

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: P1308215

Luminaire Tested: P3SQAS17R509030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308215
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: P3SQAS17R509030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

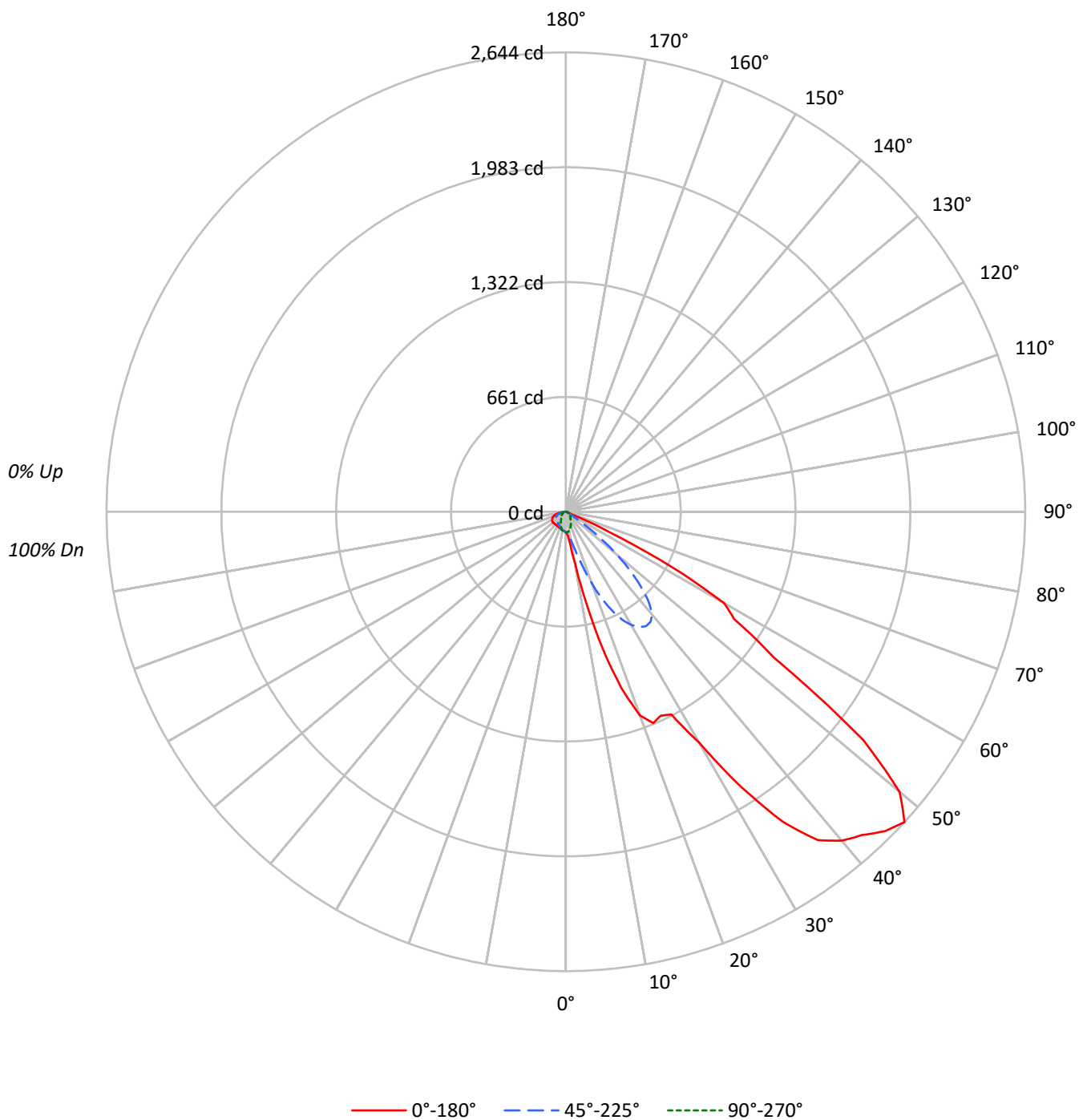
Lumens per Lamp: N/A
Luminaire Lumens: 1491.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	56	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°	20408	20408	20408	20408	20408
5°	24272	22716	20262	19363	19155
10°	52254	28156	19377	18695	18922
15°	144653	46161	17455	17919	18596
20°	228710	80953	15102	17228	18181
25°	245952	118938	12979	16646	18357
30°	305279	149308	11276	16387	18952
35°	458124	168953	9755	16525	20036
40°	555622	173719	8678	17086	21133
45°	632987	148985	8476	18194	23211
50°	671810	102832	8627	19666	25882
55°	438892	41376	8497	21258	28615
60°	361978	7096	8439	23078	31482
65°	109173	3668	7865	24655	34639
70°	4532	3877	7805	25278	37615
75°	4259	4259	7719	25685	41123
80°	3868	3868	7637	25588	42151
85°	2569	5138	10275	25491	40706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 673988 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	0.8
10°-20°	70.6	4.7
20°-30°	181.5	12.2
30°-40°	326.0	21.9
40°-50°	435.5	29.2
50°-60°	331.7	22.2
60°-70°	100.7	6.8
70°-80°	24.0	1.6
80°-90°	8.7	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°	264.4	17.7
0°-40°	590.4	39.6
0°-60°	1357.6	91.1
0°-90°	1491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1491.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	118	118	118	118	118	
5°	140	131	117	112	111	18
15°	811	259	98	100	104	239
25°	1294	626	68	88	97	618
35°	2179	804	46	79	95	1338
45°	2599	612	35	75	95	1987
55°	1462	138	28	71	95	1454
65°	268	9	19	60	85	371
75°	6	6	12	39	62	7
