

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: P1314667

Luminaire Tested: P3SQAS20R259735D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R259735D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 3500K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

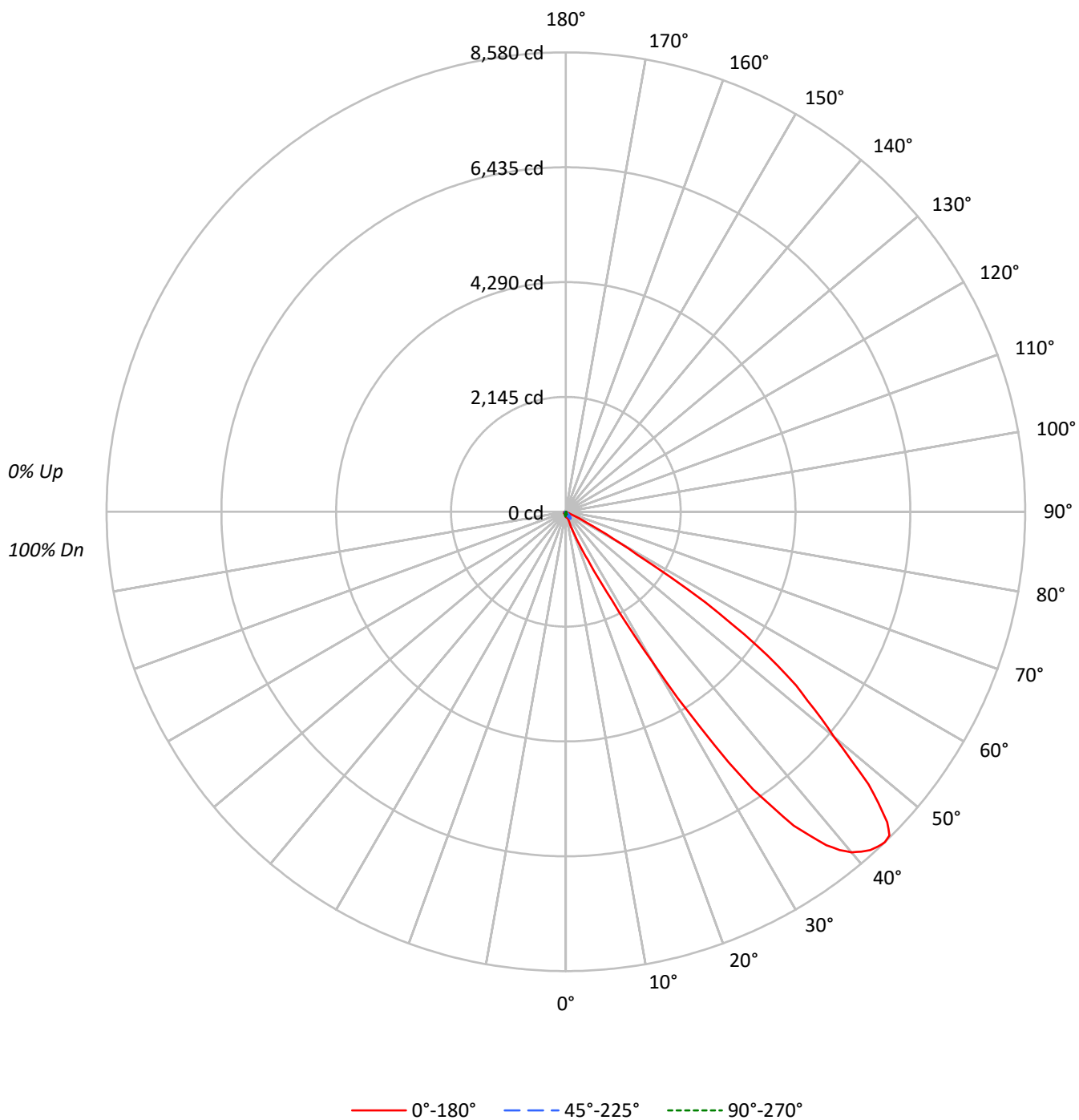
Lumens per Lamp: N/A
Luminaire Lumens: 1789.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	108	104	101	97	100	97	94	96	94	92	92	91	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29		
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25		
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21		
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15724	15724	15724	15724	15724
5°	17962	17150	15248	13606	13329
10°	17890	16246	12941	11280	11280
15°	19934	14032	10109	9539	10109
20°	70396	13856	7789	8082	8944
25°	202530	17653	6290	7487	8684
30°	646174	27245	5011	7199	8770
35°	1415285	32104	4310	6959	8935
40°	1866978	29024	3530	7082	9555
45°	2082020	20313	3459	7672	10351
50°	1752563	10556	3376	8011	11387
55°	1310309	4264	3303	8978	12761
60°	405619	1068	3238	9748	14088
65°	34639	0	3831	10269	15404
70°	2367	806	3978	11884	17423
75°	2063	1065	5257	12576	19896
80°	1587	1587	7835	14083	23406
85°	3162	3162	12449	15611	24898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2082020 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.5
10°-20°	21.1	1.2
20°-30°	99.0	5.5
30°-40°	476.5	26.6
40°-50°	746.9	41.8
50°-60°	382.9	21.4
60°-70°	36.1	2.0
70°-80°	12.2	0.7
80°-90°	6.1	0.3
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°	128.2	7.2
0°-40°	604.8	33.8
0°-60°	1734.6	97.0
0°-90°	1789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1789.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	91	91	91	91	91	
5°	104	99	88	79	77	10
15°	112	79	57	54	57	47
25°	1066	93	33	39	46	661
35°	6732	153	20	33	42	4086
45°	8548	83	14	32	42	6255
