

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: P1315735

Luminaire Tested: P3SQAS20R709740D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R709740D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

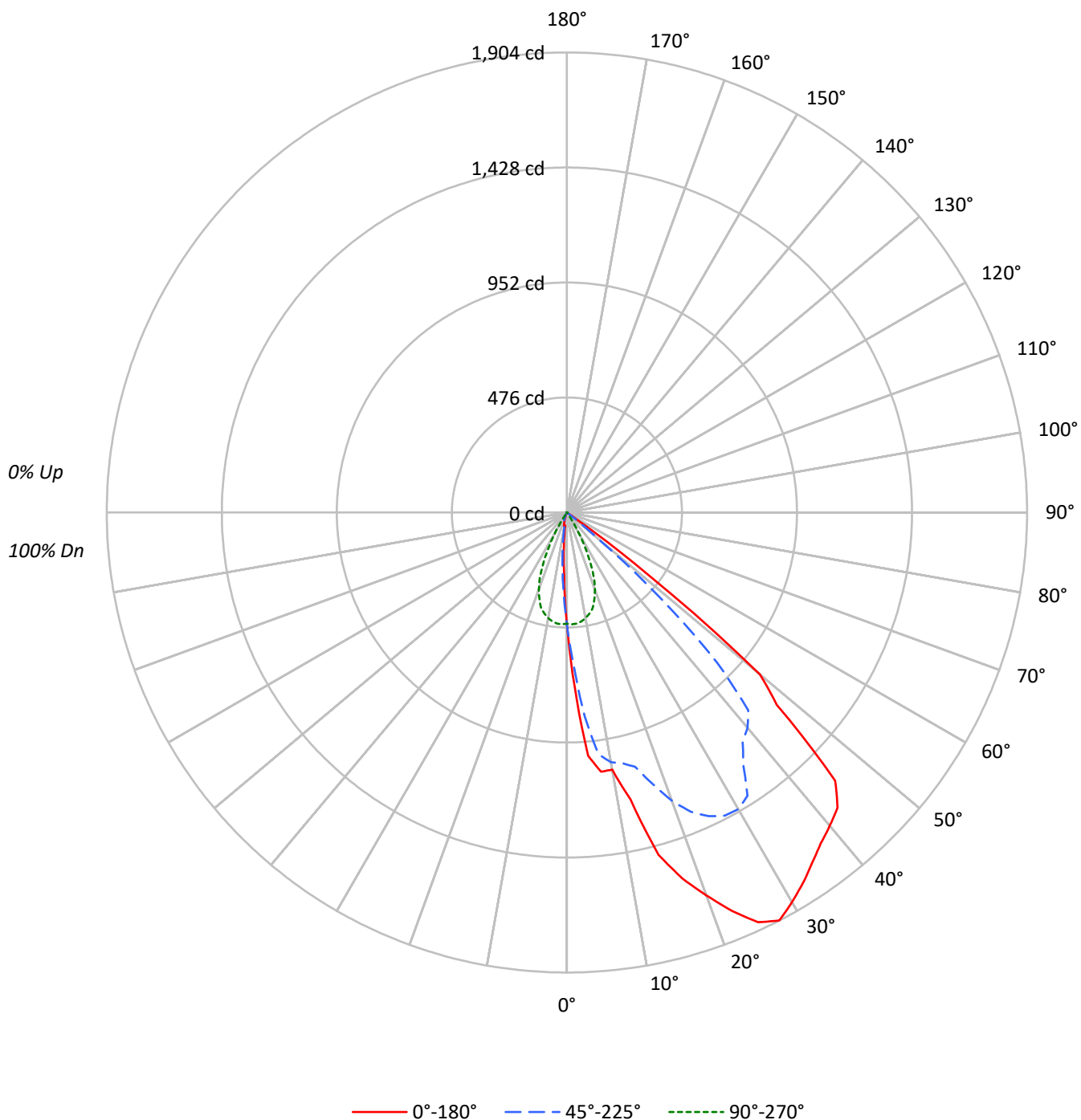
Lumens per Lamp: N/A
Luminaire Lumens: 1238.9 lumens
Efficiency: N/A
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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
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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	79188	79188	79188	79188	79188
5°	174713	146603	79802	36270	23875
10°	188957	183466	77664	10091	10388
15°	261545	194220	73263	10288	7489
20°	308911	232650	62167	6085	2236
25°	355502	263472	43858	988	0
30°	370308	281991	20165	0	0
35°	372008	267242	1093	0	0
40°	380509	261399	0	0	0
45°	382413	214211	0	0	0
50°	279211	44503	0	0	0
55°	15764	0	0	0	0
60°	0	586	586	0	0
65°	0	0	693	0	0
70°	0	856	856	0	0
75°	0	1131	1131	0	0
80°	0	1686	1686	1686	0
85°	0	3359	3359	3359	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 389647 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	4.1
10°-20°	168.0	13.6
20°-30°	301.9	24.4
30°-40°	367.1	29.6
40°-50°	283.4	22.9
50°-60°	65.9	5.3
60°-70°	0.4	0.0
70°-80°	0.9	0.1
80°-90°	0.9	0.1
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°	520.2	42.0
0°-40°	887.3	71.6
0°-60°	1236.7	99.8
0°-90°	1238.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	460	460	460	460	460	
5°	1011	848	462	210	138	95
15°	1467	1089	411	58	42	410
25°	1871	1386	231	5	0	851
35°	1769	1271	5	0	0	1111
45°	1570	880	0	0	0	1110
55°	52	0	0	0	0	216
65°	0	0	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	2	2	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8
2.5°	716.9	716.9	720.4	718.6	702.9	695.9	673.1	660.9	657.4	629.4	618.9
5°	1010.6	1012.3	1003.6	1001.8	984.4	972.1	952.9	923.2	893.4	848.0	807.8
7.5°	1082.3	1080.5	1078.8	1078.8	1075.3	1068.3	1059.5	1050.8	1038.6	1010.6	979.1
10°	1080.5	1080.5	1078.8	1078.8	1077.0	1078.8	1077.0	1071.8	1066.5	1049.1	1031.6
12.5°	1216.9	1206.4	1192.4	1171.4	1136.5	1110.3	1080.5	1071.8	1068.3	1063.0	1052.6
15°	1466.9	1458.2	1428.5	1391.7	1356.8	1297.3	1250.1	1185.4	1134.7	1089.3	1066.5
17.5°	1587.6	1592.8	1559.6	1536.9	1503.6	1456.4	1400.5	1334.0	1262.4	1176.7	1108.5
20°	1685.5	1690.7	1662.8	1640.0	1601.6	1552.6	1503.6	1432.0	1363.8	1269.4	1180.2
22.5°	1785.1	1788.6	1762.4	1729.2	1685.5	1634.8	1571.8	1498.4	1425.0	1341.0	1246.6
