

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: P1311459

Luminaire Tested: P3SQAS17R259050DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311459
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: P3SQAS17R259050DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R25 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

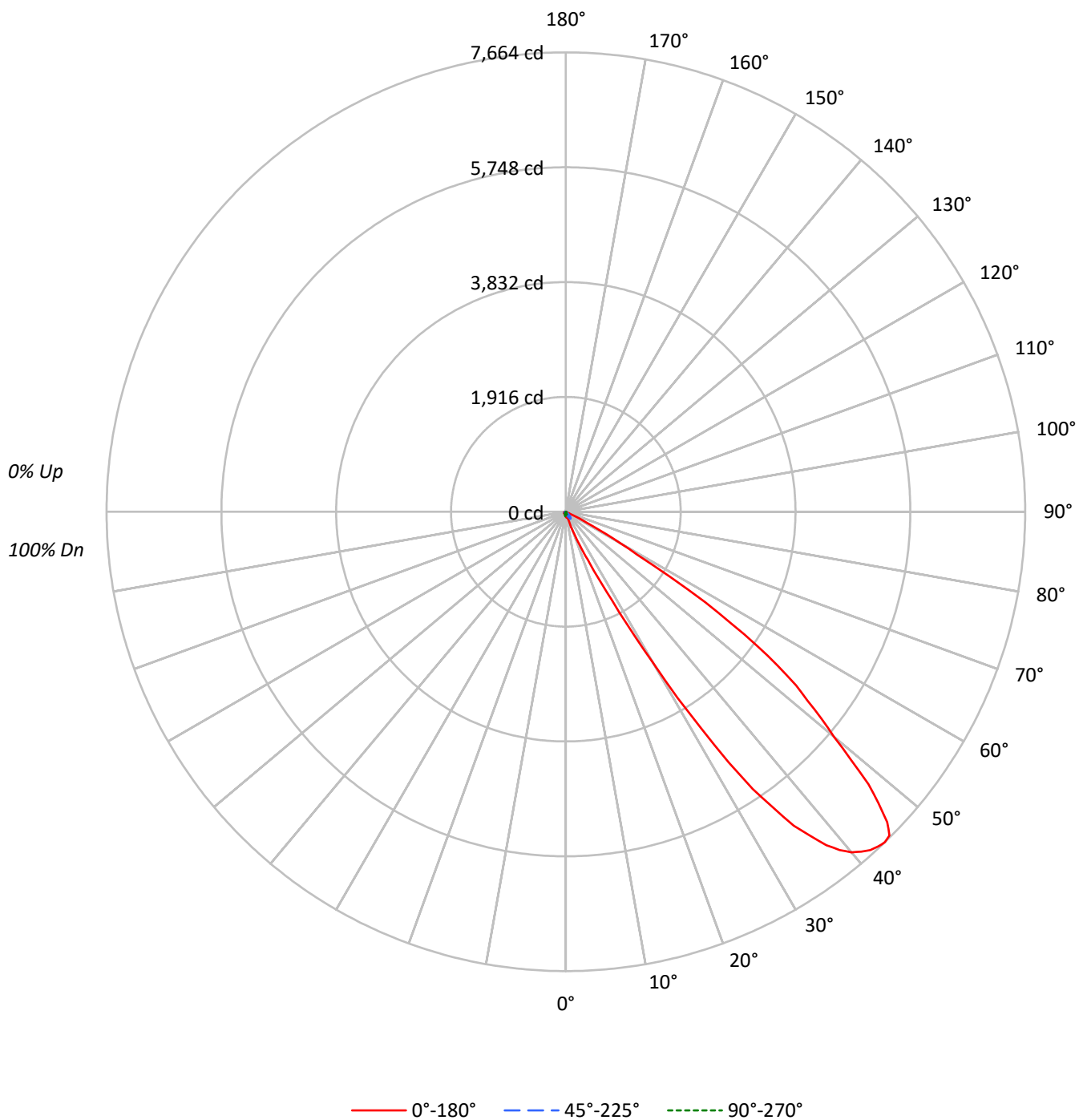
Lumens per Lamp: N/A
Luminaire Lumens: 1598.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.6 / 1.37
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: P1311459

