

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: P1311389

Luminaire Tested: P3SQAS13R609050DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R609050DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 5000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

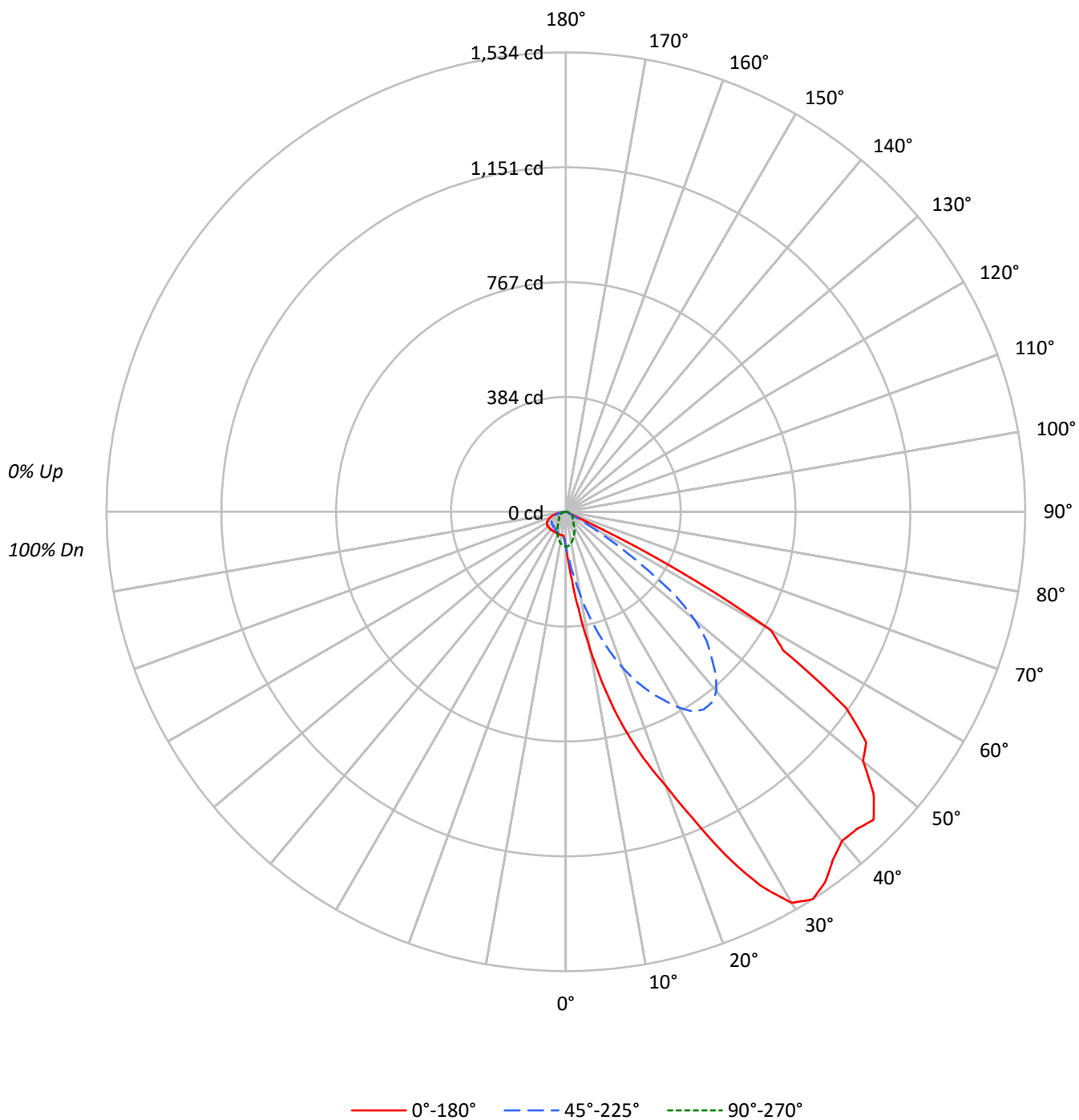
Lumens per Lamp: N/A
Luminaire Lumens: 1168.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19926	19926	19926	19926	19926
5°	39278	30652	19639	14868	14142
10°	81144	49946	18380	13553	13746
15°	132707	74956	16475	13622	14014
20°	178052	101571	14790	13617	14204
25°	240897	126102	12922	13511	14727
30°	299830	150124	10759	13523	15412
35°	317428	169205	9146	13834	16063
40°	322483	175922	8363	14321	17424
45°	354014	167569	8013	15247	18876
50°	347051	150202	7958	16210	20765
55°	343018	92120	7957	17535	22940
60°	272077	21941	8404	18634	24869
65°	17319	3912	8232	19031	26814
70°	3726	4280	8006	19789	28350
75°	3527	4259	7053	19097	28946
80°	3174	4166	7339	18943	27373
85°	2174	4150	8299	16796	27269

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 373663 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	1.2
10°-20°	72.8	6.2
20°-30°	168.9	14.5
30°-40°	262.5	22.5
40°-50°	299.2	25.6
50°-60°	252.0	21.6
60°-70°	73.1	6.3
70°-80°	18.7	1.6
80°-90°	6.3	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°	256.2	21.9
0°-40°	518.7	44.4
0°-60°	1069.8	91.6
0°-90°	1168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1168.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	116	116	116	116	116	
5°	227	177	114	86	82	29
15°	744	420	92	76	79	215
25°	1268	664	68	71	78	589
35°	1510	805	44	66	76	938
45°	1454	688	33	63	78	1093
55°	1142	307	26	58	76	961
65°	42	10	20	47	66	210
75°	5	6	11	29	44	6
