

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: P1314273

Luminaire Tested: P3SQAS09R559735DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R559735DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

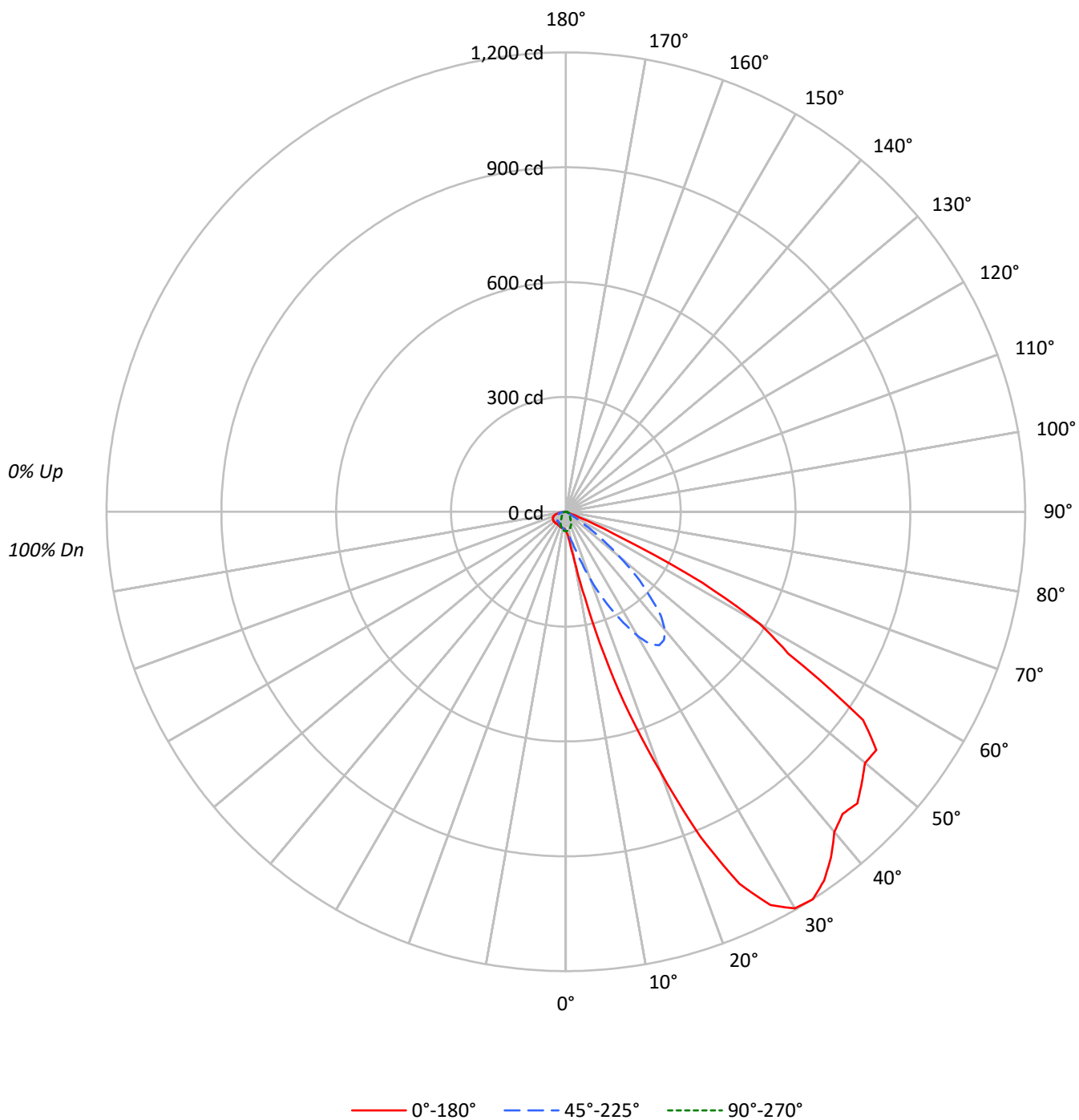
Lumens per Lamp: N/A
Luminaire Lumens: 772.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314273

CATALOG NUMBER: P3SQAS09R559735DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1314273

CATALOG NUMBER: P3SQAS09R559735DE010 E3SQCA451MB

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	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8577	8577	8577	8577	8577
5°	10961	10027	8609	8022	7780
10°	22315	12766	8342	7642	7642
15°	68466	19577	7792	7417	7667
20°	132398	34254	7001	7258	7624
25°	203766	53264	6100	6993	7639
30°	237923	74475	5011	6921	7875
35°	247248	89480	4163	6875	8179
40°	245369	90333	3844	7217	8903
45°	262314	74748	3653	7818	9645
50°	273397	49353	3644	8413	10771
55°	284677	21499	3693	9218	11890
60°	201122	4926	3754	10092	13399
65°	65610	1671	3627	10840	14996
70°	2065	1712	3777	11682	17171
75°	1797	1797	3194	12244	19031
80°	1389	1984	3372	12199	20332
85°	1383	2766	3952	12054	20156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 289272 cd/sqm

TEST NUMBER: P1314273

CATALOG NUMBER: P3SQAS09R559735DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.7
10°-20°	32.8	4.2
20°-30°	109.9	14.2
30°-40°	180.5	23.4
40°-50°	201.3	26.1
50°-60°	169.4	21.9
60°-70°	57.5	7.4
70°-80°	11.2	1.5
80°-90°	4.2	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°	147.9	19.2
0°-40°	328.4	42.5
0°-60°	699.1	90.6
0°-90°	772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	772.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	63	58	50	46	45	8
15°	384	110	44	42	43	122
25°	1072	280	32	37	40	482
35°	1176	426	20	33	39	730
45°	1077	307	15	32	40	823
55°	948	72	12	31	40	772
65°	161	4	9	27	37	218
75°	3	3	5	18	29	3
85°	1	1	2	6	10	1
90°	0	0	0	0	0	