25°	1870.8	1867.3	1823.6	1776.4	1734.4	1680.2	1619.0	1547.4	1477.4	1386.5	1297.3
27.5°	1904.0	1902.3	1853.3	1807.9	1758.9	1685.5	1631.3	1568.3	1494.9	1414.5	1323.6
30°	1862.1	1890.0	1858.6	1825.4	1765.9	1692.5	1640.0	1564.8	1496.7	1418.0	1314.8
32.5°	1818.4	1853.3	1842.8	1827.1	1757.2	1699.5	1631.3	1561.3	1480.9	1390.0	1232.6
35°	1769.4	1806.1	1807.9	1790.4	1727.4	1669.7	1606.8	1533.4	1442.5	1271.1	1155.7
37.5°	1725.7	1760.7	1771.2	1734.4	1685.5	1608.6	1550.9	1473.9	1309.6	1194.2	1134.7
40°	1692.5	1718.7	1734.4	1676.7	1627.8	1552.6	1486.2	1351.5	1202.9	1162.7	1078.8
42.5°	1657.5	1682.0	1689.0	1626.0	1550.9	1479.2	1383.0	1213.4	1169.7	1110.3	884.7
45°	1570.1	1599.8	1582.3	1521.1	1465.2	1390.0	1246.6	1173.2	1126.0	879.5	543.8
47.5°	1178.4	1211.7	1258.9	1276.4	1295.6	1241.4	1162.7	1136.5	924.9	533.3	169.6
50°	1042.1	1036.8	1036.8	1045.6	1061.3	1078.8	1101.5	958.1	556.0	166.1	0.0
52.5°	424.9	445.8	549.0	641.7	748.3	855.0	888.2	587.5	216.8	3.5	0.0
55°	52.5	52.5	73.4	125.9	208.1	335.7	377.7	188.8	15.7	0.0	0.0
57.5°	0.0	0.0	0.0	1.7	14.0	38.5	26.2	7.0	1.7	1.7	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	459.8	459.8	459.8	459.8	459.8	459.8	459.8	459.8
2.5°	601.5	580.5	550.8	463.3	388.2	321.7	283.2	264.0
5°	769.3	718.6	650.4	461.6	314.7	209.8	157.4	138.1
7.5°	930.2	872.5	757.1	454.6	241.3	122.4	68.2	54.2
10°	1000.1	958.1	855.0	444.1	174.8	57.7	57.7	59.4
12.5°	1028.1	996.6	912.7	428.4	115.4	55.9	59.4	55.9
15°	1047.3	1017.6	940.7	410.9	66.4	57.7	47.2	42.0
17.5°	1057.8	1022.8	949.4	377.7	43.7	49.0	29.7	24.5
20°	1091.0	1035.1	956.4	339.2	42.0	33.2	15.7	12.2
22.5°	1147.0	1059.5	958.1	292.0	33.2	19.2	5.2	0.0
25°	1197.7	1092.8	963.4	230.8	10.5	5.2	0.0	0.0
27.5°	1222.2	1103.3	961.6	162.6	0.0	0.0	0.0	0.0
30°	1192.4	1077.0	945.9	101.4	0.0	0.0	0.0	0.0
32.5°	1122.5	1057.8	896.9	43.7	0.0	0.0	0.0	0.0
35°	1099.8	1015.8	785.0	5.2	0.0	0.0	0.0	0.0
37.5°	1049.1	895.2	577.0	0.0	0.0	0.0	0.0	0.0
40°	902.2	646.9	274.5	0.0	0.0	0.0	0.0	0.0
42.5°	596.2	276.3	15.7	0.0	0.0	0.0	0.0	0.0
45°	209.8	17.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	1.7	1.7	0.0	0.0	0.0	0.0
67.5°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
70°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
72.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
75°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
77.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
85°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)