

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: P1312865

Luminaire Tested: P3SQAS02R159730DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R159730DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

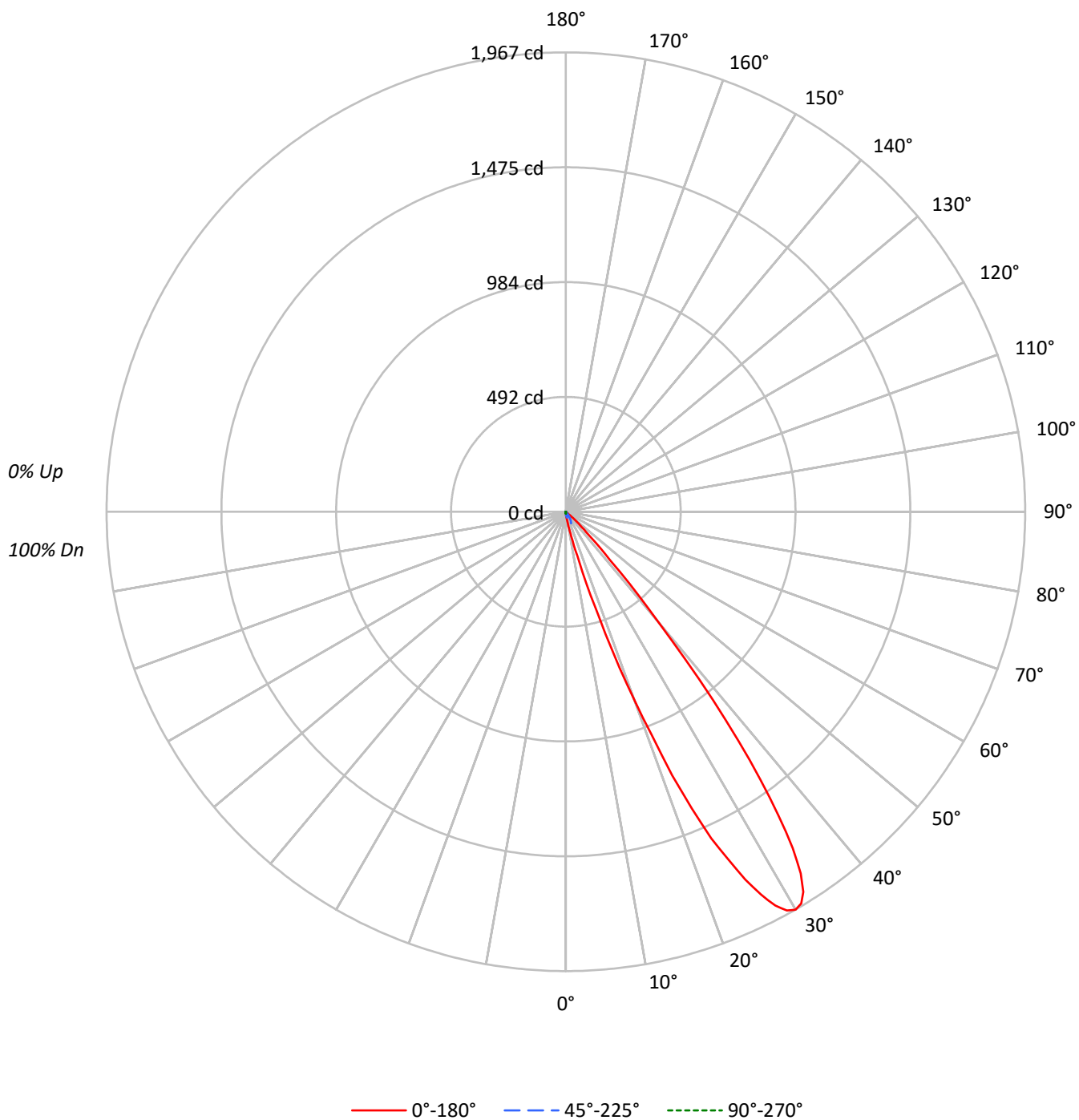
Lumens per Lamp: N/A
Luminaire Lumens: 208.0 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1274	1274	1274	1274	1274
5°	3700	2801	1089	449	294
10°	9636	4162	734	0	0
15°	38530	6829	392	0	0
20°	157415	10062	128	0	0
25°	311188	9976	0	0	0
30°	391129	7875	0	0	0
35°	333722	4836	0	0	0
40°	137388	1529	0	0	0
45°	29714	633	0	0	0
50°	3805	0	0	0	0
55°	330	0	60	0	0
60°	0	0	138	0	0
65°	0	0	163	0	0
70°	0	101	352	0	0
75°	0	133	466	0	0
80°	0	198	694	0	0
85°	0	395	1383	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 31103 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.0	0.5
10°-20°	14.6	7.0
20°-30°	85.0	40.9
30°-40°	91.1	43.8
40°-50°	15.4	7.4
50°-60°	0.5	0.2
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.2	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°	100.5	48.3
0°-40°	191.6	92.1
0°-60°	207.5	99.8
0°-90°	208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	208.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	21	16	6	3	2	3
15°	216	38	2	0	0	100
25°	1638	52	0	0	0	741
35°	1587	23	0	0	0	912
45°	122	3	0	0	0	144
55°	1	0	0	0	0	3
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
2.5°	13.6	13.8	14.0	14.0	14.0	14.0	13.8	13.8	13.8	13.8	13.6
5°	21.4	21.4	21.4	21.4	21.4	21.4	21.2	21.2	21.2	21.2	21.2
7.5°	30.6	30.2	30.4	29.7	30.2	30.0	29.7	30.2	30.2	29.1	29.1
10°	55.1	54.9	52.7	53.1	53.6	53.4	53.4	52.1	51.8	51.0	50.1
12.5°	106.3	108.7	110.5	110.5	106.3	107.8	105.0	105.6	106.1	104.8	100.2
15°	216.1	220.0	215.9	219.8	218.3	212.6	206.3	197.7	201.0	195.1	193.1
17.5°	473.3	482.3	478.6	460.4	466.3	452.3	443.6	440.3	431.1	403.8	392.4