55°	4364	14	11	30	42	3633
65°	85	0	9	25	38	266
75°	3	2	8	19	30	4
85°	2	2	6	8	13	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2.5°	99.2	99.2	99.2	99.2	99.2	99.2	97.6	97.6	99.2	97.6	97.6
5°	103.9	103.9	103.9	103.9	103.9	103.9	103.9	102.3	102.3	102.3	99.2
7.5°	105.5	103.9	103.9	103.9	103.9	103.9	103.9	103.9	102.3	102.3	97.6
10°	102.3	102.3	102.3	102.3	100.8	100.8	100.8	99.2	99.2	99.2	92.9
12.5°	102.3	102.3	102.3	102.3	100.8	100.8	99.2	99.2	97.6	96.0	85.0
15°	111.8	111.8	111.8	110.2	108.6	107.1	105.5	103.9	102.3	99.2	78.7
17.5°	163.7	159.0	157.4	151.1	143.3	135.4	129.1	122.8	116.5	111.8	75.6
20°	384.1	382.5	374.7	355.8	335.3	311.7	288.1	261.3	223.5	198.4	75.6
22.5°	665.9	656.5	642.3	628.1	591.9	549.4	505.3	455.0	406.2	354.2	80.3
25°	1065.8	1087.8	1040.6	1002.8	939.8	862.7	779.3	710.0	621.8	540.0	92.9
27.5°	1852.9	1867.1	1774.2	1651.4	1505.0	1342.9	1185.4	1067.4	919.4	784.0	116.5
30°	3249.3	3263.5	3107.6	2846.3	2544.0	2278.0	1917.5	1601.0	1309.8	1084.7	137.0
31°	4055.3	3945.1	3764.1	3510.6	3128.1	2726.6	2293.7	1911.2	1542.8	1246.8	143.3
32°	4755.9	4746.4	4535.5	4151.4	3767.2	3271.3	2734.5	2235.5	1783.7	1410.6	148.0
33°	5582.4	5519.4	5221.9	4859.8	4351.3	3852.3	3159.6	2589.7	2030.8	1593.2	151.1
34°	6245.2	6075.1	5952.3	5538.3	5001.5	4365.5	3624.0	2964.4	2339.4	1769.5	152.7
35°	6731.6	6695.4	6456.1	6070.4	5524.1	4874.0	4124.6	3353.2	2597.6	1974.1	152.7
36°	7246.4	7134.6	6901.6	6552.1	6020.0	5347.8	4507.2	3690.1	2898.2	2158.3	151.1
37°	7569.1	7503.0	7271.6	6911.1	6390.0	5747.7	4935.4	4045.9	3137.5	2342.5	148.0
38°	7901.3	7767.5	7539.2	7194.5	6682.8	6079.9	5245.5	4319.8	3357.9	2504.7	143.3
39°	8131.1	7992.6	7759.6	7416.4	6915.8	6317.6	5491.1	4552.8	3550.0	2625.9	137.0
40°	8304.3	8170.5	7934.4	7581.7	7087.4	6504.9	5695.7	4759.0	3710.6	2731.4	129.1
41°	8411.4	8287.0	8052.4	7701.4	7205.5	6612.0	5829.6	4892.9	3819.2	2802.2	121.2
