4	2190.0	2191.8	2171.8	2100.3	1964.4	1767.9	1575.9	1404.7	1223.6	1023.4
27.5°	2225.3	2225.3	2232.5	2223.5	2151.0	2007.9	1800.5	1594.9	1395.7	1179.2	951.0
30°	2321.3	2319.5	2324.0	2299.5	2199.0	2021.5	1786.0	1564.1	1344.0	1102.2	846.8
32.5°	2362.9	2364.8	2363.8	2324.9	2208.1	2012.4	1750.7	1505.3	1248.9	981.8	709.2
35°	2380.2	2372.0	2338.5	2249.7	2102.1	1892.0	1651.1	1405.6	1115.8	831.4	559.7
37.5°	2323.1	2299.5	2225.3	2103.9	1923.7	1721.7	1486.2	1227.2	939.2	652.1	421.1
40°	2157.4	2126.6	2033.3	1886.6	1721.7	1539.7	1291.5	1018.0	734.5	488.2	295.3
42.5°	1922.8	1887.5	1786.9	1659.2	1508.9	1317.8	1070.5	797.0	538.0	336.9	187.5
45°	1578.6	1558.7	1500.7	1393.0	1245.3	1047.0	820.6	581.5	372.2	214.6	96.0
47.5°	1220.9	1195.5	1153.8	1079.6	956.4	768.0	574.2	394.9	239.1	106.0	19.9
50°	939.2	909.3	858.6	776.2	647.6	512.6	372.2	246.3	121.4	24.5	0.9
52.5°	540.7	547.0	522.6	470.1	398.5	307.0	215.6	124.1	27.2	0.9	0.0
55°	144.0	155.8	152.2	163.9	144.0	121.4	89.7	23.5	1.8	0.0	0.0
57.5°	0.0	0.0	0.9	1.8	5.4	8.2	2.7	0.9	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	0.9	0.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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: P1314421

CATALOG NUMBER: P3SQAS13R459735DE010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	313.4	313.4	313.4	313.4	313.4	313.4	313.4	313.4
2.5°	441.1	422.1	398.5	311.6	234.6	168.5	131.3	121.4
5°	572.4	526.2	466.4	288.9	144.9	58.0	26.3	21.7
7.5°	696.5	628.5	520.8	252.7	73.4	14.5	7.2	6.3
10°	792.5	701.0	560.6	206.5	27.2	5.4	4.5	4.5
12.5°	858.6	747.2	575.1	156.7	10.0	2.7	2.7	1.8
15°	896.6	765.3	561.5	107.8	3.6	1.8	0.0	0.0
17.5°	908.4	758.1	525.3	67.9	0.9	0.0	0.0	0.0
20°	898.4	722.7	468.2	39.9	0.0	0.0	0.0	0.0
22.5°	865.8	667.5	399.4	21.7	0.0	0.0	0.0	0.0
25°	805.2	589.6	318.8	10.0	0.0	0.0	0.0	0.0
27.5°	706.4	489.1	240.0	3.6	0.0	0.0	0.0	0.0
30°	594.1	381.3	170.3	0.9	0.0	0.0	0.0	0.0
32.5°	463.7	280.8	109.6	0.0	0.0	0.0	0.0	0.0
35°	348.7	196.5	65.2	0.0	0.0	0.0	0.0	0.0
37.5°	242.7	124.1	34.4	0.0	0.0	0.0	0.0	0.0
40°	151.3	67.0	11.8	0.0	0.0	0.0	0.0	0.0
42.5°	84.2	23.5	0.9	0.0	0.0	0.0	0.0	0.0
45°	19.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.9	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	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0
62.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
65°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
67.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
70°	0.9	0.9	0.9	1.8	0.9	0.0	0.0	0.0
72.5°	0.9	0.9	1.8	1.8	0.9	0.0	0.0	0.0
75°	0.9	0.9	1.8	1.8	0.9	0.0	0.0	0.0
77.5°	0.9	1.8	1.8	1.8	0.9	0.9	0.0	0.0
80°	0.9	1.8	1.8	1.8	1.8	0.9	0.0	0.0
82.5°	0.9	1.8	1.8	1.8	1.8	0.9	0.0	0.0
85°	0.9	1.8	1.8	1.8	0.9	0.9	0.0	0.0
87.5°	0.9	1.8	1.8	1.8	1.8	0.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)