

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: P1306301

Luminaire Tested: P3SQAS20R709024D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306301
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: P3SQAS20R709024D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

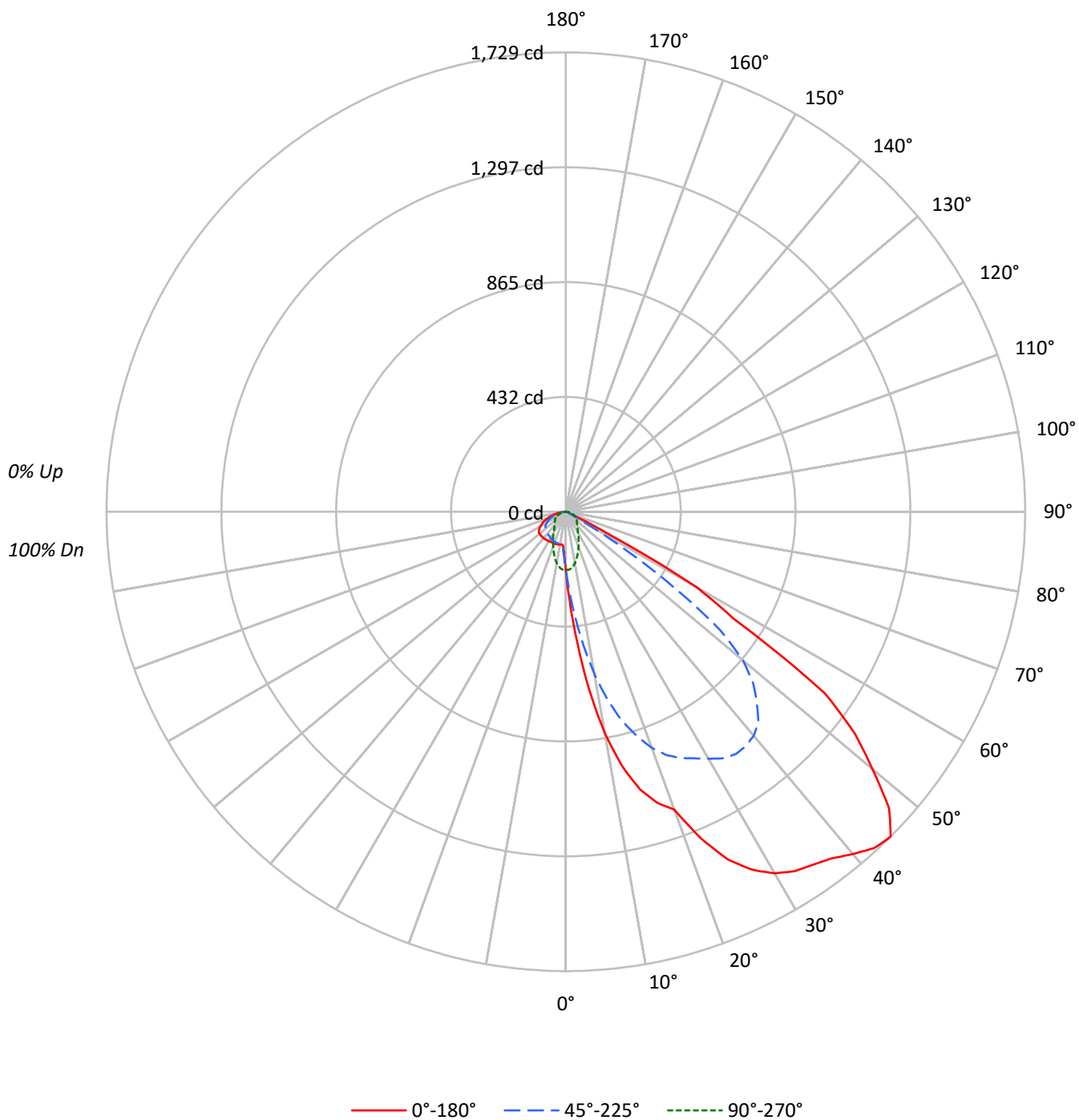
Lumens per Lamp: N/A
Luminaire Lumens: 1494.0 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1306301

