

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: P1310126

Luminaire Tested: P3SQAS09R509040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310126
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: P3SQAS09R509040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

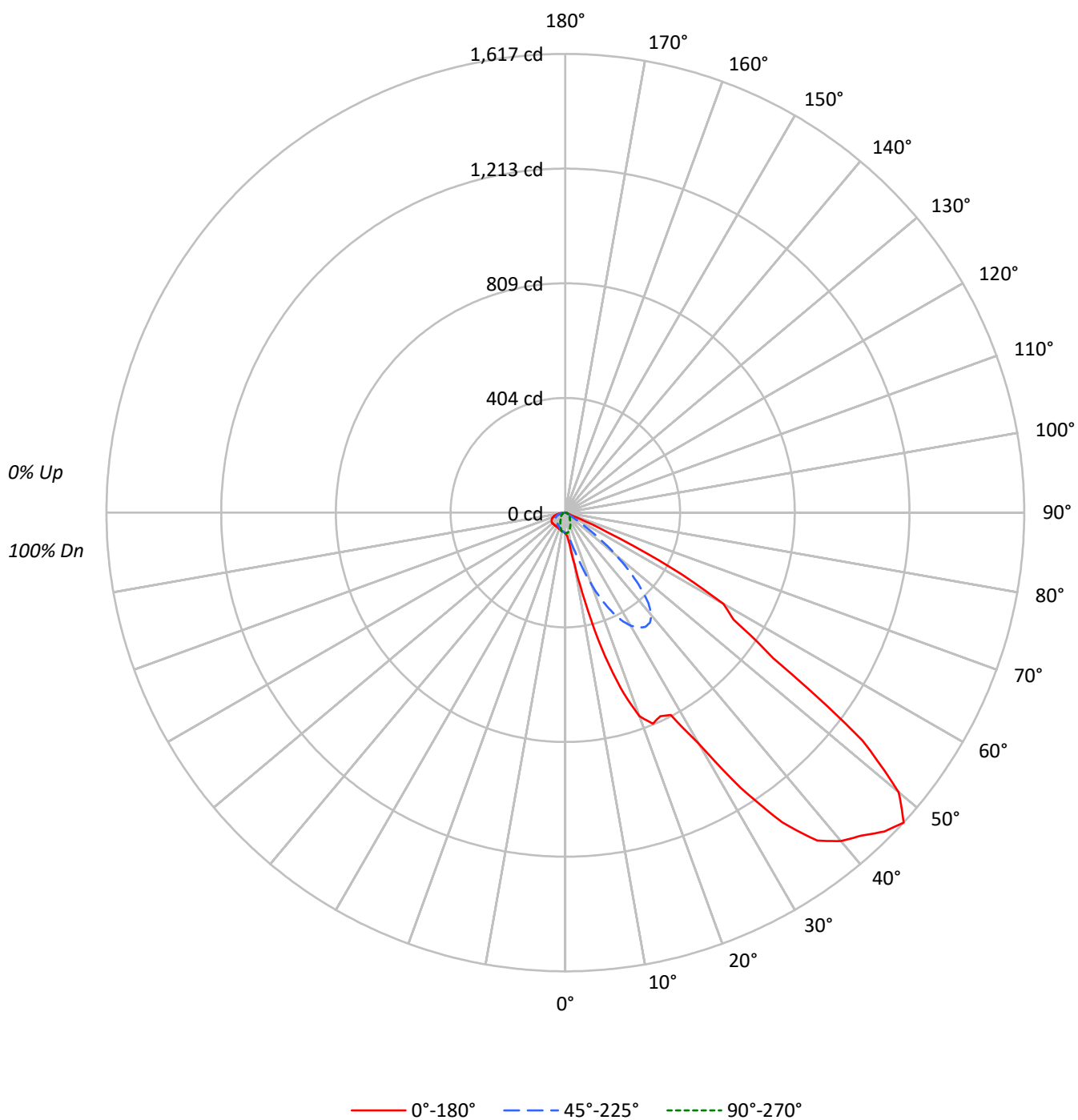
Lumens per Lamp: N/A
Luminaire Lumens: 912.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1310126

CATALOG NUMBER: P3SQAS09R509040DE010 E3SQCA451MMS

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	0
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°	12486	12486	12486	12486	12486
5°	14850	13882	12396	11842	11704
10°	31968	17226	11839	11437	11577
15°	88489	28225	10680	10947	11375
20°	139894	49521	9237	10538	11125
25°	150444	72742	7924	10185	11231
30°	186735	91319	6901	10023	11594
35°	280215	103335	5971	10113	12257
40°	339861	106250	5306	10454	12927
45°	387162	91140	5188	11131	14200
50°	410926	62883	5278	12030	15835
55°	268463	25312	5195	13001	17505
60°	221409	4340	5167	14122	19254
65°	66751	2241	4809	15078	21191
70°	2769	2367	4784	15459	23012
75°	2595	2595	4724	15704	25153
80°	2380	2380	4661	15670	25787
85°	1581	3162	6323	15611	24898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 412259 cd/sqm

TEST NUMBER: P1310126

CATALOG NUMBER: P3SQAS09R509040DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.8
10°-20°	43.2	4.7
20°-30°	111.0	12.2
30°-40°	199.4	21.9
40°-50°	266.4	29.2
50°-60°	202.9	22.2
60°-70°	61.6	6.8
70°-80°	14.7	1.6
80°-90°	5.3	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°	161.7	17.7
0°-40°	361.2	39.6
0°-60°	830.4	91.1
0°-90°	912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	912.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	72	72	72	72	72	
5°	86	80	72	68	68	11
15°	496	158	60	61	64	146
25°	792	383	42	54	59	378
35°	1333	492	28	48	58	818
45°	1590	374	21	46	58	1215
55°	894	84	17	43	58	889
65°	164	6	12	37	52	227
75°	4	4	7	24	38	4
85°	1	2	3	8	13	1
90°	0	0	0	0	0	

