

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: P1312312

Luminaire Tested: P3SQAS09R459727DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312312
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: P3SQAS09R459727DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

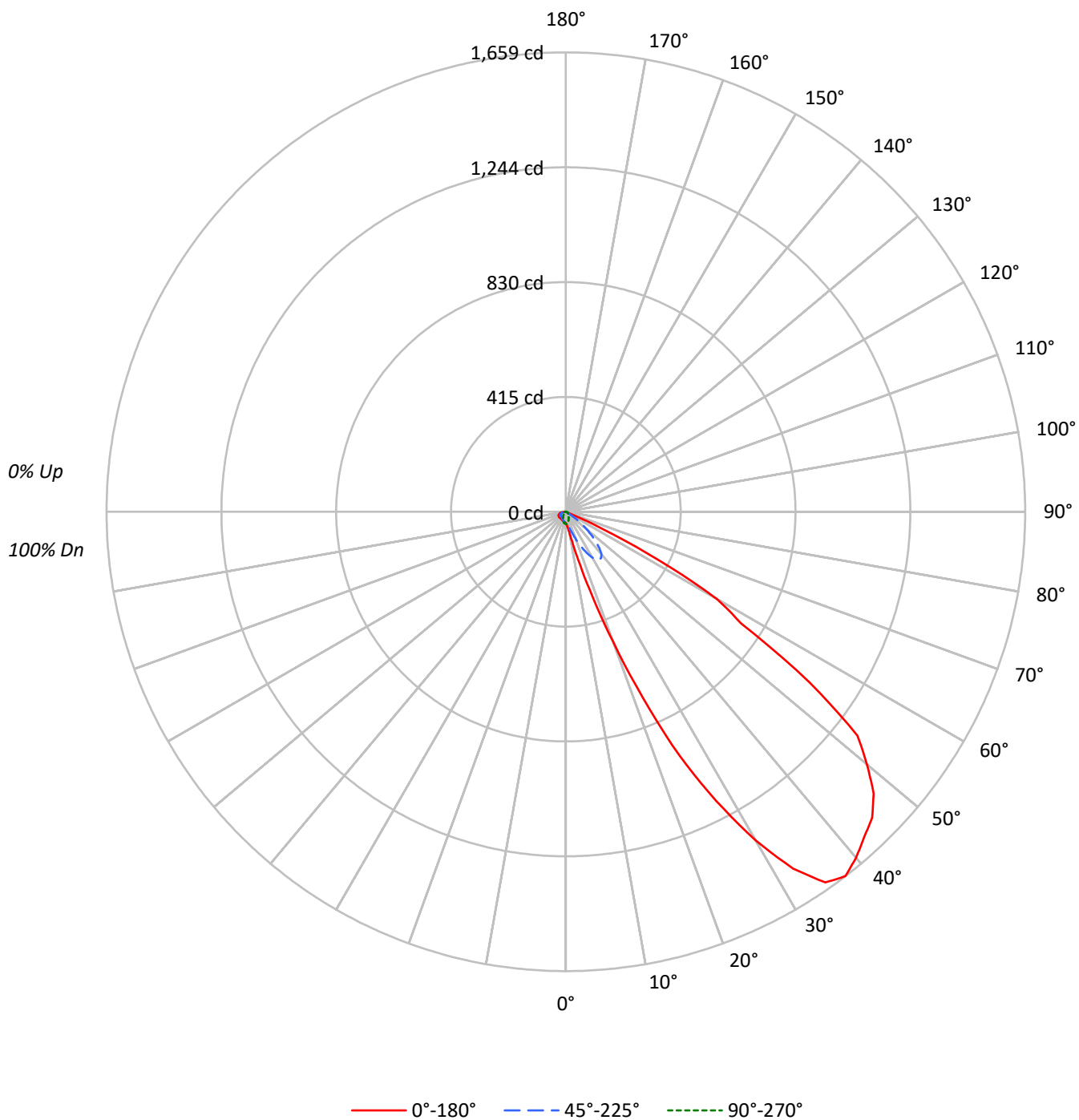
Lumens per Lamp: N/A
Luminaire Lumens: 741.0 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	99		107	104	100	97		99	97	94		96	93	91		92	90	88
2	100	93	86	81		98	91	85	80		87	83	78		84	80	77		81	78	75
3	91	81	73	67		89	80	72	66		77	70	65		74	69	64		71	67	63
4	83	71	62	56		81	70	62	55		67	60	55		65	59	54		63	58	53
5	76	63	53	47		73	61	53	46		59	52	46		57	51	45		55	50	45
6	69	55	46	39		67	54	46	39		52	45	39		51	44	39		49	43	38
7	63	49	40	34		61	48	40	33		47	39	33		45	38	33		44	37	33
8	58	44	35	29		56	43	35	29		42	34	29		40	33	28		39	33	28
9	53	39	31	25		52	39	30	25		38	30	25		36	29	25		35	29	24
10	49	36	27	22		48	35	27	22		34	27	21		33	26	21		32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7388	7388	7388	7388	7388
5°	8782	8143	7296	6777	6777
10°	14025	9531	6855	6418	6418
15°	34929	12766	6223	6009	6223
20°	92023	19079	5388	5718	6066
25°	184763	28276	4656	5359	5929
30°	272366	37864	3778	5230	6085
35°	343561	44404	3217	5151	6307
40°	366570	44874	2900	5373	6745
45°	380854	37435	2679	5821	7307
50°	380247	26096	2626	6243	8199
55°	323201	11590	2762	6996	9008
60°	217207	2308	2756	7819	10333
65°	57622	978	2730	8476	11736
70°	1561	1209	2769	9265	13243
75°	1198	1198	2861	9782	15105
80°	1190	1785	3075	10315	16960
85°	1186	2371	4742	10868	16994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 390668 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.6
10°-20°	20.9	2.8
20°-30°	86.2	11.6
30°-40°	181.7	24.5
40°-50°	224.1	30.2
