

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: P1314255

Luminaire Tested: P3SQAS09R459735DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314255
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: P3SQAS09R459735DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

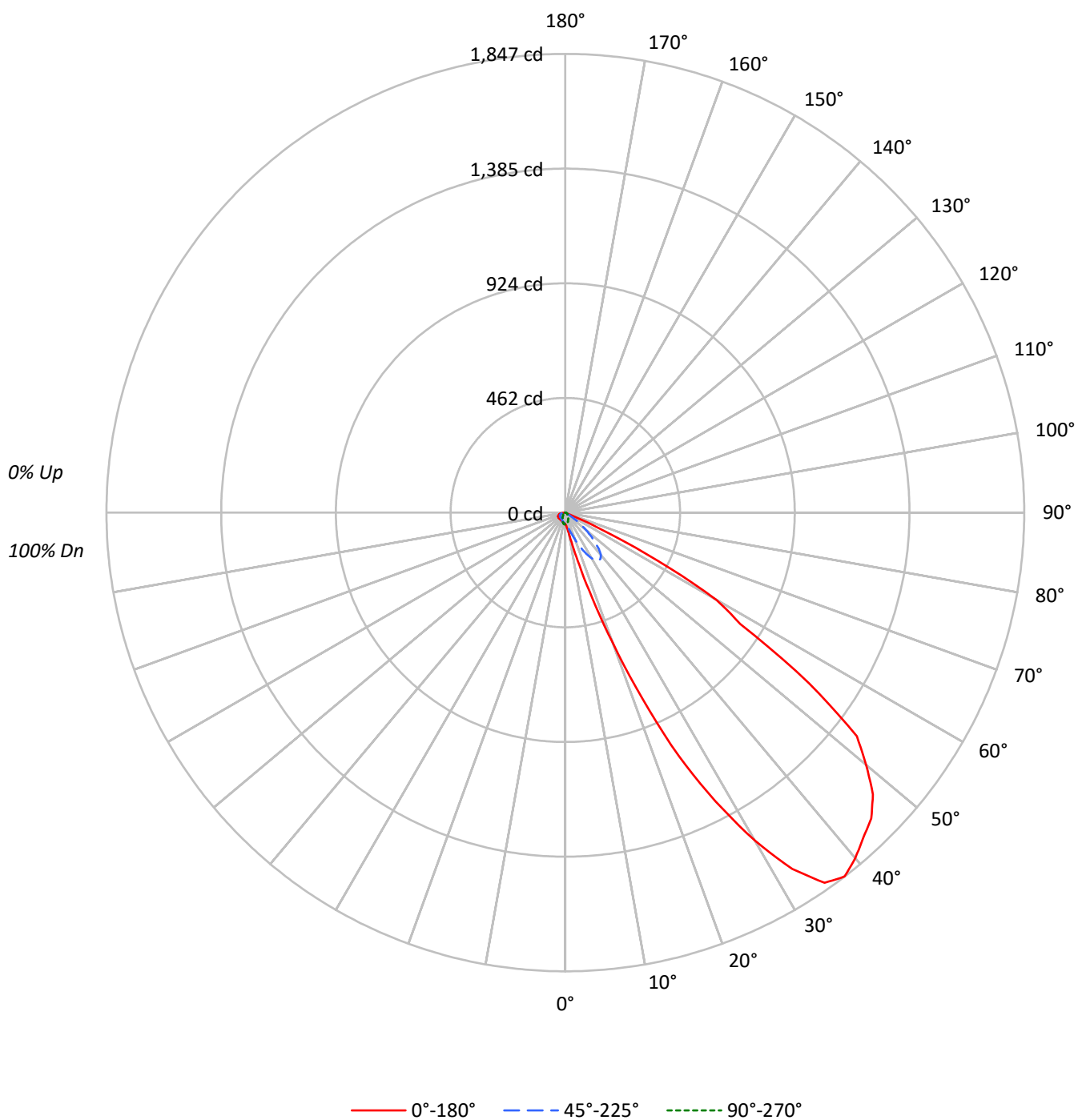
Lumens per Lamp: N/A
Luminaire Lumens: 825.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1314255

CATALOG NUMBER: P3SQAS09R459735DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1314255

CATALOG NUMBER: P3SQAS09R459735DE010 E3SQCA451MB

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°	8215	8215	8215	8215	8215
5°	9785	9076	8125	7538	7538
10°	15617	10615	7625	7153	7153
15°	38887	14228	6936	6686	6936
20°	102451	21242	5993	6378	6745
25°	205704	31468	5188	5967	6613
30°	303250	42160	4196	5827	6781
35°	382520	49450	3574	5740	7022
40°	408117	49955	3215	5980	7509
45°	424037	41673	2996	6479	8135
50°	423358	29044	2920	6939	9136
55°	359833	12881	3063	7777	10029
60°	241835	2583	3066	8680	11504
65°	64183	1100	3056	9454	13040
70°	1712	1360	3072	10323	14754
75°	1331	1331	3194	10913	16769
80°	1389	1984	3372	11505	18943
85°	1383	2766	5335	12054	18772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 434947 cd/sqm

TEST NUMBER: P1314255

CATALOG NUMBER: P3SQAS09R459735DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.6
10°-20°	23.3	2.8
20°-30°	96.0	11.6
30°-40°	202.3	24.5
40°-50°	249.6	30.2
50°-60°	187.0	22.7
60°-70°	48.1	5.8
70°-80°	10.0	1.2
80°-90°	4.0	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°	124.0	15.0
0°-40°	326.3	39.5
0°-60°	762.8	92.5
0°-90°	825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	825.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	57	52	47	44	44	6
15°	218	80	39	38	39	80
25°	1082	166	27	31	35	504
35°	1819	235	17	27	33	1109
45°	1741	171	12	27	33	1332
55°	1198	43	10	26	33	1035
65°	158	3	8	23	32	227
75°	2	2	5	16	25	2
85°	1	1	3	6	10	1
90°	0	0	0	0	0	

