

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: P1312477

Luminaire Tested: P3SQAS13R459727DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312477
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: P3SQAS13R459727DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

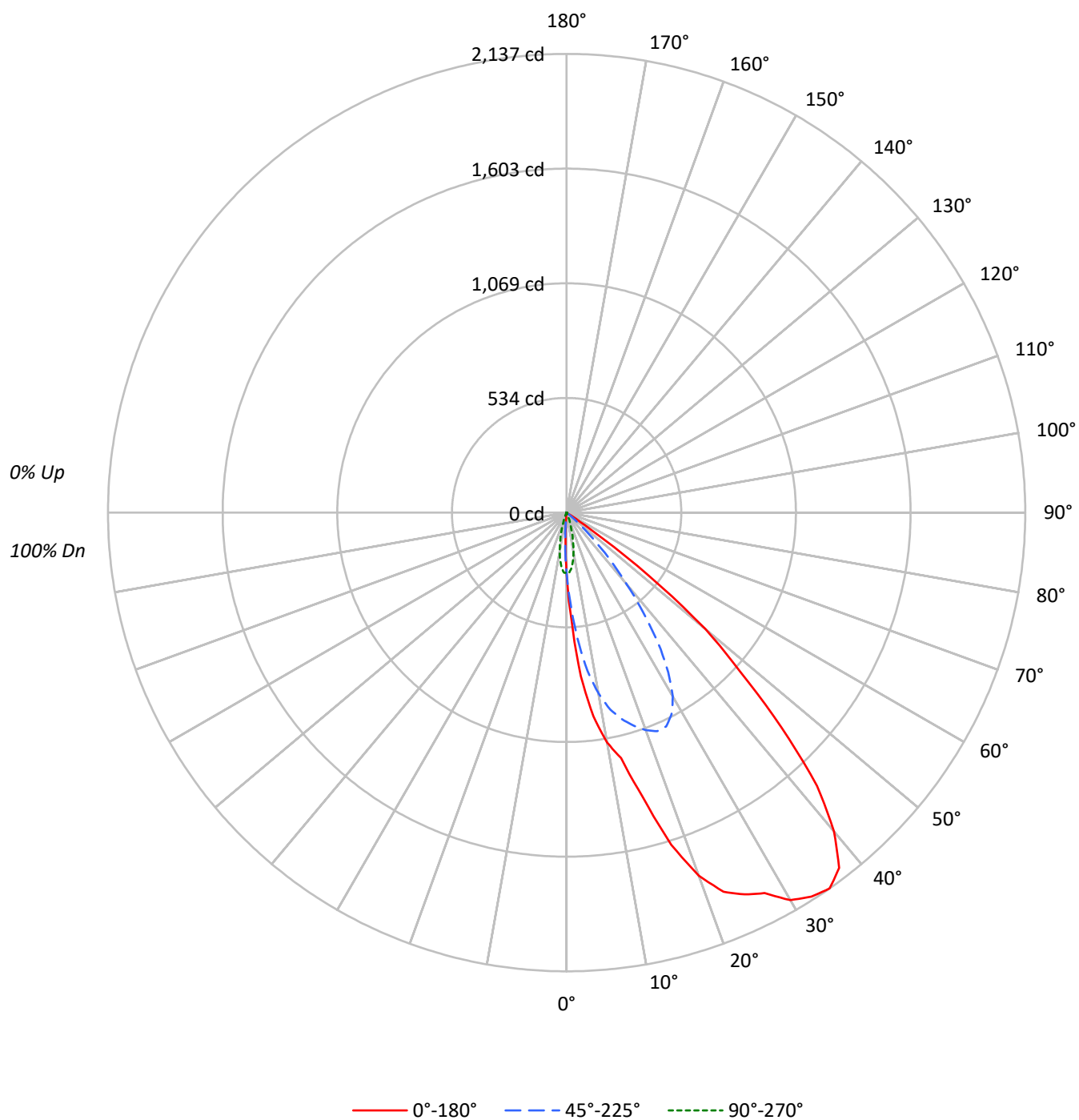
Lumens per Lamp: N/A
Luminaire Lumens: 906.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
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°	48463	48463	48463	48463	48463
5°	132305	101792	44845	8990	3371
10°	190007	149330	32423	857	717
15°	244607	177620	17259	285	0
20°	329694	197644	6561	0	0
25°	372889	208782	1691	0	0
30°	414496	196817	159	0	0
35°	449336	156969	0	0	0
40°	435500	98539	0	0	0
45°	345246	46934	0	0	0
50°	225946	5894	0	0	0
55°	38824	0	0	0	0
60°	0	0	276	0	0
65°	0	326	326	0	0
70°	0	403	806	0	0
75°	0	532	1065	0	0
80°	0	793	1587	793	0
85°	0	1581	3162	1581	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 345246 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	3.7
10°-20°	129.1	14.2
20°-30°	241.6	26.7
30°-40°	282.0	31.1
40°-50°	183.9	20.3
50°-60°	34.1	3.8
60°-70°	0.3	0.0
70°-80°	0.7	0.1
80°-90°	0.7	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°	404.2	44.6
0°-40°	686.2	75.7
0°-60°	904.3	99.8
0°-90°	906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	906.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	281	281	281	281	281	
5°	765	589	259	52	20	82
15°	1372	996	97	2	0	409
25°	1962	1099	9	0	0	907
35°	2137	747	0	0	0	1311
45°	1418	193	0	0	0	1078
55°	129	0	0	0	0	225
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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	281.4	281.4	281.4	281.4	281.4	281.4	281.4	281.4	281.4	281.4	281.4
2.5°	496.1	500.1	492.0	488.8	478.2	480.6	462.7	455.4	444.0	425.3	416.4
5°	765.3	757.9	751.4	737.6	729.5	707.5	683.1	655.5	622.1	588.8	550.6
7.5°	957.2	951.5	949.0	937.7	921.4	898.6	866.9	831.9	788.8	744.1	686.4
10°	1086.5	1080.8	1071.0	1059.6	1046.6	1027.9	997.0	958.8	911.6	853.9	786.4
12.5°	1171.1	1170.2	1154.0	1141.0	1124.7	1108.4	1076.7	1045.8	999.5	940.1	863.7
15°	1371.9	1358.9	1337.8	1301.2	1255.6	1213.3	1162.1	1113.3	1062.9	996.2	910.8
17.5°	1622.4	1607.8	1572.0	1525.6	1452.4	1371.9	1284.1	1206.8	1131.2	1040.9	940.1
20°	1798.9	1793.2	1763.1	1709.4	1631.4	1524.8	1409.3	1300.4	1193.8	1078.4	953.9
22.5°	1911.9	1908.7	1896.5	1859.9	1780.2	1660.6	1511.8	1365.4	1236.9	1101.9	949.9
25°	1962.3	1966.4	1968.0	1950.1	1885.9	1763.9	1587.4	1415.0	1261.3	1098.7	919.0
