

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: P1315672

Luminaire Tested: P3SQAS20R359740D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R359740D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

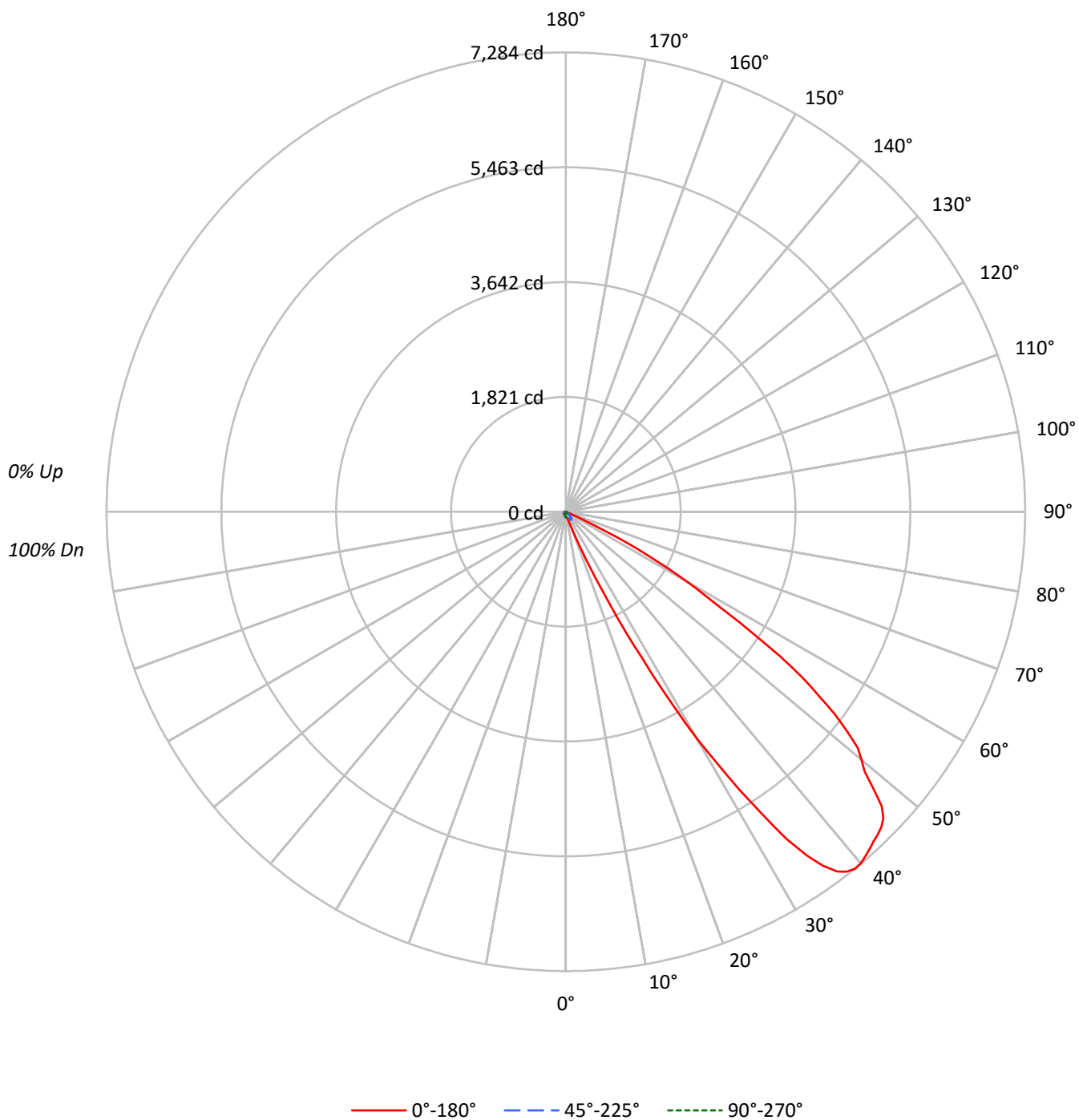
Lumens per Lamp: N/A
Luminaire Lumens: 1814.0 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
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	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14381	14381	14381	14381	14381
5°	15577	15283	14159	12741	12465
10°	16316	14900	12609	10878	10878
15°	23357	14603	10216	9343	9628
20°	58520	15615	8101	8101	8999
25°	271662	19915	6233	7468	8399
30°	825849	27026	4892	6841	8472
35°	1395712	31327	4142	6539	8263
40°	1636065	30935	3305	6632	8835
45°	1722965	21945	2801	7185	9572
50°	1640032	13155	2626	7448	10530
55°	1374265	5405	2943	8347	12281
60°	769353	1137	3376	9576	13537
65°	132809	652	3342	10677	15363
70°	2467	806	4129	11531	17322
75°	2196	1065	5456	13109	19630
80°	1587	1587	6546	14579	22712
85°	0	3162	13042	16203	25886

