

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: P1308076

Luminaire Tested: P3SQAS13R609030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308076
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: P3SQAS13R609030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

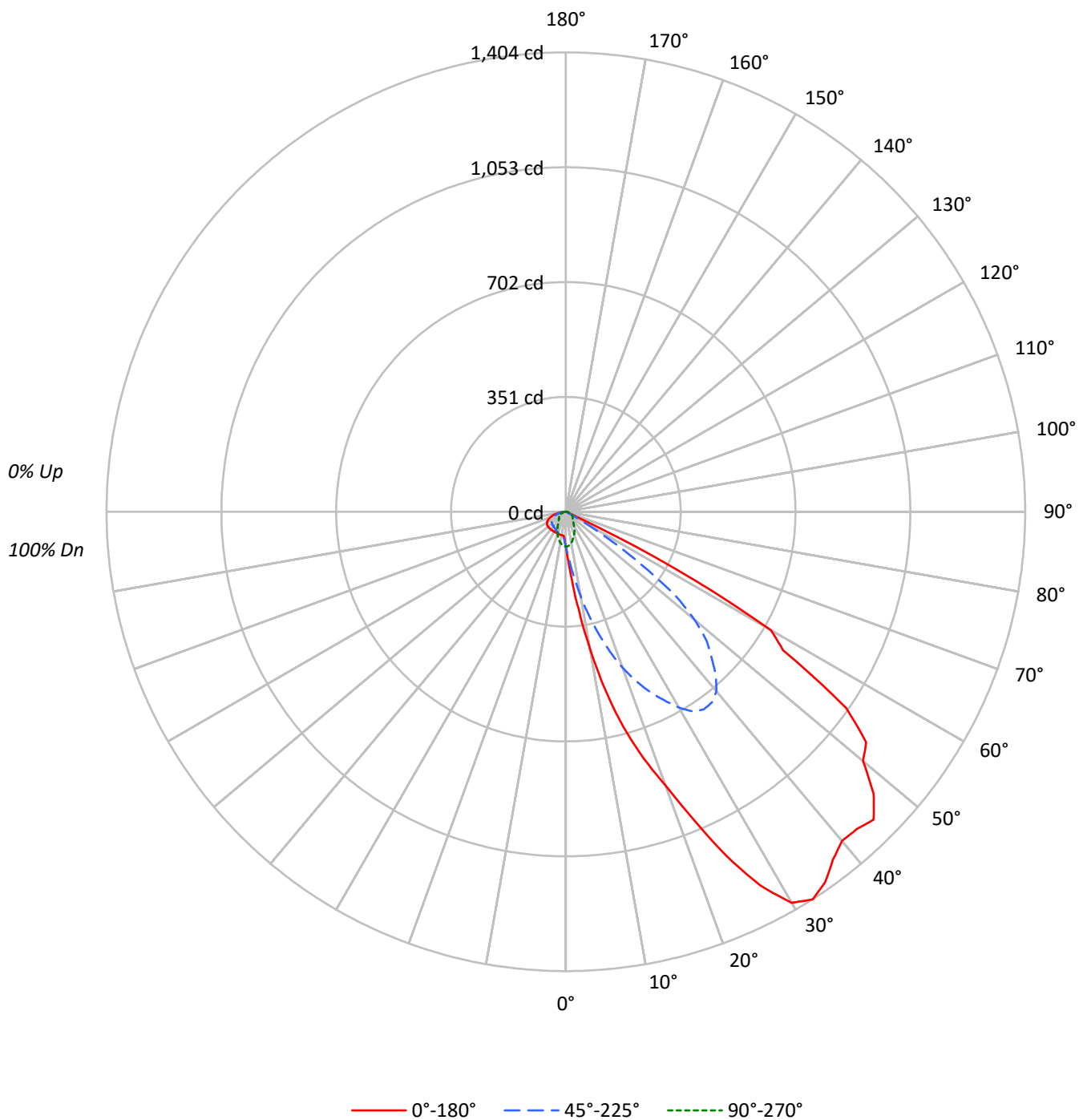
Lumens per Lamp: N/A
Luminaire Lumens: 1069.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	18238	18238	18238	18238	18238
5°	35959	28059	17980	13606	12931
10°	74254	45713	16823	12399	12574
15°	121457	68609	15066	12481	12820
20°	162950	92957	13544	12463	12994
25°	220488	115403	11820	12371	13473
30°	274415	137396	9864	12369	14100
35°	290517	154866	8368	12657	14717
40°	295145	161017	7644	13107	15940
45°	324007	153369	7331	13956	17268
50°	317632	137475	7288	14843	18996
55°	313953	84313	7296	16034	21018
60°	249034	20081	7681	17084	22768
65°	15852	3545	7539	17442	24532
70°	3424	3928	7352	18128	25933
75°	3261	3859	6455	17434	26484
80°	2876	3868	6744	17356	25092
85°	1976	3754	7707	15413	24898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 341978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	1.2
10°-20°	66.6	6.2
20°-30°	154.6	14.5
30°-40°	240.3	22.5
40°-50°	273.8	25.6
50°-60°	230.6	21.6
60°-70°	66.9	6.3
70°-80°	17.1	1.6
80°-90°	5.8	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°	234.4	21.9
0°-40°	474.7	44.4
0°-60°	979.1	91.6
0°-90°	1069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	106	106	106	106	106	
5°	208	162	104	79	75	27
15°	681	385	84	70	72	197
25°	1160	607	62	65	71	539
35°	1382	737	40	60	70	858
45°	1330	630	30	57	71	1000
55°	1046	281	24	53	70	880
65°	39	9	18	43	60	192
75°	5	6	10	26	40	5
85°	1	2	4	8	13	1
