

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: P1309185

Luminaire Tested: P3SQAS13R559035DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R559035DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

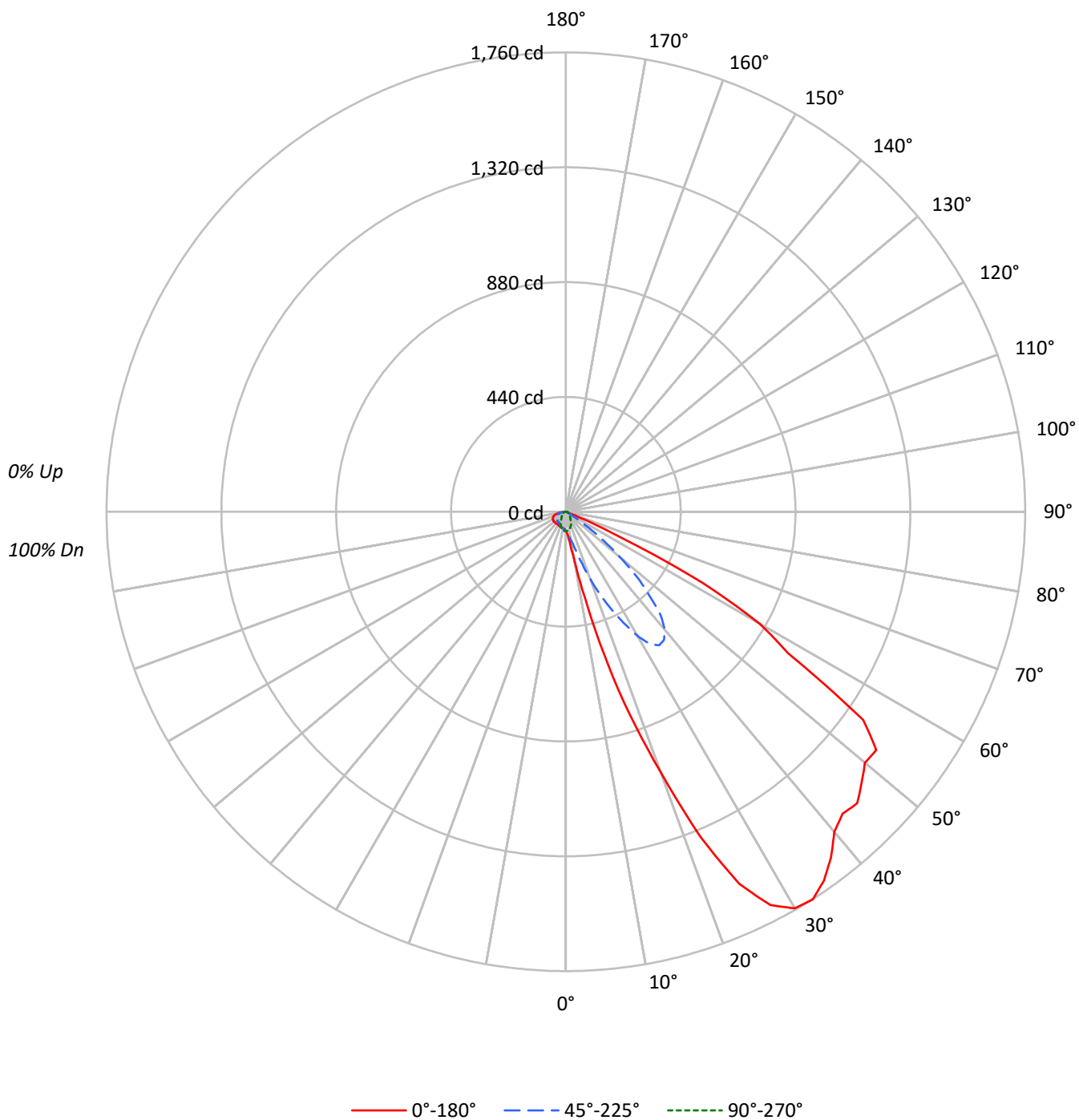
Lumens per Lamp: N/A
Luminaire Lumens: 1132.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12572	12572	12572	12572	12572
5°	16078	14695	12620	11756	11410
10°	32702	18712	12242	11192	11192
15°	100400	28706	11411	10876	11233
20°	194125	50236	10263	10630	11180
25°	298779	78120	8931	10261	11212
30°	348870	109197	7358	10142	11534
35°	362525	131214	6097	10092	11984
40°	359781	132442	5621	10567	13040
45°	384654	109626	5358	11447	14126
50°	400905	72368	5359	12325	15808
55°	417453	31527	5405	13512	17415
60°	294914	7233	5511	14811	19633
65°	96173	2445	5298	15893	22006
70°	3021	2518	5539	17121	25177
75°	2662	2662	4658	17966	27948
80°	1984	2975	4959	17852	29754
85°	1976	3952	5928	17784	29640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 424162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.7
10°-20°	48.1	4.2
20°-30°	161.1	14.2
30°-40°	264.6	23.4
40°-50°	295.1	26.1
50°-60°	248.4	21.9
60°-70°	84.3	7.4
70°-80°	16.5	1.5
80°-90°	6.2	0.5
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°	216.9	19.2
0°-40°	481.5	42.5
0°-60°	1025.0	90.6
0°-90°	1132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1132.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	93	85	73	68	66	12
15°	563	161	64	61	63	179
25°	1572	411	47	54	59	707
35°	1724	624	29	48	57	1071
45°	1579	450	22	47	58	1206
55°	1390	105	18	45	58	1132
65°	236	6	13	39	54	320
75°	4	4	7	27	42	4
85°	1	2	3	9	15	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
2.5°	80.0	80.0	80.0	80.0	80.0	80.0	79.0	76.0	74.0	71.0	70.0
5°	93.0	93.0	93.0	92.0	92.0	90.0	85.0	78.0	73.0	69.0	68.0
7.5°	120.0	119.0	117.0	116.0	113.0	112.0	94.0	80.0	72.0	67.0	66.0
10°	187.0	185.0	182.0	171.0	161.0	154.0	107.0	81.0	70.0	65.0	64.0
12.5°	337.1	333.1	318.1	295.1	267.1	253.0	128.0	82.0	67.0	63.0	63.0
15°	563.1	558.1	530.1	498.1	447.1	419.1	161.0	81.0	64.0	60.0	61.0
17.5°	813.2	799.2	770.1	728.1	659.1	626.1	210.0	79.0	60.0	58.0	60.0
20°	1059.2	1055.2	1007.2	950.2	865.2	821.2	274.1	76.0	56.0	55.0	58.0
22.5°	1347.3	1330.3	1279.2	1218.2	1101.2	1043.2	343.1	72.0	52.0	52.0	56.0
25°	1572.3	1552.3	1512.3	1441.3	1330.3	1268.2	411.1	67.0	47.0	49.0	54.0