TEST NUMBER: P1310126

CATALOG NUMBER: P3SQAS09R509040DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
2.5°	77.2	77.2	77.2	77.2	77.2	77.2	76.4	76.4	76.4	74.8	73.3
5°	85.9	86.7	85.9	85.9	84.3	84.3	82.7	82.7	80.3	75.6	71.7
7.5°	112.6	111.9	111.1	107.9	105.6	100.0	97.7	93.7	86.7	75.6	70.1
10°	182.8	178.0	174.9	167.8	152.8	143.4	130.8	118.2	98.5	75.6	67.7
12.5°	317.5	316.7	307.2	283.6	262.3	233.2	202.4	171.7	121.3	74.0	64.6
15°	496.3	489.2	475.8	448.2	410.4	364.7	309.6	255.2	158.3	71.7	59.9
17.5°	649.1	640.4	630.2	602.6	559.3	501.8	435.6	360.8	208.7	68.5	55.1
20°	763.3	757.8	749.1	727.1	686.1	634.1	560.1	469.5	270.2	64.6	50.4
22.5°	805.1	804.3	805.8	798.0	777.5	736.5	665.6	571.1	330.8	59.9	45.7
25°	791.7	790.9	801.1	811.4	816.1	799.5	745.2	653.0	382.8	55.9	41.7
27.5°	804.3	801.9	797.2	798.8	812.1	821.6	796.4	716.0	427.7	50.4	37.8
30°	939.0	925.6	904.3	868.1	841.3	838.9	827.9	765.7	459.2	44.9	34.7
32.5°	1149.3	1132.8	1094.2	1027.2	963.4	914.6	879.9	807.4	481.3	39.4	30.7
35°	1332.8	1321.0	1276.1	1210.0	1118.6	1027.2	964.2	868.9	491.5	34.7	28.4
37.5°	1457.3	1452.6	1408.5	1337.6	1244.6	1136.7	1053.2	931.9	489.2	29.1	26.0
40°	1511.7	1497.5	1460.5	1400.6	1306.8	1210.0	1121.7	972.1	472.6	23.6	23.6
42.5°	1544.0	1528.2	1488.0	1431.3	1339.1	1235.9	1129.6	954.7	433.3	18.9	22.8
45°	1589.6	1573.1	1520.3	1459.7	1366.7	1247.0	1098.9	893.3	374.2	14.2	21.3
47.5°	1617.2	1606.2	1566.8	1506.1	1393.5	1231.2	1028.0	835.8	308.8	11.0	20.5
50°	1533.7	1522.7	1493.5	1451.8	1376.2	1178.4	965.8	742.8	234.7	8.7	19.7
52.5°	1320.2	1329.7	1335.2	1347.0	1291.9	1060.3	872.8	668.8	158.3	7.1	18.1
55°	894.1	908.3	924.0	971.3	1035.9	943.7	775.1	578.2	84.3	7.1	17.3
57.5°	702.7	697.9	693.2	690.1	740.5	778.3	681.4	462.4	36.2	7.1	15.8
60°	642.8	628.6	619.2	621.5	646.7	631.8	539.6	301.7	12.6	7.1	15.0
62.5°	421.4	432.5	453.7	490.0	472.6	405.7	313.5	119.7	6.3	7.1	13.4
65°	163.8	158.3	163.8	174.1	150.5	111.9	70.1	21.3	5.5	6.3	11.8
67.5°	22.1	19.7	15.0	9.5	8.7	7.9	6.3	5.5	5.5	6.3	11.0
70°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	4.7	4.7	5.5	9.5
72.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5.5	7.9
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.7	7.1
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.9	5.5
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2	4.7
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.2	3.9
85°	0.8	1.6	0.8	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.2
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1310126

CATALOG NUMBER: P3SQAS09R509040DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	72.5	72.5	72.5	72.5
2.5°	71.7	70.1	70.1	70.1
5°	70.1	68.5	68.5	67.7
7.5°	67.7	67.0	67.0	67.0
10°	66.2	65.4	66.2	66.2
12.5°	63.0	63.8	64.6	64.6
15°	59.9	61.4	63.0	63.8
17.5°	56.7	59.9	61.4	62.2
20°	53.6	57.5	59.9	60.7
22.5°	51.2	55.1	58.3	59.9
25°	48.1	53.6	57.5	59.1
27.5°	44.9	51.2	55.9	58.3
30°	42.5	50.4	55.9	58.3
32.5°	40.2	48.8	55.1	57.5
35°	38.6	48.1	55.1	58.3
37.5°	37.0	47.3	55.1	57.5
40°	36.2	46.5	55.1	57.5
42.5°	35.4	46.5	55.1	58.3
45°	33.9	45.7	55.1	58.3
47.5°	33.1	45.7	55.1	58.3
50°	32.3	44.9	55.1	59.1
52.5°	31.5	44.1	55.1	59.1
55°	29.9	43.3	54.4	58.3
57.5°	29.1	42.5	53.6	56.7
60°	27.6	41.0	52.0	55.9
62.5°	26.0	39.4	50.4	53.6
65°	23.6	37.0	48.1	52.0
67.5°	21.3	33.9	45.7	49.6
70°	18.9	30.7	42.5	45.7
72.5°	16.5	27.6	39.4	41.7
75°	14.2	23.6	34.7	37.8
77.5°	11.8	20.5	29.1	31.5
80°	8.7	15.8	23.6	26.0
82.5°	7.1	11.8	17.3	18.9
85°	4.7	7.9	11.0	12.6
87.5°	2.4	3.9	5.5	6.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)