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°	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9
2.5°	142.8	141.9	141.9	140.9	139.9	139.0	136.0	135.1	129.2	117.6	105.9
5°	208.0	207.0	204.1	203.1	198.2	191.4	184.6	177.8	162.3	129.2	104.0
7.5°	301.2	303.2	301.2	290.5	283.7	273.1	252.7	238.1	207.0	140.9	100.1
10°	424.6	424.6	421.7	405.2	390.6	370.2	344.0	318.7	261.4	151.6	96.2
12.5°	558.7	561.7	547.1	533.5	507.2	482.0	446.0	408.1	323.6	160.3	91.3
15°	681.2	679.2	664.7	647.2	620.0	585.0	547.1	498.5	384.8	166.2	84.5
17.5°	790.0	786.1	773.5	754.1	721.0	682.2	633.6	581.1	448.0	171.0	79.7
20°	889.1	875.5	861.0	840.6	808.5	767.7	717.1	657.9	507.2	171.0	73.9
22.5°	1014.5	1000.9	980.5	949.4	906.6	856.1	796.8	729.8	559.7	167.1	68.0
25°	1160.3	1149.6	1114.6	1074.7	1019.4	959.1	890.1	799.7	607.3	161.3	62.2
27.5°	1287.5	1275.9	1240.9	1182.6	1115.6	1043.6	970.8	878.4	649.1	150.6	55.4
30°	1379.9	1365.3	1338.1	1282.7	1201.1	1113.6	1027.1	938.7	690.9	138.0	49.6
32.5°	1404.2	1402.2	1381.8	1341.0	1268.1	1171.9	1068.9	972.7	723.9	121.5	44.7
35°	1381.8	1384.7	1380.8	1360.4	1307.0	1212.7	1096.1	991.2	736.6	104.9	39.8
37.5°	1341.0	1344.9	1351.7	1354.6	1320.6	1237.0	1111.7	998.9	733.7	88.4	36.9
40°	1312.8	1310.9	1310.9	1330.3	1323.5	1247.7	1113.6	993.1	716.2	70.9	34.0
42.5°	1315.7	1294.4	1279.8	1310.9	1320.6	1242.8	1101.0	977.6	678.3	54.4	31.1
45°	1330.3	1284.6	1259.4	1299.2	1314.8	1226.3	1077.7	954.2	629.7	37.9	30.1
47.5°	1275.9	1245.8	1241.9	1298.2	1304.1	1198.1	1041.7	917.3	583.0	26.2	28.2
50°	1185.5	1180.7	1201.1	1259.4	1260.3	1151.5	1000.9	850.3	513.1	18.5	27.2
52.5°	1157.3	1160.3	1178.7	1208.8	1180.7	1072.8	927.0	793.9	424.6	14.6	26.2
55°	1045.6	1050.4	1067.9	1086.4	1066.0	976.6	837.6	725.9	280.8	13.6	24.3
57.5°	787.1	799.7	831.8	848.3	850.3	795.9	758.9	625.8	158.4	13.6	23.3