27.5°	1998.1	1998.1	2004.6	1996.5	1931.4	1802.9	1616.7	1432.1	1253.2	1058.8	853.9
30°	2084.3	2082.7	2086.8	2064.8	1974.5	1815.1	1603.7	1404.5	1206.8	989.7	760.4
32.5°	2121.7	2123.4	2122.5	2087.6	1982.7	1807.0	1572.0	1351.6	1121.5	881.5	636.8
35°	2137.2	2129.9	2099.8	2020.1	1887.5	1698.8	1482.5	1262.1	1001.9	746.6	502.6
37.5°	2085.9	2064.8	1998.1	1889.1	1727.3	1546.0	1334.5	1101.9	843.3	585.5	378.2
40°	1937.1	1909.5	1825.7	1694.0	1546.0	1382.5	1159.7	914.1	659.5	438.3	265.1
42.5°	1726.5	1694.8	1604.5	1489.8	1354.9	1183.3	961.2	715.6	483.1	302.5	168.3
45°	1417.5	1399.6	1347.5	1250.8	1118.2	940.1	736.8	522.1	334.2	192.7	86.2
47.5°	1096.2	1073.5	1036.1	969.4	858.8	689.6	515.6	354.6	214.7	95.1	17.9
50°	843.3	816.5	770.9	696.9	581.5	460.3	334.2	221.2	109.0	22.0	0.8
52.5°	485.5	491.2	469.2	422.1	357.8	275.7	193.6	111.4	24.4	0.8	0.0
55°	129.3	139.9	136.6	147.2	129.3	109.0	80.5	21.1	1.6	0.0	0.0
57.5°	0.0	0.0	0.8	1.6	4.9	7.3	2.4	0.8	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	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	281.4	281.4	281.4	281.4	281.4	281.4	281.4	281.4
2.5°	396.0	379.0	357.8	279.8	210.6	151.3	117.9	109.0
5°	514.0	472.5	418.8	259.4	130.1	52.0	23.6	19.5
7.5°	625.4	564.4	467.6	226.9	65.9	13.0	6.5	5.7
10°	711.6	629.4	503.4	185.4	24.4	4.9	4.1	4.1
12.5°	770.9	670.9	516.4	140.7	8.9	2.4	2.4	1.6
15°	805.1	687.2	504.2	96.8	3.3	1.6	0.0	0.0
17.5°	815.7	680.7	471.7	61.0	0.8	0.0	0.0	0.0
20°	806.7	649.0	420.4	35.8	0.0	0.0	0.0	0.0
22.5°	777.5	599.4	358.6	19.5	0.0	0.0	0.0	0.0
25°	723.0	529.4	286.3	8.9	0.0	0.0	0.0	0.0
27.5°	634.3	439.1	215.5	3.3	0.0	0.0	0.0	0.0
30°	533.5	342.4	152.9	0.8	0.0	0.0	0.0	0.0
32.5°	416.4	252.1	98.4	0.0	0.0	0.0	0.0	0.0
35°	313.1	176.5	58.6	0.0	0.0	0.0	0.0	0.0
37.5°	217.9	111.4	30.9	0.0	0.0	0.0	0.0	0.0
40°	135.8	60.2	10.6	0.0	0.0	0.0	0.0	0.0
42.5°	75.6	21.1	0.8	0.0	0.0	0.0	0.0	0.0
45°	17.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.8	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	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
65°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
67.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
70°	0.8	0.8	0.8	1.6	0.8	0.0	0.0	0.0
72.5°	0.8	0.8	1.6	1.6	0.8	0.0	0.0	0.0
75°	0.8	0.8	1.6	1.6	0.8	0.0	0.0	0.0
77.5°	0.8	1.6	1.6	1.6	0.8	0.8	0.0	0.0
80°	0.8	1.6	1.6	1.6	1.6	0.8	0.0	0.0
82.5°	0.8	1.6	1.6	1.6	1.6	0.8	0.0	0.0
85°	0.8	1.6	1.6	1.6	0.8	0.8	0.0	0.0
87.5°	0.8	1.6	1.6	1.6	1.6	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)