20°	858.9	869.9	859.6	838.4	845.1	818.7	811.9	805.6	764.9	750.0	702.3
21°	1021.2	1030.2	1034.1	1012.0	998.5	977.5	960.0	954.3	929.6	900.9	851.9
22°	1217.2	1206.7	1183.1	1186.1	1166.0	1148.7	1124.5	1101.5	1073.9	1033.9	993.4
23°	1379.5	1367.2	1356.1	1342.5	1320.9	1308.6	1273.8	1248.7	1212.8	1170.0	1131.0
24°	1530.6	1511.8	1504.8	1480.8	1474.6	1447.1	1418.9	1386.0	1342.7	1297.0	1253.9
25°	1637.6	1640.4	1634.3	1631.5	1600.2	1572.0	1544.0	1493.4	1456.5	1416.0	1349.7
26°	1752.2	1753.5	1750.4	1729.4	1701.2	1673.7	1637.6	1593.6	1540.0	1495.2	1435.3
27°	1839.9	1834.7	1830.3	1805.3	1782.2	1747.4	1714.6	1662.5	1610.2	1556.9	1487.3
28°	1909.9	1900.0	1894.6	1873.1	1846.0	1803.4	1763.1	1714.6	1662.3	1605.0	1529.8
29°	1952.1	1941.6	1935.5	1911.9	1880.6	1843.2	1802.5	1749.1	1692.9	1629.1	1553.4
30°	1966.8	1960.6	1951.0	1926.5	1894.1	1855.2	1813.4	1755.5	1696.6	1631.2	1551.2
31°	1957.1	1949.3	1940.1	1913.6	1878.6	1841.4	1792.9	1732.1	1670.2	1607.8	1523.0
32°	1918.9	1914.0	1902.9	1867.5	1839.0	1790.9	1743.0	1686.1	1618.6	1551.6	1474.9
33°	1847.1	1839.2	1829.6	1797.2	1760.9	1714.8	1667.1	1608.9	1541.8	1471.1	1386.7
34°	1737.8	1727.7	1715.7	1694.0	1647.6	1607.6	1552.5	1484.5	1428.9	1361.1	1284.8
35°	1587.3	1572.6	1558.2	1541.8	1489.7	1452.8	1415.6	1356.3	1302.7	1238.8	1152.5
36°	1418.4	1412.7	1400.9	1357.6	1340.8	1290.5	1260.5	1192.5	1149.2	1086.6	1015.3
37°	1227.5	1194.0	1211.1	1186.8	1136.0	1120.3	1084.6	1026.2	979.4	913.4	861.8
38°	1022.7	1000.9	1012.9	988.4	961.9	925.6	898.5	855.9	803.4	751.5	702.5
39°	810.6	792.9	806.0	789.4	749.1	734.0	710.0	677.4	635.2	594.7	548.3
40°	611.1	588.4	605.9	582.2	563.9	539.2	526.9	496.9	470.7	446.4	416.9
42.5°	279.1	276.7	272.7	264.2	262.2	262.5	247.4	237.5	224.2	208.7	199.3
45°	122.0	125.1	127.7	122.9	122.7	120.1	119.2	112.6	110.0	105.0	98.9