60°	723.0	706.5	691.9	657.9	626.8	620.0	623.9	469.3	58.3	12.6	22.3
62.5°	378.0	370.2	392.6	407.2	411.0	432.4	404.2	247.8	12.6	12.6	20.4
65°	38.9	38.9	47.6	63.2	104.9	139.9	133.1	71.9	8.7	11.7	18.5
67.5°	11.7	11.7	11.7	13.6	17.5	17.5	14.6	10.7	8.7	10.7	16.5
70°	6.8	6.8	6.8	6.8	6.8	6.8	7.8	6.8	7.8	9.7	14.6
72.5°	5.8	5.8	5.8	5.8	6.8	6.8	6.8	6.8	6.8	8.7	12.6
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.8	5.8	6.8	9.7
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	4.9	4.9	4.9	5.8	7.8
80°	2.9	2.9	2.9	2.9	2.9	3.9	3.9	3.9	3.9	4.9	6.8
82.5°	1.9	1.9	1.9	1.9	2.9	2.9	2.9	2.9	2.9	3.9	4.9
85°	1.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.9	3.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9	2.9
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°	105.9	105.9	105.9	105.9
2.5°	96.2	89.4	85.5	83.6
5°	87.5	78.7	75.8	74.8
7.5°	79.7	73.9	72.9	72.9
10°	74.8	70.9	71.9	71.9
12.5°	71.9	70.9	71.9	72.9
15°	69.0	70.0	71.9	71.9
17.5°	67.0	69.0	70.9	71.9
20°	64.1	68.0	70.9	70.9
22.5°	62.2	67.0	70.0	70.9
25°	60.2	65.1	69.0	70.9
27.5°	57.3	64.1	69.0	70.0
30°	54.4	62.2	68.0	70.9
32.5°	51.5	61.2	68.0	70.0
35°	49.6	60.2	68.0	70.0
37.5°	47.6	59.3	68.0	70.9
40°	46.6	58.3	67.0	70.9
42.5°	44.7	58.3	67.0	70.9
45°	43.7	57.3	67.0	70.9
47.5°	42.8	56.4	67.0	70.9
50°	40.8	55.4	66.1	70.9
52.5°	39.8	54.4	66.1	70.9
55°	37.9	53.4	65.1	70.0
57.5°	36.9	51.5	64.1	68.0
60°	35.0	49.6	62.2	66.1
62.5°	32.1	46.6	59.3	64.1
65°	29.2	42.8	56.4	60.2
67.5°	26.2	39.8	52.5	56.4
70°	23.3	36.0	47.6	51.5
72.5°	20.4	31.1	42.8	45.7
75°	17.5	26.2	36.0	39.8
77.5°	13.6	21.4	30.1	33.0
80°	10.7	17.5	23.3	25.3
82.5°	8.7	12.6	17.5	18.5
85°	5.8	7.8	10.7	12.6
87.5°	2.9	3.9	4.9	5.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)