CATALOG NUMBER: P3SQAS17R259050DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1311459

CATALOG NUMBER: P3SQAS17R259050DE010 E3SQCA451MMS

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	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°	14053	14053	14053	14053	14053
5°	16043	15317	13606	12153	11911
10°	15984	14515	11560	10091	10091
15°	17794	12534	9022	8523	9022
20°	62882	12371	6964	7221	7991
25°	180905	15772	5606	6689	7753
30°	577187	24321	4474	6423	7835
35°	1264182	28677	3847	6202	7989
40°	1667652	25922	3170	6317	8543
45°	1859748	18145	3093	6844	9255
50°	1565466	9431	3001	7154	10181
55°	1170417	3813	2943	8017	11410
60°	362288	964	2893	8714	12607
65°	30930	0	3423	9169	13733
70°	2115	705	3525	10625	15560
75°	1863	932	4658	11246	17767
80°	1389	1389	6943	12596	20927
85°	2766	2766	11066	13832	22132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1859748 cd/sqm

TEST NUMBER: P1311459

CATALOG NUMBER: P3SQAS17R259050DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.5
10°-20°	18.8	1.2
20°-30°	88.4	5.5
30°-40°	425.7	26.6
40°-50°	667.2	41.8
50°-60°	342.0	21.4
60°-70°	32.3	2.0
70°-80°	10.8	0.7
80°-90°	5.4	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°	114.5	7.2
0°-40°	540.2	33.8
0°-60°	1549.4	97.0
0°-90°	1598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1598.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	82	82	82	82	82	
5°	93	89	79	70	69	9
15°	100	70	51	48	51	42
25°	952	83	30	35	41	590
35°	6013	136	18	30	38	3650
45°	7636	74	13	28	38	5587
55°	3898	13	10	27	38	3245
65°	76	0	8	22	34	238
75°	3	1	7	17	27	3
85°	1	1	6	7	11	1
90°	0	0	0	0	0	

