

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: P1313598

Luminaire Tested: P3SQAS17R459730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R459730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

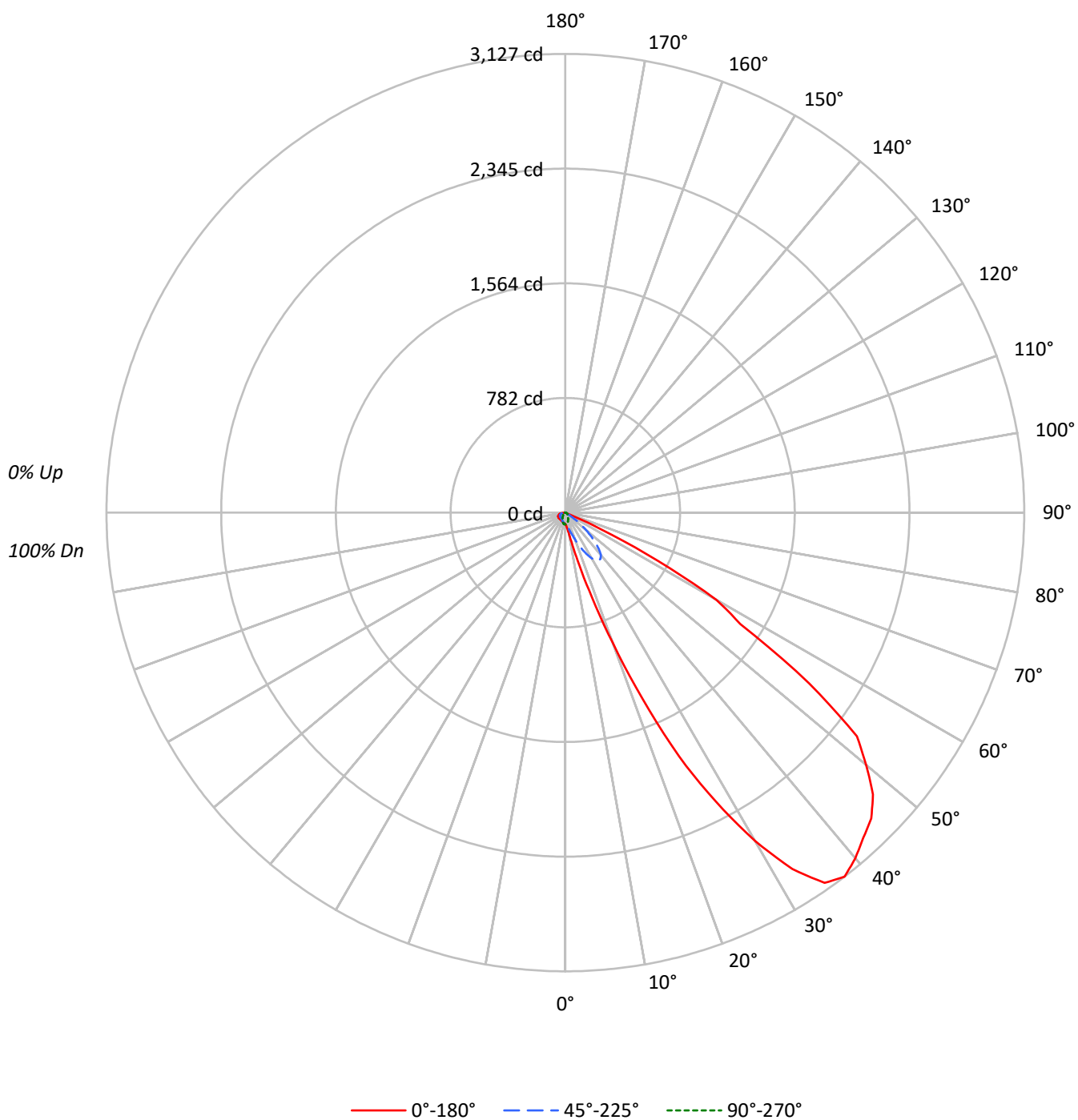
Lumens per Lamp: N/A
Luminaire Lumens: 1397.0 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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	0
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		96	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	66	77	70	65		74	69	64		71	67	63	61
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	58	53	51
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44	37	33	31
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39	33	28	26
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35	29	24	22
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32	26	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13916	13916	13916	13916	13916
5°	16562	15369	13761	12776	12776
10°	26442	17960	12924	12119	12119
15°	65863	24088	11732	11322	11732
20°	173470	35959	10153	10795	11418
25°	348319	53302	8779	10090	11193
30°	513511	71393	7119	9864	11475
35°	647723	83720	6076	9713	11900
40°	691076	84600	5441	10117	12725
45°	718038	70559	5066	10960	13785
50°	716903	49165	4957	11762	15460
55°	609320	21829	5195	13181	16995
60°	409511	4374	5167	14708	19496
65°	108643	1875	5175	15975	22128
70°	2921	2316	5237	17423	24976
75°	2329	2329	5390	18432	28413
80°	2281	3471	5752	19439	32035
85°	2371	4545	9090	20551	32012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 736520 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	0.6
10°-20°	39.4	2.8
20°-30°	162.5	11.6
30°-40°	342.5	24.5
40°-50°	422.6	30.2
50°-60°	316.7	22.7
60°-70°	81.5	5.8
70°-80°	16.9	1.2
80°-90°	6.9	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°	210.0	15.0
0°-40°	552.5	39.5
0°-60°	1291.8	92.5
0°-90°	1397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1397.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	81	81	81	81	81	
5°	96	89	80	74	74	11
15°	369	135	66	64	66	135
25°	1833	280	46	53	59	854
35°	3081	398	29	46	57	1877
45°	2948	290	21	45	57	2256
55°	2029	73	17	44	57	1752
65°	267	5	13	39	54	384
75°	4	4	8	28	43	4
85°	1	2	5	10	16	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°	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
2.5°	85.4	85.4	85.4	85.4	85.4	85.4	85.4	84.3	83.1	80.8	78.5
5°	95.8	94.7	94.7	94.7	93.5	92.3	92.3	88.9	84.3	79.6	76.2
7.5°	113.1	113.1	112.0	109.7	108.5	106.2	103.9	94.7	84.3	77.3	72.7
10°	151.2	148.9	145.4	143.1	137.4	129.3	123.5	102.7	83.1	73.9	70.4
12.5°	226.2	230.9	219.3	207.8	191.6	176.6	158.1	116.6	83.1	70.4	66.9
15°	369.4	377.5	355.5	332.4	293.2	256.3	221.6	135.1	80.8	65.8	62.3
