

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: P1315582

Luminaire Tested: P3SQAS17R709740DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R709740DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

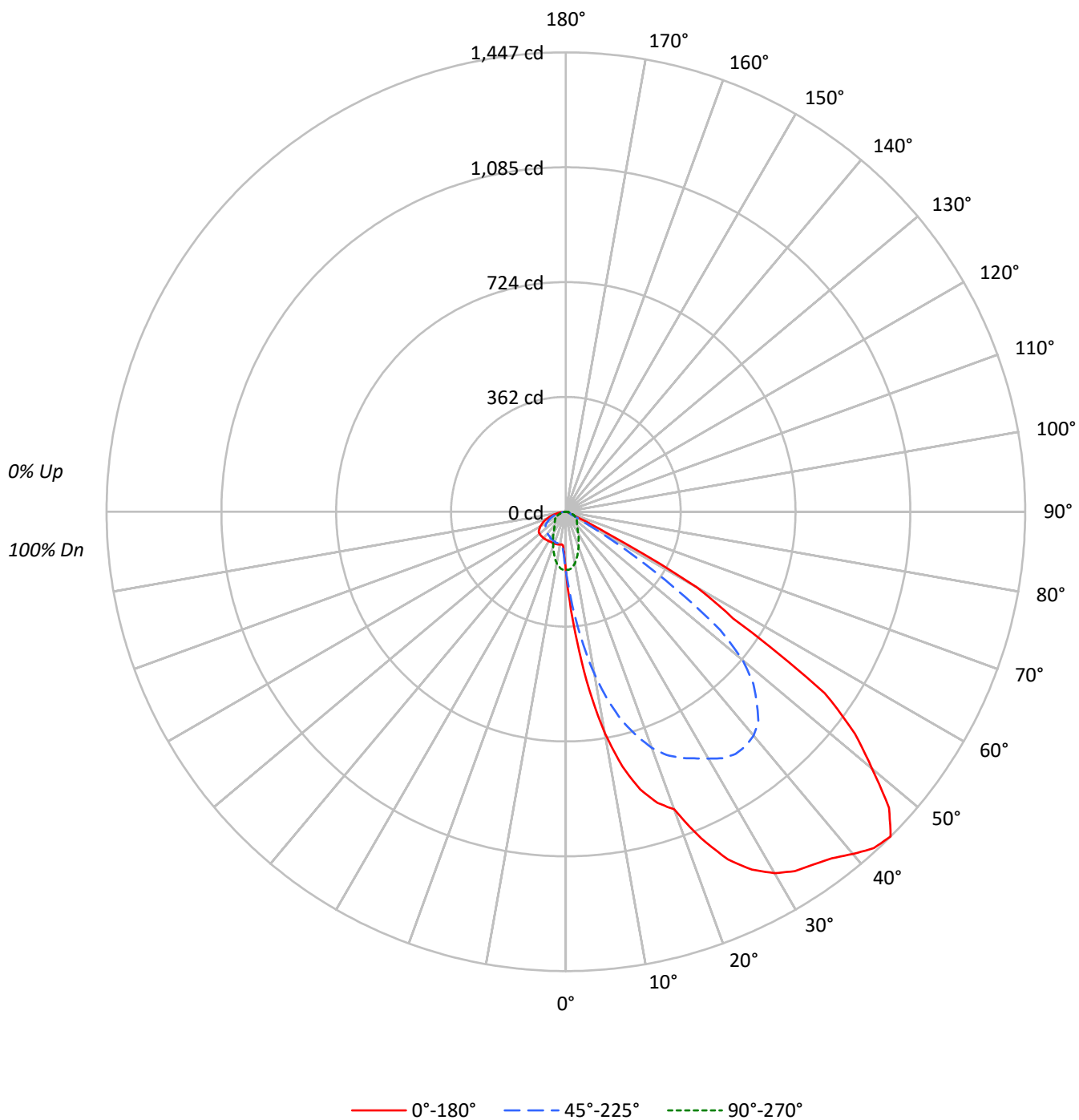
Lumens per Lamp: N/A
Luminaire Lumens: 1250.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: P1315582