TEST NUMBER: P1311459

CATALOG NUMBER: P3SQAS17R259050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	88.6	88.6	88.6	88.6	88.6	88.6	87.2	87.2	88.6	87.2	87.2
5°	92.8	92.8	92.8	92.8	92.8	92.8	92.8	91.4	91.4	91.4	88.6
7.5°	94.2	92.8	92.8	92.8	92.8	92.8	92.8	92.8	91.4	91.4	87.2
10°	91.4	91.4	91.4	91.4	90.0	90.0	90.0	88.6	88.6	88.6	83.0
12.5°	91.4	91.4	91.4	91.4	90.0	90.0	88.6	88.6	87.2	85.8	75.9
15°	99.8	99.8	99.8	98.4	97.0	95.6	94.2	92.8	91.4	88.6	70.3
17.5°	146.2	142.0	140.6	135.0	128.0	120.9	115.3	109.7	104.1	99.8	67.5
20°	343.1	341.7	334.7	317.8	299.5	278.4	257.3	233.4	199.7	177.2	67.5
22.5°	594.8	586.4	573.7	561.1	528.7	490.8	451.4	406.4	362.8	316.4	71.7
25°	952.0	971.7	929.5	895.8	839.5	770.6	696.1	634.2	555.4	482.3	83.0
27.5°	1655.1	1667.8	1584.8	1475.1	1344.3	1199.5	1058.9	953.4	821.2	700.3	104.1
30°	2902.4	2915.1	2775.8	2542.4	2272.4	2034.8	1712.8	1430.1	1170.0	968.9	122.3
31°	3622.4	3523.9	3362.2	3135.8	2794.1	2435.5	2048.8	1707.1	1378.1	1113.7	128.0
32°	4248.1	4239.7	4051.3	3708.2	3365.0	2922.1	2442.6	1996.8	1593.2	1260.0	132.2
33°	4986.4	4930.1	4664.4	4340.9	3886.7	3441.0	2822.2	2313.2	1814.0	1423.1	135.0
34°	5578.4	5426.5	5316.9	4947.0	4467.5	3899.4	3237.1	2647.9	2089.6	1580.6	136.4
35°	6012.9	5980.6	5766.8	5422.3	4934.4	4353.6	3684.3	2995.2	2320.2	1763.4	136.4
36°	6472.7	6372.9	6164.8	5852.6	5377.3	4776.9	4026.0	3296.1	2588.8	1927.9	135.0
37°	6761.0	6702.0	6495.2	6173.2	5707.8	5134.0	4408.4	3613.9	2802.6	2092.4	132.2
38°	7057.7	6938.2	6734.3	6426.3	5969.3	5430.8	4685.5	3858.6	2999.4	2237.3	128.0
39°	7263.0	7139.3	6931.2	6624.6	6177.4	5643.1	4904.8	4066.7	3171.0	2345.5	122.3
40°	7417.7	7298.2	7087.3	6772.3	6330.7	5810.4	5087.6	4250.9	3314.4	2439.8	115.3
41°	7513.3	7402.2	7192.7	6879.1	6436.2	5906.1	5207.2	4370.5	3411.4	2503.0	108.3
42°	7593.5	7479.6	7265.8	6945.2	6500.9	5987.6	5280.3	4446.4	3477.5	2535.4	102.7
43°	7638.5	7524.6	7316.5	6988.8	6540.2	6025.6	5319.7	4481.6	3500.0	2531.2	92.8
44°	7663.8	7545.7	7336.2	7008.5	6557.1	6035.4	5322.5	4474.5	3484.6	2497.4	84.4
45°	7635.7	7519.0	7316.5	6988.8	6527.6	6004.5	5294.4	4436.6	3425.5	2431.3	74.5
46°	7452.9	7362.9	7177.3	6876.3	6434.8	5925.7	5222.6	4363.4	3334.1	2349.8	63.3
47°	7130.9	7059.1	6879.1	6655.6	6256.2	5780.9	5090.5	4224.2	3206.1	2227.4	50.6
48°	6794.8	6689.3	6522.0	6292.8	5955.3	5520.8	4872.5	4020.3	3012.1	2067.1	45.0
49°	6298.4	6236.5	6088.9	5832.9	5553.1	5170.6	4564.5	3758.8	2774.4	1892.7	39.4
50°	5842.8	5800.6	5593.9	5405.4	5108.7	4751.6	4146.9	3414.3	2479.1	1676.2	35.2
51°	5487.0	5436.4	5287.3	5052.5	4736.1	4321.3	3751.7	2967.1	2140.2	1418.9	28.1
52°	5115.8	5087.6	4955.5	4713.6	4402.8	3989.4	3367.9	2587.4	1811.2	1199.5	22.5
53°	4812.0	4771.2	4609.5	4394.4	4058.3	3630.8	2951.6	2234.5	1534.2	1008.2	19.7
54°	4369.1	4352.2	4248.1	4023.1	3658.9	3193.5	2574.8	1881.5	1279.6	855.0	16.9
55°	3898.0	3841.7	3736.3	3557.7	3223.0	2788.5	2138.8	1559.5	1035.0	720.0	12.7
56°	3324.3	3321.5	3133.0	2984.0	2687.3	2226.0	1708.5	1217.8	840.9	600.4	11.2
57°	2775.8	2687.3	2505.9	2358.2	2039.0	1688.8	1268.4	912.6	658.1	486.5	8.4
58°	2053.1	2006.7	1958.8	1742.3	1447.0	1196.7	905.6	641.2	486.5	371.2	5.6
59°	1393.5	1392.1	1335.9	1171.4	1001.2	745.3	565.3	435.9	334.7	272.8	4.2
60°	1051.8	1026.5	914.0	805.8	630.0	471.1	334.7	257.3	208.1	175.8	2.8
62.5°	368.4	382.5	336.1	278.4	212.3	174.4	133.6	108.3	88.6	71.7	0.0
65°	75.9	83.0	71.7	67.5	53.4	46.4	40.8	35.2	29.5	25.3	0.0