42°	8501.1	8373.6	8134.3	7775.4	7277.9	6703.3	5911.4	4977.9	3893.2	2838.4	114.9
43°	8551.5	8424.0	8191.0	7824.2	7322.0	6745.8	5955.5	5017.2	3918.4	2833.7	103.9
44°	8579.8	8447.6	8213.0	7846.2	7340.9	6756.8	5958.6	5009.4	3901.1	2795.9	94.5
45°	8548.3	8417.7	8191.0	7824.2	7307.8	6722.2	5927.2	4966.8	3834.9	2721.9	83.4
46°	8343.7	8242.9	8035.1	7698.2	7203.9	6634.0	5846.9	4885.0	3732.6	2630.6	70.8
47°	7983.2	7902.9	7701.4	7451.1	7004.0	6471.9	5698.9	4729.1	3589.4	2493.7	56.7
48°	7606.9	7488.8	7301.5	7044.9	6667.1	6180.6	5454.9	4500.9	3372.1	2314.2	50.4
49°	7051.2	6981.9	6816.6	6530.1	6216.8	5788.6	5110.1	4208.0	3106.1	2119.0	44.1
50°	6541.1	6493.9	6262.5	6051.5	5719.4	5319.5	4642.5	3822.3	2775.5	1876.5	39.4
51°	6142.8	6086.2	5919.3	5656.4	5302.2	4837.8	4200.2	3321.7	2396.1	1588.4	31.5
52°	5727.2	5695.7	5547.8	5277.0	4929.1	4466.2	3770.4	2896.7	2027.7	1342.9	25.2
53°	5387.2	5341.5	5160.5	4919.6	4543.4	4064.8	3304.4	2501.5	1717.5	1128.8	22.0
54°	4891.3	4872.4	4755.9	4504.0	4096.3	3575.2	2882.5	2106.4	1432.6	957.2	18.9
55°	4363.9	4300.9	4182.9	3982.9	3608.2	3121.8	2394.5	1745.9	1158.7	806.0	14.2
56°	3721.6	3718.4	3507.5	3340.6	3008.4	2492.1	1912.7	1363.3	941.4	672.2	12.6
57°	3107.6	3008.4	2805.4	2640.1	2282.7	1890.7	1420.0	1021.7	736.8	544.7	9.4
58°	2298.4	2246.5	2193.0	1950.5	1619.9	1339.7	1013.8	717.9	544.7	415.6	6.3
59°	1560.1	1558.5	1495.6	1311.4	1120.9	834.4	632.9	488.0	374.7	305.4	4.7
60°	1177.6	1149.2	1023.3	902.1	705.3	527.4	374.7	288.1	233.0	196.8	3.1
62.5°	412.5	428.2	376.3	311.7	237.7	195.2	149.6	121.2	99.2	80.3	0.0
65°	85.0	92.9	80.3	75.6	59.8	52.0	45.7	39.4	33.1	28.3	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	11.0	9.4	9.4	9.4	7.9	7.9	7.9	7.9	6.3	6.3	1.6
70°	4.7	4.7	4.7	4.7	4.7	4.7	3.1	3.1	3.1	3.1	1.6
72.5°	4.7	4.7	4.7	3.1	3.1	3.1	3.1	3.1	3.1	1.6	1.6
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1
85°	1.6	1.6	1.6	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	91.3	91.3	91.3	91.3	91.3	91.3
