

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: P1317314

Luminaire Tested: P3SQAS17R509830DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R509830DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

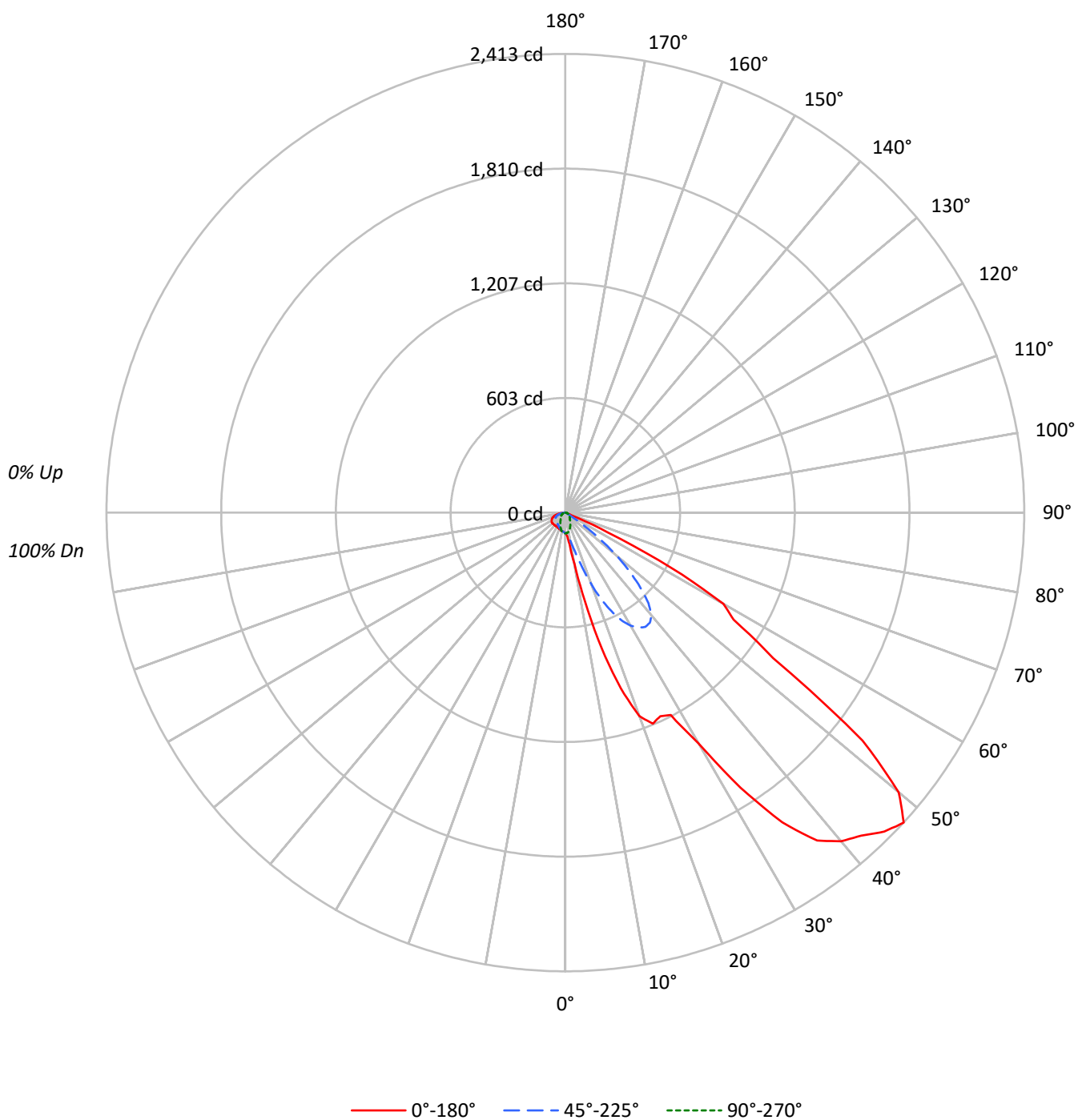
Lumens per Lamp: N/A
Luminaire Lumens: 1361.0 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18634	18634	18634	18634	18634
5°	22146	20728	18498	17686	17478
10°	47690	25690	17680	17068	17261
15°	132047	42132	15922	16350	16974
20°	208769	73897	13782	15725	16586
25°	224497	108562	11839	15183	16760
30°	278670	136283	10281	14955	17301
35°	418177	154215	8893	15075	18291
40°	507173	158566	7936	15603	19290
45°	577796	136004	7721	16611	21190
50°	613240	93856	7877	17951	23632
55°	400608	37773	7777	19427	26123
60°	330392	6476	7681	21046	28761
65°	99637	3342	7172	22535	31623
70°	4129	3575	7100	23062	34342
75°	3926	3926	7053	23489	37530
80°	3471	3471	7042	23307	38481
85°	2371	4742	9287	23317	37149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 615228 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	0.8
10°-20°	64.4	4.7
20°-30°	165.7	12.2
30°-40°	297.6	21.9
40°-50°	397.5	29.2
50°-60°	302.8	22.2
60°-70°	91.9	6.8
70°-80°	22.0	1.6
80°-90°	7.9	0.6
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°	241.4	17.7
0°-40°	539.0	39.6
0°-60°	1239.2	91.1
0°-90°	1361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1361.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	108	108	108	108	108	
5°	128	120	107	102	101	16
15°	741	236	89	92	95	218
25°	1181	571	62	80	88	564
35°	1989	734	42	72	87	1221
45°	2372	558	32	68	87	1814
55°	1334	126	26	65	87	1327
65°	244	8	18	55	78	338
75°	6	6	11	35	56	6
85°	1	2	5	12	19	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2	108.2
2.5°	115.2	115.2	115.2	115.2	115.2	115.2	114.0	114.0	114.0	111.7	109.3
5°	128.1	129.3	128.1	128.1	125.8	125.8	123.4	123.4	119.9	112.9	107.0
7.5°	168.1	166.9	165.8	161.1	157.5	149.3	145.8	139.9	129.3	112.9	104.6
10°	272.7	265.7	261.0	250.4	228.1	213.9	195.1	176.3	146.9	112.9	101.1
12.5°	473.7	472.6	458.5	423.2	391.5	348.0	302.1	256.3	181.0	110.5	96.4
15°	740.6	730.0	710.0	668.9	612.5	544.3	462.0	380.9	236.3	107.0	89.3
17.5°	968.7	955.7	940.4	899.3	834.6	748.8	650.1	538.4	311.5	102.3	82.3
20°	1139.1	1130.9	1117.9	1085.0	1023.9	946.3	835.8	700.6	403.2	96.4	75.2
22.5°	1201.4	1200.2	1202.6	1190.8	1160.3	1099.1	993.3	852.3	493.7	89.3	68.2
25°	1181.4	1180.3	1195.5	1210.8	1217.9	1193.2	1112.1	974.5	571.3	83.5	62.3
27.5°	1200.2	1196.7	1189.7	1192.0	1212.0	1226.1	1188.5	1068.6	638.3	75.2	56.4
30°	1401.3	1381.3	1349.5	1295.5	1255.5	1252.0	1235.5	1142.6	685.3	67.0	51.7
32.5°	1715.1	1690.4	1632.8	1532.9	1437.7	1364.8	1313.1	1204.9	718.3	58.8	45.8
35°	1989.0	1971.4	1904.4	1805.6	1669.3	1532.9	1438.9	1296.6	733.5	51.7	42.3
37.5°	2174.8	2167.7	2101.9	1996.1	1857.4	1696.3	1571.7	1390.7	730.0	43.5	38.8
40°	2255.9	2234.7	2179.5	2090.1	1950.2	1805.6	1674.0	1450.6	705.3	35.3	35.3
42.5°	2304.1	2280.6	2220.6	2136.0	1998.4	1844.4	1685.7	1424.8	646.6	28.2	34.1
45°	2372.3	2347.6	2268.8	2178.3	2039.6	1860.9	1639.9	1333.1	558.4	21.2	31.7
47.5°	2413.4	2396.9	2338.2	2247.6	2079.5	1837.4	1534.1	1247.3	460.8	16.5	30.6
50°	2288.8	2272.3	2228.8	2166.5	2053.7	1758.6	1441.2	1108.5	350.3	12.9	29.4
52.5°	1970.2	1984.3	1992.6	2010.2	1927.9	1582.3	1302.5	998.0	236.3	10.6	27.0
55°	1334.2	1355.4	1378.9	1449.5	1545.8	1408.3	1156.7	862.9	125.8	10.6	25.9
57.5°	1048.6	1041.5	1034.5	1029.8	1105.0	1161.4	1016.8	690.0	54.1	10.6	23.5
60°	959.2	938.1	924.0	927.5	965.1	942.8	805.3	450.2	18.8	10.6	22.3
62.5°	628.9	645.4	677.1	731.2	705.3	605.4	467.9	178.7	9.4	10.6	20.0
65°	244.5	236.3	244.5	259.8	224.5	166.9	104.6	31.7	8.2	9.4	17.6
67.5°	32.9	29.4	22.3	14.1	12.9	11.8	9.4	8.2	8.2	9.4	16.5
70°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.1	7.1	8.2	14.1
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.2	11.8
75°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	7.1	10.6
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.9	8.2
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	7.1
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	3.5	4.7	5.9
85°	1.2	2.4	1.2	2.4	2.4	2.4	2.4	2.4	2.4	3.5	4.7
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	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):