85°	1	2	4	8	14	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°	115.7	115.7	115.7	115.7	115.7	115.7	115.7	115.7	115.7	115.7	115.7
2.5°	156.1	155.0	155.0	154.0	152.9	151.8	148.6	147.6	141.2	128.5	115.7
5°	227.2	226.1	223.0	221.9	216.6	209.2	201.7	194.3	177.3	141.2	113.6
7.5°	329.1	331.3	329.1	317.5	310.0	298.3	276.0	260.1	226.1	154.0	109.4
10°	464.0	464.0	460.8	442.7	426.8	404.5	375.9	348.2	285.6	165.6	105.1
12.5°	610.5	613.7	597.8	582.9	554.2	526.6	487.3	445.9	353.6	175.2	99.8
15°	744.3	742.1	726.2	707.1	677.4	639.2	597.8	544.7	420.4	181.6	92.4
17.5°	863.2	858.9	845.1	823.9	787.8	745.3	692.2	634.9	489.5	186.9	87.1
20°	971.5	956.6	940.7	918.4	883.4	838.8	783.6	718.8	554.2	186.9	80.7
22.5°	1108.4	1093.6	1071.3	1037.3	990.6	935.4	870.6	797.4	611.6	182.6	74.3
25°	1267.7	1256.0	1217.8	1174.3	1113.8	1047.9	972.5	873.8	663.6	176.2	68.0
27.5°	1406.8	1394.0	1355.8	1292.1	1218.9	1140.3	1060.7	959.8	709.2	164.6	60.5
30°	1507.7	1491.7	1462.0	1401.5	1312.3	1216.7	1122.2	1025.6	754.9	150.8	54.1
32.5°	1534.2	1532.1	1509.8	1465.2	1385.6	1280.4	1167.9	1062.8	791.0	132.7	48.8
35°	1509.8	1513.0	1508.7	1486.4	1428.0	1325.0	1197.6	1083.0	804.8	114.7	43.5
37.5°	1465.2	1469.4	1476.9	1480.0	1442.9	1351.6	1214.6	1091.5	801.6	96.6	40.3
40°	1434.4	1432.3	1432.3	1453.5	1446.1	1363.3	1216.7	1085.1	782.5	77.5	37.2
42.5°	1437.6	1414.2	1398.3	1432.3	1442.9	1357.9	1202.9	1068.1	741.1	59.5	34.0
45°	1453.5	1403.6	1376.0	1419.5	1436.5	1339.9	1177.5	1042.6	688.0	41.4	32.9
47.5°	1394.0	1361.1	1356.9	1418.5	1424.8	1309.1	1138.2	1002.3	637.0	28.7	30.8
50°	1295.3	1290.0	1312.3	1376.0	1377.1	1258.1	1093.6	929.0	560.6	20.2	29.7
52.5°	1264.5	1267.7	1287.9	1320.8	1290.0	1172.1	1012.9	867.4	464.0	15.9	28.7
55°	1142.4	1147.7	1166.8	1187.0	1164.7	1067.0	915.2	793.1	306.8	14.9	26.5
57.5°	860.0	873.8	908.8	926.9	929.0	869.6	829.2	683.8	173.1	14.9	25.5