85°	1	3	5	13	21	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°	118.5	118.5	118.5	118.5	118.5	118.5	118.5	118.5	118.5	118.5	118.5
2.5°	126.2	126.2	126.2	126.2	126.2	126.2	124.9	124.9	124.9	122.3	119.8
5°	140.4	141.7	140.4	140.4	137.8	137.8	135.2	135.2	131.4	123.6	117.2
7.5°	184.2	182.9	181.6	176.4	172.6	163.6	159.7	153.3	141.7	123.6	114.6
10°	298.8	291.1	285.9	274.3	249.8	234.4	213.8	193.2	161.0	123.6	110.8
12.5°	519.0	517.7	502.3	463.6	428.8	381.2	331.0	280.7	198.3	121.1	105.6
15°	811.3	799.7	777.9	732.8	671.0	596.3	506.1	417.3	258.9	117.2	97.9
17.5°	1061.2	1047.0	1030.3	985.2	914.4	820.4	712.2	589.8	341.3	112.0	90.1
20°	1247.9	1238.9	1224.7	1188.7	1121.7	1036.7	915.7	767.5	441.7	105.6	82.4
22.5°	1316.2	1314.9	1317.5	1304.6	1271.1	1204.1	1088.2	933.7	540.9	97.9	74.7
25°	1294.3	1293.0	1309.7	1326.5	1334.2	1307.2	1218.3	1067.6	625.9	91.4	68.3
27.5°	1314.9	1311.0	1303.3	1305.9	1327.8	1343.2	1302.0	1170.6	699.3	82.4	61.8
30°	1535.1	1513.2	1478.4	1419.2	1375.4	1371.5	1353.5	1251.8	750.8	73.4	56.7
32.5°	1879.0	1851.9	1788.8	1679.3	1575.0	1495.2	1438.5	1320.0	786.9	64.4	50.2
35°	2179.0	2159.7	2086.3	1978.1	1828.7	1679.3	1576.3	1420.5	803.6	56.7	46.4
37.5°	2382.5	2374.8	2302.6	2186.7	2034.8	1858.3	1721.8	1523.5	799.7	47.6	42.5
40°	2471.4	2448.2	2387.6	2289.8	2136.5	1978.1	1833.9	1589.2	772.7	38.6	38.6
42.5°	2524.2	2498.4	2432.7	2340.0	2189.3	2020.6	1846.8	1560.9	708.3	30.9	37.3
45°	2598.9	2571.8	2485.5	2386.4	2234.4	2038.6	1796.5	1460.4	611.7	23.2	34.8
47.5°	2643.9	2625.9	2561.5	2462.3	2278.2	2012.9	1680.6	1366.4	504.8	18.0	33.5
50°	2507.4	2489.4	2441.7	2373.5	2249.8	1926.6	1578.9	1214.4	383.8	14.2	32.2
52.5°	2158.4	2173.9	2182.9	2202.2	2112.0	1733.4	1426.9	1093.4	258.9	11.6	29.6
55°	1461.7	1484.9	1510.6	1587.9	1693.5	1542.8	1267.2	945.3	137.8	11.6	28.3
57.5°	1148.7	1141.0	1133.3	1128.1	1210.6	1272.4	1114.0	756.0	59.2	11.6	25.8