TEST NUMBER: P1314255

CATALOG NUMBER: P3SQAS09R459735DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	49.8	49.1	47.7	46.4
5°	56.6	55.9	55.9	55.9	55.2	54.5	54.5	52.5	49.8	47.0	45.0
7.5°	66.8	66.8	66.1	64.8	64.1	62.7	61.4	55.9	49.8	45.7	42.9
10°	89.3	87.9	85.9	84.5	81.1	76.3	72.9	60.7	49.1	43.6	41.6
12.5°	133.6	136.3	129.5	122.7	113.2	104.3	93.4	68.8	49.1	41.6	39.5
15°	218.1	222.9	210.0	196.3	173.1	151.3	130.9	79.8	47.7	38.9	36.8
17.5°	356.5	362.7	340.8	308.8	272.7	229.0	191.6	94.8	46.4	36.1	34.8
20°	559.0	558.3	516.0	475.8	406.3	342.2	272.0	115.9	44.3	32.7	32.7
22.5°	807.8	810.5	758.7	686.4	587.6	484.7	372.9	140.4	41.6	30.0	30.7
25°	1082.5	1059.3	998.0	910.0	783.9	641.5	494.2	165.6	38.9	27.3	28.6
27.5°	1311.5	1289.1	1218.8	1114.5	978.9	809.8	617.6	190.9	35.4	24.5	26.6
30°	1524.9	1496.3	1411.8	1293.8	1132.3	949.6	733.5	212.0	31.4	21.1	24.5
32.5°	1700.8	1674.9	1578.8	1441.7	1265.9	1069.6	831.6	228.4	27.3	19.1	23.2
35°	1819.4	1792.8	1704.2	1553.5	1362.0	1156.8	911.4	235.2	23.9	17.0	22.5
37.5°	1846.7	1832.3	1769.0	1627.8	1428.1	1212.7	962.5	233.1	19.8	15.7	21.1
40°	1815.3	1818.7	1788.7	1671.5	1463.6	1236.6	983.7	222.2	16.4	14.3	20.5
42.5°	1775.1	1784.0	1781.9	1689.2	1478.6	1237.9	974.8	200.4	13.0	13.0	19.8
45°	1741.0	1749.9	1762.1	1681.7	1468.3	1220.2	946.9	171.1	9.5	12.3	19.8
47.5°	1679.0	1688.5	1706.2	1621.7	1416.5	1174.5	896.4	139.1	6.8	11.6	19.1
50°	1580.1	1584.9	1580.1	1485.4	1317.0	1100.9	814.6	108.4	4.8	10.9	19.1
52.5°	1478.6	1469.0	1429.5	1309.5	1158.9	984.3	711.7	77.0	3.4	10.2	18.4
55°	1198.4	1183.4	1154.1	1080.5	994.6	841.2	575.3	42.9	3.4	10.2	17.7
57.5°	835.1	843.2	853.5	838.5	798.9	662.6	437.0	19.1	3.4	9.5	17.7
60°	702.1	695.3	696.0	686.4	621.0	483.3	300.6	7.5	3.4	8.9	17.0
62.5°	419.2	424.0	432.9	434.9	370.2	269.9	157.5	3.4	3.4	8.2	16.4
65°	157.5	165.0	144.5	125.4	99.5	72.9	36.8	2.7	4.1	7.5	15.0
67.5°	4.8	5.5	6.8	6.1	6.1	5.5	4.1	2.7	4.1	6.8	14.3
70°	3.4	3.4	3.4	3.4	3.4	2.7	2.7	2.7	3.4	6.1	13.0
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4	5.5	11.6
75°	2.0	2.7	2.0	2.0	2.0	2.0	2.0	2.0	3.4	4.8	9.5
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	4.1	8.2
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.7	3.4	6.8
82.5°	1.4	1.4	1.4	0.7	1.4	1.4	1.4	1.4	2.7	2.7	5.5
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.0	2.7	3.4
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.4	2.0	2.0	2.0
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: P1314255

CATALOG NUMBER: P3SQAS09R459735DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	47.7	47.7	47.7
2.5°	45.0	45.0	45.0
5°	43.6	43.6	43.6
7.5°	42.3	42.3	42.3
10°	40.9	40.9	40.9
12.5°	39.5	39.5	40.2
15°	37.5	38.9	38.9
17.5°	36.1	37.5	38.2
20°	34.8	36.1	36.8
22.5°	32.7	34.8	36.1
25°	31.4	34.1	34.8
27.5°	30.0	33.4	34.8
30°	29.3	32.7	34.1
32.5°	27.9	32.0	33.4
35°	27.3	32.0	33.4
37.5°	27.3	31.4	33.4
40°	26.6	31.4	33.4
42.5°	26.6	31.4	33.4
45°	26.6	31.4	33.4
47.5°	25.9	31.4	34.1
50°	25.9	32.0	34.1
52.5°	25.9	32.0	34.1
55°	25.9	32.0	33.4
57.5°	25.2	31.4	33.4
60°	25.2	31.4	33.4
62.5°	23.9	30.7	32.7
65°	23.2	30.0	32.0
67.5°	21.8	29.3	30.7
70°	20.5	27.3	29.3
72.5°	18.4	25.9	27.9
75°	16.4	23.9	25.2
77.5°	14.3	21.1	22.5
80°	11.6	17.7	19.1
82.5°	8.9	13.6	14.3
85°	6.1	8.9	9.5
87.5°	2.7	4.1	4.8
90°	0.0	0.0	0.0

(END OF REPORT)