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1735172 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.4
10°-20°	21.4	1.2
20°-30°	111.3	6.1
30°-40°	480.7	26.5
40°-50°	685.7	37.8
50°-60°	424.7	23.4
60°-70°	64.6	3.6
70°-80°	12.1	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°	140.2	7.7
0°-40°	620.9	34.2
0°-60°	1731.2	95.4
0°-90°	1814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1814.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	90	88	82	74	72	9
15°	131	82	57	52	54	47
25°	1430	105	33	39	44	855
35°	6638	149	20	31	39	3986
45°	7074	90	12	30	39	5344
55°	4577	18	10	28	41	3898
65°	326	2	8	26	38	666
75°	3	2	8	20	30	3
85°	0	2	7	8	13	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
2.5°	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	83.5	81.9
5°	90.1	90.1	88.4	88.4	88.4	88.4	88.4	88.4	85.2	81.9	77.0
7.5°	91.7	91.7	90.1	90.1	90.1	90.1	88.4	86.8	83.5	77.0	72.1
10°	93.3	93.3	93.3	93.3	91.7	90.1	88.4	85.2	80.2	72.1	67.1
12.5°	104.8	104.8	103.2	99.9	96.6	93.3	90.1	83.5	73.7	65.5	60.6
15°	131.0	129.4	126.1	121.2	114.6	106.4	99.9	81.9	67.1	57.3	54.0
17.5°	183.4	180.1	175.2	158.8	144.1	129.4	116.3	81.9	60.6	50.8	47.5
20°	319.3	321.0	286.6	247.3	214.5	178.5	145.7	85.2	54.0	44.2	42.6
22.5°	666.5	640.3	558.4	463.4	353.7	273.5	206.3	93.3	47.5	37.7	37.7
25°	1429.6	1329.7	1131.5	854.8	602.6	427.4	299.7	104.8	42.6	32.8	34.4
27.5°	2610.2	2520.1	2122.2	1598.2	1061.1	645.2	406.1	119.5	37.7	27.8	31.1
30°	4152.8	3903.9	3384.8	2620.0	1773.4	987.4	545.3	135.9	31.1	24.6	29.5
31°	4634.2	4519.6	3887.5	3031.1	2078.0	1172.5	604.2	140.8	29.5	24.6	27.8
32°	5205.7	5002.6	4436.1	3481.4	2387.5	1337.9	674.7	145.7	27.8	21.3	27.8
33°	5716.6	5520.1	4830.7	3877.7	2700.3	1526.2	750.0	147.4	24.6	21.3	26.2
34°	6253.7	5985.1	5302.3	4291.9	3021.2	1729.2	818.8	149.0	22.9	19.7	26.2
35°	6638.5	6370.0	5708.4	4619.5	3298.0	1909.4	897.4	149.0	21.3	19.7	24.6
36°	6936.5	6700.7	6058.8	4956.8	3573.1	2071.5	959.6	149.0	18.0	18.0	24.6
37°	7141.2	6916.9	6294.6	5246.6	3782.7	2215.6	1015.3	149.0	16.4	18.0	24.6
38°	7241.1	7054.5	6522.3	5457.9	3985.7	2328.6	1059.5	145.7	14.7	16.4	22.9
39°	7283.7	7131.4	6661.4	5636.4	4138.0	2426.8	1092.2	142.5	13.1	16.4	22.9
40°	7277.2	7144.5	6740.0	5759.2	4260.8	2493.9	1110.2	137.6	11.5	14.7	22.9
41°	7239.5	7124.9	6781.0	5864.0	4334.5	2539.8	1115.2	132.6	9.8	14.7	21.3
42°	7196.9	7092.1	6794.1	5919.6	4382.0	2554.5	1102.1	126.1	9.8	13.1	21.3
43°	7152.7	7056.1	6794.1	5937.7	4393.5	2544.7	1080.8	114.6	8.2	13.1	21.3
44°	7116.7	7025.0	6772.8	5932.7	4368.9	2507.0	1041.5	101.5	6.6	13.1	21.3
45°	7074.1	6984.0	6745.0	5901.6	4321.4	2443.2	992.3	90.1	4.9	11.5	21.3
46°	6998.8	6928.4	6695.8	5837.8	4246.1	2354.8	930.1	81.9	3.3	11.5	19.7
47°	6853.0	6792.4	6600.9	5742.8	4146.2	2250.0	866.2	73.7	3.3	11.5	19.7
48°	6559.9	6558.3	6410.9	5565.9	3987.4	2119.0	799.1	65.5	3.3	11.5	19.7
49°	6276.6	6247.2	6063.7	5254.8	3759.8	1961.8	728.7	59.0	1.6	11.5	19.7
50°	6121.1	6057.2	5755.9	4888.0	3468.3	1744.0	653.4	49.1	1.6	9.8	19.7
51°	5958.9	5867.2	5511.9	4557.2	3121.1	1534.4	571.5	39.3	1.6	9.8	18.0
52°	5665.8	5579.0	5181.1	4241.2	2783.8	1319.8	492.9	32.8	1.6	9.8	19.7
53°	5349.8	5225.3	4793.0	3894.0	2487.4	1129.9	412.7	27.8	1.6	9.8	18.0
54°	4951.9	4896.2	4400.0	3468.3	2140.2	946.5	339.0	22.9	1.6	9.8	18.0
55°	4576.9	4495.0	3979.2	3032.7	1825.8	776.2	283.3	18.0	1.6	9.8	18.0
56°	4098.7	3975.9	3492.8	2633.1	1506.5	625.5	239.1	14.7	1.6	9.8	18.0
57°	3528.9	3397.9	3016.3	2189.4	1182.3	476.5	199.8	11.5	1.6	9.8	18.0
58°	2985.2	2872.2	2462.8	1689.9	890.8	330.8	165.4	8.2	1.6	8.2	18.0
59°	2579.1	2454.6	2048.5	1300.2	619.0	244.0	124.5	6.6	1.6	9.8	18.0
60°	2233.6	2073.1	1649.0	1007.1	442.1	175.2	91.7	3.3	3.3	9.8	18.0
62.5°	1287.1	1136.4	787.6	409.4	181.8	90.1	44.2	1.6	3.3	9.8	18.0
65°	325.9	289.8	188.3	88.4	50.8	31.1	16.4	1.6	3.3	8.2	16.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	11.5	11.5	11.5	9.8	8.2	6.6	3.3	1.6	3.3	8.2	16.4
70°	4.9	4.9	4.9	3.3	3.3	1.6	1.6	1.6	3.3	8.2	14.7
72.5°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	4.9	8.2	13.1
75°	3.3	3.3	3.3	3.3	1.6	1.6	1.6	1.6	4.9	8.2	13.1
77.5°	3.3	3.3	1.6	1.6	1.6	1.6	1.6	1.6	4.9	6.6	11.5
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9	6.6	9.8
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9	6.6	8.2
85°	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.6	4.9	6.6	6.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	6.6	4.9
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):