60°	1050.9	1027.7	1012.2	1016.1	1057.3	1032.8	882.2	493.2	20.6	11.6	24.5
62.5°	689.0	707.0	741.8	801.0	772.7	663.2	512.6	195.8	10.3	11.6	21.9
65°	267.9	258.9	267.9	284.6	246.0	182.9	114.6	34.8	9.0	10.3	19.3
67.5°	36.1	32.2	24.5	15.5	14.2	12.9	10.3	9.0	9.0	10.3	18.0
70°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	7.7	7.7	9.0	15.5
72.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	9.0	12.9
75°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7.7	11.6
77.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.4	9.0
80°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.2	7.7
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.2	6.4
85°	1.3	2.6	1.3	2.6	2.6	2.6	2.6	2.6	2.6	3.9	5.2
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	3.9	3.9
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):

	112.5°	135°	157.5°	180°
0°	118.5	118.5	118.5	118.5
2.5°	117.2	114.6	114.6	114.6
5°	114.6	112.0	112.0	110.8
7.5°	110.8	109.5	109.5	109.5
10°	108.2	106.9	108.2	108.2
12.5°	103.0	104.3	105.6	105.6
15°	97.9	100.5	103.0	104.3
17.5°	92.7	97.9	100.5	101.7
20°	87.6	94.0	97.9	99.2
22.5°	83.7	90.1	95.3	97.9
25°	78.6	87.6	94.0	96.6
27.5°	73.4	83.7	91.4	95.3
30°	69.5	82.4	91.4	95.3
32.5°	65.7	79.8	90.1	94.0
35°	63.1	78.6	90.1	95.3
37.5°	60.5	77.3	90.1	94.0
40°	59.2	76.0	90.1	94.0
42.5°	58.0	76.0	90.1	95.3
45°	55.4	74.7	90.1	95.3
47.5°	54.1	74.7	90.1	95.3
50°	52.8	73.4	90.1	96.6
52.5°	51.5	72.1	90.1	96.6
55°	48.9	70.8	88.9	95.3
57.5°	47.6	69.5	87.6	92.7
60°	45.1	67.0	85.0	91.4
62.5°	42.5	64.4	82.4	87.6
65°	38.6	60.5	78.6	85.0
67.5°	34.8	55.4	74.7	81.1
70°	30.9	50.2	69.5	74.7
72.5°	27.0	45.1	64.4	68.3
75°	23.2	38.6	56.7	61.8
77.5°	19.3	33.5	47.6	51.5
80°	14.2	25.8	38.6	42.5
82.5°	11.6	19.3	28.3	30.9
85°	7.7	12.9	18.0	20.6
87.5°	3.9	6.4	9.0	10.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)