CATALOG NUMBER: P3SQAS20R709024D010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1306301

CATALOG NUMBER: P3SQAS20R709024D010 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	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°	37476	37476	37476	37476	37476
5°	85299	68288	37100	23443	21904
10°	147808	108443	34416	21370	21895
15°	192954	144849	30025	21788	22590
20°	218556	173195	25677	22121	23496
25°	274475	194302	21530	22385	24076
30°	312438	213423	18375	22830	25495
35°	340954	234108	15979	23190	26953
40°	378014	247303	14748	24123	29159
45°	421139	247603	14516	25403	31590
50°	403370	232832	14388	26766	34349
55°	357160	150821	14773	28195	37142
60°	195610	32343	14880	28761	38509
65°	13978	7906	14589	28567	38877
70°	6748	7503	13495	27040	37514
75°	5922	7918	12909	25818	34735
80°	5951	7438	11802	23605	32531
85°	5928	8892	11856	20551	29443

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 421139 cd/sqm

TEST NUMBER: P1306301

CATALOG NUMBER: P3SQAS20R709024D010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	1.9
10°-20°	121.4	8.1
20°-30°	232.9	15.6
30°-40°	329.4	22.0
40°-50°	372.6	24.9
50°-60°	295.1	19.8
60°-70°	79.6	5.3
70°-80°	26.4	1.8
80°-90°	8.1	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°	382.7	25.6
0°-40°	712.2	47.7
0°-60°	1379.9	92.4
0°-90°	1494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1494.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	218	218	218	218	218	
5°	493	395	215	136	127	58
15°	1082	812	168	122	127	305
25°	1444	1022	113	118	127	662
35°	1622	1114	76	110	128	1021
45°	1729	1017	60	104	130	1294
55°	1190	502	49	94	124	965
65°	34	19	36	70	95	124
75°	9	12	19	39	52	10
85°	3	4	6	10	15	3
90°	0	0	0	0	0	