27.5°	1698.3	1675.3	1645.3	1584.3	1498.3	1443.3	479.1	61.0	42.0	46.0	52.0
30°	1754.3	1748.3	1726.3	1681.3	1602.3	1553.3	549.1	54.0	37.0	43.0	51.0
32.5°	1760.3	1763.3	1754.3	1725.3	1665.3	1623.3	601.1	48.0	33.0	41.0	49.0
35°	1724.3	1735.3	1741.3	1729.3	1690.3	1656.3	624.1	41.0	29.0	39.0	48.0
37.5°	1668.3	1688.3	1708.3	1711.3	1687.3	1665.3	618.1	35.0	27.0	38.0	48.0
40°	1600.3	1618.3	1659.3	1685.3	1677.3	1661.3	589.1	29.0	25.0	36.0	47.0
42.5°	1569.3	1573.3	1617.3	1661.3	1659.3	1646.3	538.1	23.0	23.0	36.0	47.0
45°	1579.3	1561.3	1590.3	1641.3	1638.3	1621.3	450.1	18.0	22.0	35.0	47.0
47.5°	1537.3	1512.3	1561.3	1621.3	1610.3	1585.3	372.1	13.0	21.0	34.0	46.0
50°	1496.3	1492.3	1530.3	1560.3	1545.3	1531.3	270.1	10.0	20.0	33.0	46.0
52.5°	1499.3	1492.3	1496.3	1495.3	1465.3	1450.3	185.0	8.0	19.0	32.0	46.0
55°	1390.3	1368.3	1347.3	1353.3	1355.3	1345.3	105.0	7.0	18.0	32.0	45.0
57.5°	1010.2	1004.2	1027.2	1092.2	1143.2	1149.2	51.0	7.0	17.0	31.0	44.0
60°	856.2	852.2	853.2	872.2	899.2	882.2	21.0	7.0	16.0	30.0	43.0
62.5°	590.1	629.1	645.1	689.1	671.1	647.1	8.0	8.0	15.0	28.0	42.0
65°	236.0	235.0	257.0	278.1	272.1	254.0	6.0	7.0	13.0	26.0	39.0
67.5°	55.0	50.0	43.0	37.0	31.0	25.0	6.0	7.0	12.0	24.0	37.0
70°	6.0	6.0	6.0	6.0	6.0	5.0	5.0	7.0	11.0	22.0	34.0
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.0	9.0	19.0	31.0
75°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0	7.0	16.0	27.0
77.5°	3.0	3.0	3.0	4.0	3.0	4.0	4.0	5.0	6.0	13.0	23.0
80°	2.0	2.0	3.0	3.0	3.0	3.0	3.0	4.0	5.0	11.0	18.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	4.0	8.0	13.0
85°	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0	3.0	6.0	9.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	3.0	3.0	4.0
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):

	157.5°	180°
0°	73.0	73.0
2.5°	69.0	69.0
5°	67.0	66.0
7.5°	65.0	65.0
10°	64.0	64.0
12.5°	63.0	64.0
15°	63.0	63.0
17.5°	61.0	62.0
20°	60.0	61.0
22.5°	59.0	60.0
25°	58.0	59.0
27.5°	57.0	58.0
30°	56.0	58.0
32.5°	55.0	57.0
35°	55.0	57.0
37.5°	55.0	58.0
40°	55.0	58.0
42.5°	55.0	58.0
45°	55.0	58.0
47.5°	55.0	58.0
50°	55.0	59.0
52.5°	55.0	59.0
55°	55.0	58.0
57.5°	54.0	58.0
60°	54.0	57.0
62.5°	53.0	56.0
65°	51.0	54.0
67.5°	49.0	53.0
70°	46.0	50.0
72.5°	43.0	46.0
75°	39.0	42.0
77.5°	34.0	36.0
80°	27.0	30.0
82.5°	21.0	23.0
85°	14.0	15.0
87.5°	6.0	7.0
90°	0.0	0.0

(END OF REPORT)