2.5°	96.0	92.9	88.2	86.6	85.0	85.0
5°	94.5	88.2	83.4	78.7	77.1	77.1
7.5°	89.7	81.9	75.6	72.4	70.8	69.3
10°	85.0	74.0	67.7	64.5	64.5	64.5
12.5°	75.6	66.1	59.8	58.2	59.8	59.8
15°	67.7	56.7	53.5	53.5	55.1	56.7
17.5°	58.2	50.4	47.2	48.8	50.4	52.0
20°	52.0	42.5	42.5	44.1	48.8	48.8
22.5°	45.7	37.8	37.8	42.5	45.7	47.2
25°	40.9	33.1	34.6	39.4	44.1	45.7
27.5°	34.6	28.3	31.5	37.8	42.5	44.1
30°	29.9	25.2	29.9	36.2	40.9	44.1
31°	28.3	23.6	29.9	34.6	40.9	44.1
32°	25.2	23.6	28.3	34.6	40.9	42.5
33°	23.6	22.0	28.3	34.6	40.9	42.5
34°	22.0	20.5	26.8	34.6	40.9	42.5
35°	18.9	20.5	26.8	33.1	39.4	42.5
36°	17.3	18.9	26.8	33.1	39.4	42.5
37°	15.7	18.9	25.2	33.1	39.4	42.5
38°	14.2	17.3	25.2	33.1	39.4	42.5
39°	12.6	17.3	23.6	33.1	39.4	42.5
40°	11.0	15.7	23.6	31.5	39.4	42.5
41°	11.0	15.7	23.6	31.5	39.4	42.5
42°	9.4	15.7	23.6	31.5	39.4	42.5
43°	7.9	14.2	23.6	31.5	39.4	42.5
44°	6.3	14.2	22.0	31.5	39.4	42.5
45°	6.3	14.2	22.0	31.5	39.4	42.5
46°	4.7	12.6	22.0	31.5	39.4	42.5
47°	3.1	12.6	22.0	29.9	39.4	42.5
48°	3.1	12.6	22.0	29.9	39.4	42.5
49°	3.1	12.6	20.5	29.9	39.4	42.5
50°	3.1	12.6	20.5	29.9	39.4	42.5
51°	1.6	11.0	20.5	29.9	39.4	42.5
52°	1.6	11.0	20.5	29.9	39.4	44.1
53°	1.6	11.0	20.5	29.9	39.4	42.5
54°	1.6	11.0	18.9	29.9	39.4	42.5
55°	1.6	11.0	18.9	29.9	39.4	42.5
56°	1.6	9.4	18.9	28.3	39.4	42.5
57°	3.1	9.4	18.9	28.3	39.4	40.9
58°	3.1	9.4	18.9	28.3	37.8	40.9
59°	3.1	9.4	18.9	28.3	37.8	40.9
60°	3.1	9.4	17.3	28.3	37.8	40.9
62.5°	3.1	9.4	17.3	26.8	36.2	39.4
65°	3.1	9.4	15.7	25.2	36.2	37.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	3.1	7.9	15.7	23.6	34.6	36.2
70°	4.7	7.9	14.2	23.6	33.1	34.6
72.5°	4.7	7.9	14.2	20.5	29.9	33.1
75°	4.7	7.9	12.6	18.9	28.3	29.9
77.5°	4.7	7.9	11.0	17.3	25.2	26.8
80°	6.3	7.9	9.4	14.2	22.0	23.6
82.5°	6.3	7.9	7.9	11.0	17.3	18.9
85°	4.7	6.3	6.3	7.9	11.0	12.6
87.5°	4.7	6.3	4.7	3.1	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)