50°-60°	168.0	22.7
60°-70°	43.2	5.8
70°-80°	8.9	1.2
80°-90°	3.6	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°	111.4	15.0
0°-40°	293.0	39.5
0°-60°	685.2	92.5
0°-90°	741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	51	47	42	39	39	6
15°	196	72	35	34	35	72
25°	972	149	24	28	31	453
35°	1634	211	15	24	30	996
45°	1564	154	11	24	30	1197
55°	1076	39	9	23	30	929
65°	141	2	7	21	29	204
75°	2	2	4	15	23	2
85°	1	1	2	6	9	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°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	44.7	44.1	42.9	41.6
5°	50.8	50.2	50.2	50.2	49.6	49.0	49.0	47.1	44.7	42.2	40.4
7.5°	60.0	60.0	59.4	58.2	57.6	56.3	55.1	50.2	44.7	41.0	38.6
10°	80.2	79.0	77.1	75.9	72.9	68.6	65.5	54.5	44.1	39.2	37.3
12.5°	120.0	122.5	116.3	110.2	101.6	93.7	83.9	61.8	44.1	37.3	35.5
15°	195.9	200.2	188.6	176.3	155.5	135.9	117.6	71.6	42.9	34.9	33.1
17.5°	320.2	325.7	306.1	277.4	244.9	205.7	172.0	85.1	41.6	32.5	31.2
20°	502.1	501.4	463.5	427.4	364.9	307.4	244.3	104.1	39.8	29.4	29.4
22.5°	725.5	728.0	681.5	616.6	527.8	435.3	334.9	126.1	37.3	26.9	27.6
25°	972.3	951.5	896.4	817.4	704.1	576.1	443.9	148.8	34.9	24.5	25.7
27.5°	1178.0	1157.8	1094.7	1001.1	879.2	727.4	554.7	171.4	31.8	22.0	23.9
30°	1369.6	1343.9	1268.0	1162.1	1017.0	852.9	658.8	190.4	28.2	19.0	22.0
32.5°	1527.6	1504.3	1418.0	1295.0	1137.0	960.7	747.0	205.1	24.5	17.1	20.8
35°	1634.1	1610.3	1530.7	1395.4	1223.3	1039.0	818.6	211.2	21.4	15.3	20.2
37.5°	1658.6	1645.8	1588.8	1462.1	1282.7	1089.2	864.5	209.4	17.8	14.1	19.0
40°	1630.5	1633.5	1606.6	1501.3	1314.5	1110.7	883.5	199.6	14.7	12.9	18.4
42.5°	1594.4	1602.3	1600.5	1517.2	1328.0	1111.9	875.5	180.0	11.6	11.6	17.8
45°	1563.7	1571.7	1582.7	1510.5	1318.8	1096.0	850.4	153.7	8.6	11.0	17.8
47.5°	1508.0	1516.6	1532.5	1456.6	1272.3	1054.9	805.1	124.9	6.1	10.4	17.1