CATALOG NUMBER: P3SQAS17R709740DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1315582

CATALOG NUMBER: P3SQAS17R709740DE010 E3SQCA451MMS

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	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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31362	31362	31362	31362	31362
5°	71365	57137	31049	19622	18325
10°	123657	90727	28785	17890	18327
15°	161431	121189	25122	18240	18900
20°	182854	144916	21480	18511	19665
25°	229647	162568	18015	18718	20143
30°	261409	178561	15372	19091	21338
35°	285281	195864	13372	19406	22559
40°	316278	206925	12343	20189	24393
45°	352358	207147	12154	21263	26426
50°	337486	194813	12030	22399	28749
55°	298820	126200	12371	23601	31077
60°	163680	27073	12469	24042	32206
65°	11696	6602	12185	23880	32520
70°	5640	6294	11279	22609	31421
75°	4991	6654	10780	21560	29012
80°	4959	6149	9918	19836	27175
85°	4940	7311	9880	17191	24700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 352358 cd/sqm

TEST NUMBER: P1315582

CATALOG NUMBER: P3SQAS17R709740DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	1.9
10°-20°	101.6	8.1
20°-30°	194.9	15.6
30°-40°	275.6	22.0
40°-50°	311.8	24.9
50°-60°	246.9	19.8
60°-70°	66.6	5.3
70°-80°	22.1	1.8
80°-90°	6.8	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°	320.2	25.6
0°-40°	595.9	47.7
0°-60°	1154.6	92.4
0°-90°	1250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1250.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	182	182	182	182	182	
5°	413	330	180	114	106	49
15°	905	680	141	102	106	255
25°	1208	856	95	98	106	554
35°	1357	932	64	92	107	855
45°	1447	850	50	87	108	1082
55°	995	420	41	79	104	808
65°	29	16	30	59	80	103
75°	8	10	16	32	44	8
85°	2	4	5	9	12	3
90°	0	0	0	0	0	