TEST NUMBER: P1314273

CATALOG NUMBER: P3SQAS09R559735DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
2.5°	54.6	54.6	54.6	54.6	54.6	54.6	53.9	51.8	50.5	48.4	47.7
5°	63.4	63.4	63.4	62.8	62.8	61.4	58.0	53.2	49.8	47.1	46.4
7.5°	81.9	81.2	79.8	79.1	77.1	76.4	64.1	54.6	49.1	45.7	45.0
10°	127.6	126.2	124.1	116.6	109.8	105.0	73.0	55.3	47.7	44.3	43.7
12.5°	229.9	227.1	216.9	201.2	182.1	172.6	87.3	55.9	45.7	43.0	43.0
15°	384.0	380.6	361.5	339.7	304.9	285.8	109.8	55.3	43.7	40.9	41.6
17.5°	554.6	545.0	525.2	496.6	449.5	427.0	143.2	53.9	40.9	39.6	40.9
20°	722.4	719.6	686.9	648.0	590.0	560.0	186.9	51.8	38.2	37.5	39.6
22.5°	918.8	907.2	872.4	830.8	751.0	711.4	234.0	49.1	35.5	35.5	38.2
25°	1072.3	1058.6	1031.3	982.9	907.2	864.9	280.3	45.7	32.1	33.4	36.8
27.5°	1158.2	1142.5	1122.1	1080.5	1021.8	984.3	326.7	41.6	28.6	31.4	35.5
30°	1196.4	1192.3	1177.3	1146.6	1092.7	1059.3	374.5	36.8	25.2	29.3	34.8
32.5°	1200.5	1202.6	1196.4	1176.6	1135.7	1107.1	409.9	32.7	22.5	28.0	33.4
35°	1176.0	1183.5	1187.6	1179.4	1152.8	1129.6	425.6	28.0	19.8	26.6	32.7
37.5°	1137.8	1151.4	1165.0	1167.1	1150.7	1135.7	421.5	23.9	18.4	25.9	32.7
40°	1091.4	1103.7	1131.6	1149.4	1143.9	1133.0	401.8	19.8	17.1	24.6	32.1
42.5°	1070.2	1073.0	1103.0	1133.0	1131.6	1122.8	367.0	15.7	15.7	24.6	32.1
45°	1077.0	1064.8	1084.6	1119.3	1117.3	1105.7	306.9	12.3	15.0	23.9	32.1
47.5°	1048.4	1031.3	1064.8	1105.7	1098.2	1081.1	253.7	8.9	14.3	23.2	31.4
50°	1020.4	1017.7	1043.6	1064.1	1053.9	1044.3	184.2	6.8	13.6	22.5	31.4
52.5°	1022.5	1017.7	1020.4	1019.8	999.3	989.1	126.2	5.5	13.0	21.8	31.4
55°	948.1	933.1	918.8	922.9	924.3	917.4	71.6	4.8	12.3	21.8	30.7
57.5°	688.9	684.8	700.5	744.9	779.6	783.7	34.8	4.8	11.6	21.1	30.0
60°	583.9	581.2	581.8	594.8	613.2	601.6	14.3	4.8	10.9	20.5	29.3
62.5°	402.4	429.0	440.0	470.0	457.7	441.3	5.5	5.5	10.2	19.1	28.6
65°	161.0	160.3	175.3	189.6	185.5	173.3	4.1	4.8	8.9	17.7	26.6
67.5°	37.5	34.1	29.3	25.2	21.1	17.1	4.1	4.8	8.2	16.4	25.2
70°	4.1	4.1	4.1	4.1	4.1	3.4	3.4	4.8	7.5	15.0	23.2
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.1	6.1	13.0	21.1
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.4	4.8	10.9	18.4
77.5°	2.0	2.0	2.0	2.7	2.0	2.7	2.7	3.4	4.1	8.9	15.7
80°	1.4	1.4	2.0	2.0	2.0	2.0	2.0	2.7	3.4	7.5	12.3
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.7	5.5	8.9
85°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.0	2.0	4.1	6.1
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.0	2.0	2.7
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: P1314273

CATALOG NUMBER: P3SQAS09R559735DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	49.8	49.8
2.5°	47.1	47.1
5°	45.7	45.0
7.5°	44.3	44.3
10°	43.7	43.7
12.5°	43.0	43.7
15°	43.0	43.0
17.5°	41.6	42.3
20°	40.9	41.6
22.5°	40.2	40.9
25°	39.6	40.2
27.5°	38.9	39.6
30°	38.2	39.6
32.5°	37.5	38.9
35°	37.5	38.9
37.5°	37.5	39.6
40°	37.5	39.6
42.5°	37.5	39.6
45°	37.5	39.6
47.5°	37.5	39.6
50°	37.5	40.2
52.5°	37.5	40.2
55°	37.5	39.6
57.5°	36.8	39.6
60°	36.8	38.9
62.5°	36.2	38.2
65°	34.8	36.8
67.5°	33.4	36.2
70°	31.4	34.1
72.5°	29.3	31.4
75°	26.6	28.6
77.5°	23.2	24.6
80°	18.4	20.5
82.5°	14.3	15.7
85°	9.5	10.2
87.5°	4.1	4.8
90°	0.0	0.0

(END OF REPORT)