50°	1419.2	1423.5	1419.2	1334.1	1182.9	988.8	731.7	97.4	4.3	9.8	17.1
52.5°	1328.0	1319.4	1283.9	1176.2	1040.9	884.1	639.2	69.2	3.1	9.2	16.5
55°	1076.4	1062.9	1036.6	970.4	893.3	755.5	516.8	38.6	3.1	9.2	15.9
57.5°	750.0	757.4	766.6	753.1	717.6	595.1	392.5	17.1	3.1	8.6	15.9
60°	630.6	624.5	625.1	616.6	557.8	434.1	270.0	6.7	3.1	8.0	15.3
62.5°	376.5	380.8	388.8	390.6	332.5	242.5	141.4	3.1	3.1	7.3	14.7
65°	141.4	148.2	129.8	112.7	89.4	65.5	33.1	2.4	3.7	6.7	13.5
67.5°	4.3	4.9	6.1	5.5	5.5	4.9	3.7	2.4	3.7	6.1	12.9
70°	3.1	3.1	3.1	3.1	3.1	2.4	2.4	2.4	3.1	5.5	11.6
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1	4.9	10.4
75°	1.8	2.4	1.8	1.8	1.8	1.8	1.8	1.8	3.1	4.3	8.6
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.4	3.7	7.3
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.4	3.1	6.1
82.5°	1.2	1.2	1.2	0.6	1.2	1.2	1.2	1.2	2.4	2.4	4.9
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.8	2.4	3.1
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	1.2	1.8	1.8	1.8
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°	42.9	42.9	42.9
2.5°	40.4	40.4	40.4
5°	39.2	39.2	39.2
7.5°	38.0	38.0	38.0
10°	36.7	36.7	36.7
12.5°	35.5	35.5	36.1
15°	33.7	34.9	34.9
17.5°	32.5	33.7	34.3
20°	31.2	32.5	33.1
22.5°	29.4	31.2	32.5
25°	28.2	30.6	31.2
27.5°	26.9	30.0	31.2
30°	26.3	29.4	30.6
32.5°	25.1	28.8	30.0
35°	24.5	28.8	30.0
37.5°	24.5	28.2	30.0
40°	23.9	28.2	30.0
42.5°	23.9	28.2	30.0
45°	23.9	28.2	30.0
47.5°	23.3	28.2	30.6
50°	23.3	28.8	30.6
52.5°	23.3	28.8	30.6
55°	23.3	28.8	30.0
57.5°	22.7	28.2	30.0
60°	22.7	28.2	30.0
62.5°	21.4	27.6	29.4
65°	20.8	26.9	28.8
67.5°	19.6	26.3	27.6
70°	18.4	24.5	26.3
72.5°	16.5	23.3	25.1
75°	14.7	21.4	22.7
77.5°	12.9	19.0	20.2
80°	10.4	15.9	17.1
82.5°	8.0	12.2	12.9
85°	5.5	8.0	8.6
87.5°	2.4	3.7	4.3
90°	0.0	0.0	0.0

(END OF REPORT)