	135°	157.5°	180°
0°	83.5	83.5	83.5
2.5°	78.6	78.6	78.6
5°	73.7	73.7	72.1
7.5°	68.8	67.1	67.1
10°	62.2	62.2	62.2
12.5°	57.3	57.3	57.3
15°	52.4	54.0	54.0
17.5°	47.5	50.8	50.8
20°	44.2	47.5	49.1
22.5°	40.9	44.2	45.9
25°	39.3	42.6	44.2
27.5°	36.0	40.9	44.2
30°	34.4	39.3	42.6
31°	34.4	39.3	40.9
32°	32.8	39.3	40.9
33°	32.8	39.3	40.9
34°	32.8	37.7	40.9
35°	31.1	37.7	39.3
36°	31.1	37.7	39.3
37°	31.1	37.7	40.9
38°	31.1	37.7	39.3
39°	29.5	37.7	39.3
40°	29.5	37.7	39.3
41°	29.5	37.7	39.3
42°	29.5	37.7	39.3
43°	29.5	37.7	39.3
44°	29.5	36.0	39.3
45°	29.5	36.0	39.3
46°	29.5	37.7	39.3
47°	29.5	37.7	40.9
48°	29.5	36.0	39.3
49°	27.8	36.0	39.3
50°	27.8	36.0	39.3
51°	27.8	37.7	40.9
52°	27.8	37.7	40.9
53°	27.8	37.7	40.9
54°	27.8	37.7	39.3
55°	27.8	37.7	40.9
56°	27.8	37.7	39.3
57°	27.8	37.7	39.3
58°	27.8	36.0	39.3
59°	27.8	36.0	39.3
60°	27.8	36.0	39.3
62.5°	26.2	36.0	39.3
65°	26.2	34.4	37.7



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	24.6	34.4	36.0
70°	22.9	32.8	34.4
72.5°	21.3	31.1	32.8
75°	19.7	27.8	29.5
77.5°	16.4	24.6	27.8
80°	14.7	21.3	22.9
82.5°	11.5	18.0	19.7
85°	8.2	13.1	13.1
87.5°	3.3	6.6	6.6
90°	0.0	0.0	0.0

(END OF REPORT)