60°	789.9	771.9	755.9	718.8	684.8	677.4	681.6	512.8	63.7	13.8	24.4
62.5°	413.0	404.5	428.9	444.9	449.1	472.5	441.7	270.7	13.8	13.8	22.3
65°	42.5	42.5	52.0	69.0	114.7	152.9	145.5	78.6	9.6	12.7	20.2
67.5°	12.7	12.7	12.7	14.9	19.1	19.1	15.9	11.7	9.6	11.7	18.0
70°	7.4	7.4	7.4	7.4	7.4	7.4	8.5	7.4	8.5	10.6	15.9
72.5°	6.4	6.4	6.4	6.4	7.4	7.4	7.4	7.4	7.4	9.6	13.8
75°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6.4	6.4	7.4	10.6
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	5.3	5.3	5.3	6.4	8.5
80°	3.2	3.2	3.2	3.2	3.2	4.2	4.2	4.2	4.2	5.3	7.4
82.5°	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2	3.2	4.2	5.3
85°	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	4.2
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	3.2
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°	115.7	115.7	115.7	115.7
2.5°	105.1	97.7	93.4	91.3
5°	95.6	86.0	82.8	81.8
7.5°	87.1	80.7	79.6	79.6
10°	81.8	77.5	78.6	78.6
12.5°	78.6	77.5	78.6	79.6
15°	75.4	76.4	78.6	78.6
17.5°	73.3	75.4	77.5	78.6
20°	70.1	74.3	77.5	77.5
22.5°	68.0	73.3	76.4	77.5
25°	65.8	71.1	75.4	77.5
27.5°	62.6	70.1	75.4	76.4
30°	59.5	68.0	74.3	77.5
32.5°	56.3	66.9	74.3	76.4
35°	54.1	65.8	74.3	76.4
37.5°	52.0	64.8	74.3	77.5
40°	51.0	63.7	73.3	77.5
42.5°	48.8	63.7	73.3	77.5
45°	47.8	62.6	73.3	77.5
47.5°	46.7	61.6	73.3	77.5
50°	44.6	60.5	72.2	77.5
52.5°	43.5	59.5	72.2	77.5
55°	41.4	58.4	71.1	76.4
57.5°	40.3	56.3	70.1	74.3
60°	38.2	54.1	68.0	72.2
62.5°	35.0	51.0	64.8	70.1
65°	31.9	46.7	61.6	65.8
67.5°	28.7	43.5	57.3	61.6
70°	25.5	39.3	52.0	56.3
72.5°	22.3	34.0	46.7	49.9
75°	19.1	28.7	39.3	43.5
77.5°	14.9	23.4	32.9	36.1
80°	11.7	19.1	25.5	27.6
82.5°	9.6	13.8	19.1	20.2
85°	6.4	8.5	11.7	13.8
87.5°	3.2	4.2	5.3	6.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)