17.5°	603.7	614.1	577.2	522.9	461.7	387.8	324.4	160.4	78.5	61.2	58.9
20°	946.5	945.4	873.8	805.7	688.0	579.5	460.6	196.2	75.0	55.4	55.4
22.5°	1367.9	1372.5	1284.7	1162.4	995.0	820.7	631.4	237.8	70.4	50.8	51.9
25°	1833.0	1793.8	1689.9	1541.0	1327.5	1086.2	836.9	280.5	65.8	46.2	48.5
27.5°	2220.9	2182.8	2063.9	1887.3	1657.6	1371.3	1045.8	323.2	60.0	41.6	45.0
30°	2582.2	2533.7	2390.6	2190.9	1917.3	1608.0	1242.0	359.0	53.1	35.8	41.6
32.5°	2880.0	2836.1	2673.4	2441.4	2143.5	1811.1	1408.3	386.7	46.2	32.3	39.2
35°	3080.8	3035.8	2885.8	2630.7	2306.3	1958.9	1543.3	398.2	40.4	28.9	38.1
37.5°	3127.0	3102.8	2995.4	2756.5	2418.3	2053.5	1629.9	394.8	33.5	26.5	35.8
40°	3073.9	3079.7	3028.9	2830.4	2478.3	2093.9	1665.7	376.3	27.7	24.2	34.6
42.5°	3005.8	3020.8	3017.4	2860.4	2503.7	2096.2	1650.7	339.4	21.9	21.9	33.5
45°	2948.1	2963.1	2983.9	2847.7	2486.4	2066.2	1603.3	289.7	16.2	20.8	33.5
47.5°	2843.1	2859.2	2889.2	2746.1	2398.7	1988.9	1517.9	235.5	11.5	19.6	32.3
50°	2675.7	2683.8	2675.7	2515.2	2230.1	1864.2	1379.4	183.5	8.1	18.5	32.3
52.5°	2503.7	2487.5	2420.6	2217.4	1962.3	1666.8	1205.1	130.4	5.8	17.3	31.2
55°	2029.3	2003.9	1954.2	1829.6	1684.1	1424.4	974.2	72.7	5.8	17.3	30.0
57.5°	1414.0	1427.9	1445.2	1419.8	1352.8	1122.0	739.9	32.3	5.8	16.2	30.0
60°	1188.9	1177.4	1178.5	1162.4	1051.6	818.4	509.0	12.7	5.8	15.0	28.9
62.5°	709.9	718.0	733.0	736.4	626.8	457.1	266.6	5.8	5.8	13.9	27.7
65°	266.6	279.3	244.7	212.4	168.5	123.5	62.3	4.6	6.9	12.7	25.4
67.5°	8.1	9.2	11.5	10.4	10.4	9.2	6.9	4.6	6.9	11.5	24.2
70°	5.8	5.8	5.8	5.8	5.8	4.6	4.6	4.6	5.8	10.4	21.9
72.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.8	9.2	19.6
75°	3.5	4.6	3.5	3.5	3.5	3.5	3.5	3.5	5.8	8.1	16.2
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	6.9	13.9
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	4.6	5.8	11.5
82.5°	2.3	2.3	2.3	1.2	2.3	2.3	2.3	2.3	4.6	4.6	9.2
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	3.5	4.6	5.8
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.3	3.5	3.5	3.5
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°	80.8	80.8	80.8
2.5°	76.2	76.2	76.2
5°	73.9	73.9	73.9
7.5°	71.6	71.6	71.6
10°	69.3	69.3	69.3
12.5°	66.9	66.9	68.1
15°	63.5	65.8	65.8
17.5°	61.2	63.5	64.6
20°	58.9	61.2	62.3
22.5°	55.4	58.9	61.2
25°	53.1	57.7	58.9
27.5°	50.8	56.6	58.9
30°	49.6	55.4	57.7
32.5°	47.3	54.3	56.6
35°	46.2	54.3	56.6
37.5°	46.2	53.1	56.6
40°	45.0	53.1	56.6
42.5°	45.0	53.1	56.6
45°	45.0	53.1	56.6
47.5°	43.9	53.1	57.7
50°	43.9	54.3	57.7
52.5°	43.9	54.3	57.7
55°	43.9	54.3	56.6
57.5°	42.7	53.1	56.6
60°	42.7	53.1	56.6
62.5°	40.4	51.9	55.4
65°	39.2	50.8	54.3
67.5°	36.9	49.6	51.9
70°	34.6	46.2	49.6
72.5°	31.2	43.9	47.3
75°	27.7	40.4	42.7
77.5°	24.2	35.8	38.1
80°	19.6	30.0	32.3
82.5°	15.0	23.1	24.2
85°	10.4	15.0	16.2
87.5°	4.6	6.9	8.1
90°	0.0	0.0	0.0

(END OF REPORT)