47.5°	60.1	61.2	60.6	61.9	60.8	59.1	58.6	57.7	55.1	54.9	52.1
50°	14.2	14.0	14.0	14.2	14.0	14.0	13.8	13.3	13.1	13.3	12.7
52.5°	4.6	4.8	4.6	4.4	4.6	4.8	4.6	4.6	4.6	4.6	4.6
55°	1.1	1.1	1.1	1.1	1.1	1.1	0.9	0.9	1.1	1.1	1.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
2.5°	13.3	11.4	9.4	7.4	5.5	4.4	4.2	3.9
5°	20.1	16.2	10.7	6.3	3.7	2.6	2.0	1.7
7.5°	27.1	20.1	11.8	5.2	2.6	1.1	0.4	0.2
10°	38.9	23.8	12.2	4.2	1.3	0.0	0.0	0.0
12.5°	76.3	27.3	12.0	3.3	0.2	0.0	0.0	0.0
15°	126.9	38.3	11.2	2.2	0.0	0.0	0.0	0.0
17.5°	207.8	49.4	9.6	1.5	0.0	0.0	0.0	0.0
20°	322.2	54.9	7.4	0.7	0.0	0.0	0.0	0.0
21°	377.7	55.3	6.6	0.4	0.0	0.0	0.0	0.0
22°	425.9	55.3	5.7	0.2	0.0	0.0	0.0	0.0
23°	470.5	54.7	5.0	0.0	0.0	0.0	0.0	0.0
24°	507.2	53.8	4.6	0.0	0.0	0.0	0.0	0.0
25°	534.8	52.5	4.2	0.0	0.0	0.0	0.0	0.0
26°	547.5	50.7	3.5	0.0	0.0	0.0	0.0	0.0
27°	553.8	48.3	3.1	0.0	0.0	0.0	0.0	0.0
28°	549.4	45.7	2.6	0.0	0.0	0.0	0.0	0.0
29°	538.5	42.9	2.0	0.0	0.0	0.0	0.0	0.0
30°	524.3	39.6	1.5	0.0	0.0	0.0	0.0	0.0
31°	503.5	36.3	1.1	0.0	0.0	0.0	0.0	0.0
32°	475.1	33.0	0.9	0.0	0.0	0.0	0.0	0.0
33°	437.0	29.5	0.4	0.0	0.0	0.0	0.0	0.0
34°	390.0	26.0	0.2	0.0	0.0	0.0	0.0	0.0
35°	337.3	23.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	292.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0
37°	246.5	15.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	206.5	12.5	0.0	0.0	0.0	0.0	0.0	0.0
39°	170.8	10.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	141.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	78.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	47.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	27.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.4	0.4	0.2	0.0	0.0	0.0
67.5°	0.0	0.0	0.4	0.7	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.4	0.7	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)