TEST NUMBER: P1311459

CATALOG NUMBER: P3SQAS17R259050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	9.8	8.4	8.4	8.4	7.0	7.0	7.0	7.0	5.6	5.6	1.4
70°	4.2	4.2	4.2	4.2	4.2	4.2	2.8	2.8	2.8	2.8	1.4
72.5°	4.2	4.2	4.2	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4
75°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
85°	1.4	1.4	1.4	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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: P1311459

CATALOG NUMBER: P3SQAS17R259050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	81.6	81.6	81.6	81.6	81.6	81.6
2.5°	85.8	83.0	78.7	77.3	75.9	75.9
5°	84.4	78.7	74.5	70.3	68.9	68.9
7.5°	80.2	73.1	67.5	64.7	63.3	61.9
10°	75.9	66.1	60.5	57.7	57.7	57.7
12.5°	67.5	59.1	53.4	52.0	53.4	53.4
15°	60.5	50.6	47.8	47.8	49.2	50.6
17.5°	52.0	45.0	42.2	43.6	45.0	46.4
20°	46.4	38.0	38.0	39.4	43.6	43.6
22.5°	40.8	33.7	33.7	38.0	40.8	42.2
25°	36.6	29.5	30.9	35.2	39.4	40.8
27.5°	30.9	25.3	28.1	33.7	38.0	39.4
30°	26.7	22.5	26.7	32.3	36.6	39.4
31°	25.3	21.1	26.7	30.9	36.6	39.4
32°	22.5	21.1	25.3	30.9	36.6	38.0
33°	21.1	19.7	25.3	30.9	36.6	38.0
34°	19.7	18.3	23.9	30.9	36.6	38.0
35°	16.9	18.3	23.9	29.5	35.2	38.0
36°	15.5	16.9	23.9	29.5	35.2	38.0
37°	14.1	16.9	22.5	29.5	35.2	38.0
38°	12.7	15.5	22.5	29.5	35.2	38.0
39°	11.2	15.5	21.1	29.5	35.2	38.0
40°	9.8	14.1	21.1	28.1	35.2	38.0
41°	9.8	14.1	21.1	28.1	35.2	38.0
42°	8.4	14.1	21.1	28.1	35.2	38.0
43°	7.0	12.7	21.1	28.1	35.2	38.0
44°	5.6	12.7	19.7	28.1	35.2	38.0
45°	5.6	12.7	19.7	28.1	35.2	38.0
46°	4.2	11.2	19.7	28.1	35.2	38.0
47°	2.8	11.2	19.7	26.7	35.2	38.0
48°	2.8	11.2	19.7	26.7	35.2	38.0
49°	2.8	11.2	18.3	26.7	35.2	38.0
50°	2.8	11.2	18.3	26.7	35.2	38.0
51°	1.4	9.8	18.3	26.7	35.2	38.0
52°	1.4	9.8	18.3	26.7	35.2	39.4
53°	1.4	9.8	18.3	26.7	35.2	38.0
54°	1.4	9.8	16.9	26.7	35.2	38.0
55°	1.4	9.8	16.9	26.7	35.2	38.0
56°	1.4	8.4	16.9	25.3	35.2	38.0
57°	2.8	8.4	16.9	25.3	35.2	36.6
58°	2.8	8.4	16.9	25.3	33.7	36.6
59°	2.8	8.4	16.9	25.3	33.7	36.6
60°	2.8	8.4	15.5	25.3	33.7	36.6
62.5°	2.8	8.4	15.5	23.9	32.3	35.2
65°	2.8	8.4	14.1	22.5	32.3	33.7



TEST NUMBER: P1311459

CATALOG NUMBER: P3SQAS17R259050DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	2.8	7.0	14.1	21.1	30.9	32.3
70°	4.2	7.0	12.7	21.1	29.5	30.9
72.5°	4.2	7.0	12.7	18.3	26.7	29.5
75°	4.2	7.0	11.2	16.9	25.3	26.7
77.5°	4.2	7.0	9.8	15.5	22.5	23.9
80°	5.6	7.0	8.4	12.7	19.7	21.1
82.5°	5.6	7.0	7.0	9.8	15.5	16.9
85°	4.2	5.6	5.6	7.0	9.8	11.2
87.5°	4.2	5.6	4.2	2.8	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)