TEST NUMBER: P1315582

CATALOG NUMBER: P3SQAS17R709740DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1	182.1
2.5°	283.1	283.1	281.9	276.9	274.4	268.1	263.1	249.4	215.8	183.3	157.1
5°	412.8	419.0	410.3	409.1	401.6	390.4	382.9	330.5	249.4	179.6	134.7
7.5°	566.2	568.7	566.2	553.7	542.5	523.8	506.3	424.0	283.1	173.4	118.5
10°	707.1	703.4	695.9	687.2	671.0	651.0	621.1	518.8	315.5	164.6	108.5
12.5°	821.9	820.6	811.9	803.1	783.2	757.0	727.1	604.9	343.0	153.4	103.5
15°	905.4	905.4	896.7	886.7	868.0	846.8	813.1	679.7	365.4	140.9	98.5
17.5°	961.5	959.0	952.8	945.3	930.4	909.2	883.0	739.5	380.4	128.5	97.3
20°	997.7	996.5	991.5	980.2	967.8	951.6	927.9	790.7	386.6	117.2	96.0
22.5°	1113.7	1103.7	1085.0	1061.3	1031.4	992.7	960.3	829.3	384.1	104.8	93.5
25°	1208.5	1204.7	1184.8	1156.1	1116.2	1066.3	1012.7	855.5	371.6	94.8	91.0
27.5°	1270.8	1264.6	1245.9	1214.7	1172.3	1123.7	1073.8	875.5	354.2	86.1	87.3
30°	1314.5	1310.7	1292.0	1257.1	1213.5	1159.8	1108.7	897.9	330.5	77.3	83.6
32.5°	1341.9	1338.2	1319.5	1288.3	1245.9	1189.8	1131.1	920.4	301.8	69.8	79.8
35°	1356.9	1353.1	1331.9	1304.5	1264.6	1209.7	1147.4	931.6	266.9	63.6	76.1
37.5°	1375.6	1368.1	1339.4	1305.7	1265.8	1214.7	1152.3	930.4	232.0	58.6	73.6
40°	1406.8	1386.8	1345.6	1300.8	1259.6	1208.5	1148.6	920.4	193.3	54.9	71.1
42.5°	1436.7	1408.0	1346.9	1293.3	1247.1	1197.2	1134.9	897.9	150.9	52.4	69.8
45°	1446.7	1404.3	1329.4	1275.8	1232.2	1181.0	1116.2	850.5	102.3	49.9	67.3
47.5°	1380.6	1349.4	1287.0	1247.1	1206.0	1156.1	1088.7	800.7	58.6	47.4	64.9
50°	1259.6	1239.6	1204.7	1179.8	1157.3	1122.4	1056.3	727.1	34.9	44.9	62.4
52.5°	1147.4	1141.1	1116.2	1096.2	1083.8	1067.5	1007.7	613.6	28.7	43.6	59.9
55°	995.2	975.3	969.0	961.5	987.7	986.5	905.4	420.3	27.4	41.2	57.4
57.5°	624.8	633.5	666.0	725.8	796.9	838.1	835.6	224.5	26.2	38.7	53.6
60°	475.2	473.9	483.9	508.8	561.2	619.8	674.7	78.6	24.9	36.2	51.1
62.5°	142.2	145.9	175.8	258.2	309.3	381.6	347.9	18.7	23.7	32.4	46.1
65°	28.7	29.9	29.9	33.7	41.2	62.4	76.1	16.2	22.4	29.9	42.4
67.5°	12.5	12.5	12.5	13.7	13.7	16.2	13.7	15.0	20.0	26.2	37.4
70°	11.2	11.2	11.2	11.2	11.2	11.2	12.5	12.5	17.5	22.4	32.4
72.5°	8.7	8.7	8.7	10.0	10.0	10.0	10.0	11.2	15.0	18.7	27.4
75°	7.5	7.5	7.5	7.5	8.7	8.7	8.7	10.0	12.5	16.2	22.4
77.5°	6.2	6.2	6.2	6.2	6.2	7.5	7.5	7.5	10.0	12.5	18.7
80°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2	7.5	10.0	13.7
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.2	7.5	10.0
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	5.0	6.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7
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: P1315582

CATALOG NUMBER: P3SQAS17R709740DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	182.1	182.1	182.1
2.5°	138.4	130.9	127.2
5°	113.5	107.3	106.0
7.5°	104.8	103.5	103.5
10°	102.3	103.5	104.8
12.5°	102.3	104.8	106.0
15°	102.3	104.8	106.0
17.5°	102.3	104.8	106.0
20°	101.0	104.8	107.3
22.5°	99.8	104.8	106.0
25°	98.5	104.8	106.0
27.5°	97.3	103.5	106.0
30°	96.0	103.5	107.3
32.5°	93.5	103.5	107.3
35°	92.3	103.5	107.3
37.5°	91.0	103.5	108.5
40°	89.8	103.5	108.5
42.5°	88.5	103.5	108.5
45°	87.3	102.3	108.5
47.5°	84.8	102.3	108.5
50°	83.6	101.0	107.3
52.5°	81.1	99.8	107.3
55°	78.6	97.3	103.5
57.5°	74.8	93.5	98.5
60°	69.8	88.5	93.5
62.5°	63.6	82.3	86.1
65°	58.6	74.8	79.8
67.5°	51.1	66.1	71.1
70°	44.9	57.4	62.4
72.5°	38.7	48.6	53.6
75°	32.4	39.9	43.6
77.5°	24.9	32.4	34.9
80°	20.0	24.9	27.4
82.5°	13.7	17.5	18.7
85°	8.7	11.2	12.5
87.5°	3.7	5.0	5.0
90°	0.0	0.0	0.0

(END OF REPORT)