	112.5°	135°	157.5°	180°
0°	108.2	108.2	108.2	108.2
2.5°	107.0	104.6	104.6	104.6
5°	104.6	102.3	102.3	101.1
7.5°	101.1	99.9	99.9	99.9
10°	98.7	97.6	98.7	98.7
12.5°	94.0	95.2	96.4	96.4
15°	89.3	91.7	94.0	95.2
17.5°	84.6	89.3	91.7	92.9
20°	79.9	85.8	89.3	90.5
22.5°	76.4	82.3	87.0	89.3
25°	71.7	79.9	85.8	88.2
27.5°	67.0	76.4	83.5	87.0
30°	63.5	75.2	83.5	87.0
32.5°	60.0	72.9	82.3	85.8
35°	57.6	71.7	82.3	87.0
37.5°	55.3	70.5	82.3	85.8
40°	54.1	69.4	82.3	85.8
42.5°	52.9	69.4	82.3	87.0
45°	50.5	68.2	82.3	87.0
47.5°	49.4	68.2	82.3	87.0
50°	48.2	67.0	82.3	88.2
52.5°	47.0	65.8	82.3	88.2
55°	44.7	64.7	81.1	87.0
57.5°	43.5	63.5	79.9	84.6
60°	41.1	61.1	77.6	83.5
62.5°	38.8	58.8	75.2	79.9
65°	35.3	55.3	71.7	77.6
67.5°	31.7	50.5	68.2	74.1
70°	28.2	45.8	63.5	68.2
72.5°	24.7	41.1	58.8	62.3
75°	21.2	35.3	51.7	56.4
77.5°	17.6	30.6	43.5	47.0
80°	12.9	23.5	35.3	38.8
82.5°	10.6	17.6	25.9	28.2
85°	7.1	11.8	16.5	18.8
87.5°	3.5	5.9	8.2	9.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)