TEST NUMBER: P1306301

CATALOG NUMBER: P3SQAS20R709024D010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	217.6	217.6	217.6	217.6	217.6	217.6	217.6	217.6	217.6	217.6	217.6
2.5°	338.4	338.4	336.9	330.9	327.9	320.5	314.5	298.1	257.9	219.1	187.8
5°	493.4	500.8	490.4	488.9	480.0	466.5	457.6	395.0	298.1	214.6	161.0
7.5°	676.7	679.7	676.7	661.8	648.4	626.0	605.2	506.8	338.4	207.2	141.6
10°	845.2	840.7	831.7	821.3	801.9	778.1	742.3	620.1	377.1	196.8	129.7
12.5°	982.3	980.8	970.4	959.9	936.1	904.8	869.0	722.9	409.9	183.3	123.7
15°	1082.2	1082.2	1071.7	1059.8	1037.4	1012.1	971.8	812.4	436.7	168.4	117.8
17.5°	1149.2	1146.2	1138.8	1129.8	1112.0	1086.6	1055.3	883.9	454.6	153.5	116.3
20°	1192.5	1191.0	1185.0	1171.6	1156.7	1137.3	1109.0	945.0	462.1	140.1	114.8
22.5°	1331.1	1319.2	1296.8	1268.5	1232.7	1186.5	1147.7	991.2	459.1	125.2	111.8
25°	1444.4	1439.9	1416.0	1381.8	1334.1	1274.4	1210.3	1022.5	444.2	113.3	108.8
27.5°	1518.9	1511.4	1489.1	1451.8	1401.1	1343.0	1283.4	1046.4	423.3	102.8	104.3
30°	1571.1	1566.6	1544.2	1502.5	1450.3	1386.2	1325.1	1073.2	395.0	92.4	99.9
32.5°	1603.8	1599.4	1577.0	1539.8	1489.1	1422.0	1351.9	1100.0	360.7	83.5	95.4
35°	1621.7	1617.3	1591.9	1559.1	1511.4	1445.8	1371.3	1113.5	319.0	76.0	90.9
37.5°	1644.1	1635.2	1600.9	1560.6	1512.9	1451.8	1377.3	1112.0	277.2	70.1	87.9
40°	1681.4	1657.5	1608.3	1554.7	1505.5	1444.4	1372.8	1100.0	231.0	65.6	85.0
42.5°	1717.1	1682.8	1609.8	1545.7	1490.6	1430.9	1356.4	1073.2	180.4	62.6	83.5
45°	1729.1	1678.4	1588.9	1524.8	1472.7	1411.6	1334.1	1016.6	122.2	59.6	80.5
47.5°	1650.1	1612.8	1538.3	1490.6	1441.4	1381.8	1301.3	956.9	70.1	56.6	77.5
50°	1505.5	1481.6	1439.9	1410.1	1383.2	1341.5	1262.5	869.0	41.7	53.7	74.5
52.5°	1371.3	1363.9	1334.1	1310.2	1295.3	1275.9	1204.4	733.4	34.3	52.2	71.5
55°	1189.5	1165.6	1158.2	1149.2	1180.5	1179.0	1082.2	502.3	32.8	49.2	68.6
57.5°	746.8	757.2	796.0	867.5	952.5	1001.7	998.7	268.3	31.3	46.2	64.1
60°	567.9	566.4	578.3	608.2	670.8	740.8	806.4	93.9	29.8	43.2	61.1
62.5°	169.9	174.4	210.2	308.5	369.7	456.1	415.9	22.4	28.3	38.8	55.2
65°	34.3	35.8	35.8	40.2	49.2	74.5	90.9	19.4	26.8	35.8	50.7
67.5°	14.9	14.9	14.9	16.4	16.4	19.4	16.4	17.9	23.8	31.3	44.7
70°	13.4	13.4	13.4	13.4	13.4	13.4	14.9	14.9	20.9	26.8	38.8
72.5°	10.4	10.4	10.4	11.9	11.9	11.9	11.9	13.4	17.9	22.4	32.8
75°	8.9	8.9	8.9	8.9	10.4	10.4	10.4	11.9	14.9	19.4	26.8
77.5°	7.5	7.5	7.5	7.5	7.5	8.9	8.9	8.9	11.9	14.9	22.4
80°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.5	8.9	11.9	16.4
82.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.0	7.5	8.9	11.9
85°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	6.0	7.5
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0	4.5
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: P1306301

CATALOG NUMBER: P3SQAS20R709024D010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	217.6	217.6	217.6
2.5°	165.5	156.5	152.0
5°	135.6	128.2	126.7
7.5°	125.2	123.7	123.7
10°	122.2	123.7	125.2
12.5°	122.2	125.2	126.7
15°	122.2	125.2	126.7
17.5°	122.2	125.2	126.7
20°	120.7	125.2	128.2
22.5°	119.2	125.2	126.7
25°	117.8	125.2	126.7
27.5°	116.3	123.7	126.7
30°	114.8	123.7	128.2
32.5°	111.8	123.7	128.2
35°	110.3	123.7	128.2
37.5°	108.8	123.7	129.7
40°	107.3	123.7	129.7
42.5°	105.8	123.7	129.7
45°	104.3	122.2	129.7
47.5°	101.4	122.2	129.7
50°	99.9	120.7	128.2
52.5°	96.9	119.2	128.2
55°	93.9	116.3	123.7
57.5°	89.4	111.8	117.8
60°	83.5	105.8	111.8
62.5°	76.0	98.4	102.8
65°	70.1	89.4	95.4
67.5°	61.1	79.0	85.0
70°	53.7	68.6	74.5
72.5°	46.2	58.1	64.1
75°	38.8	47.7	52.2
77.5°	29.8	38.8	41.7
80°	23.8	29.8	32.8
82.5°	16.4	20.9	22.4
85°	10.4	13.4	14.9
87.5°	4.5	6.0	6.0
90°	0.0	0.0	0.0

(END OF REPORT)