

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: P1312822

Luminaire Tested: P3SQAS20R709727D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312822
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: P3SQAS20R709727D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

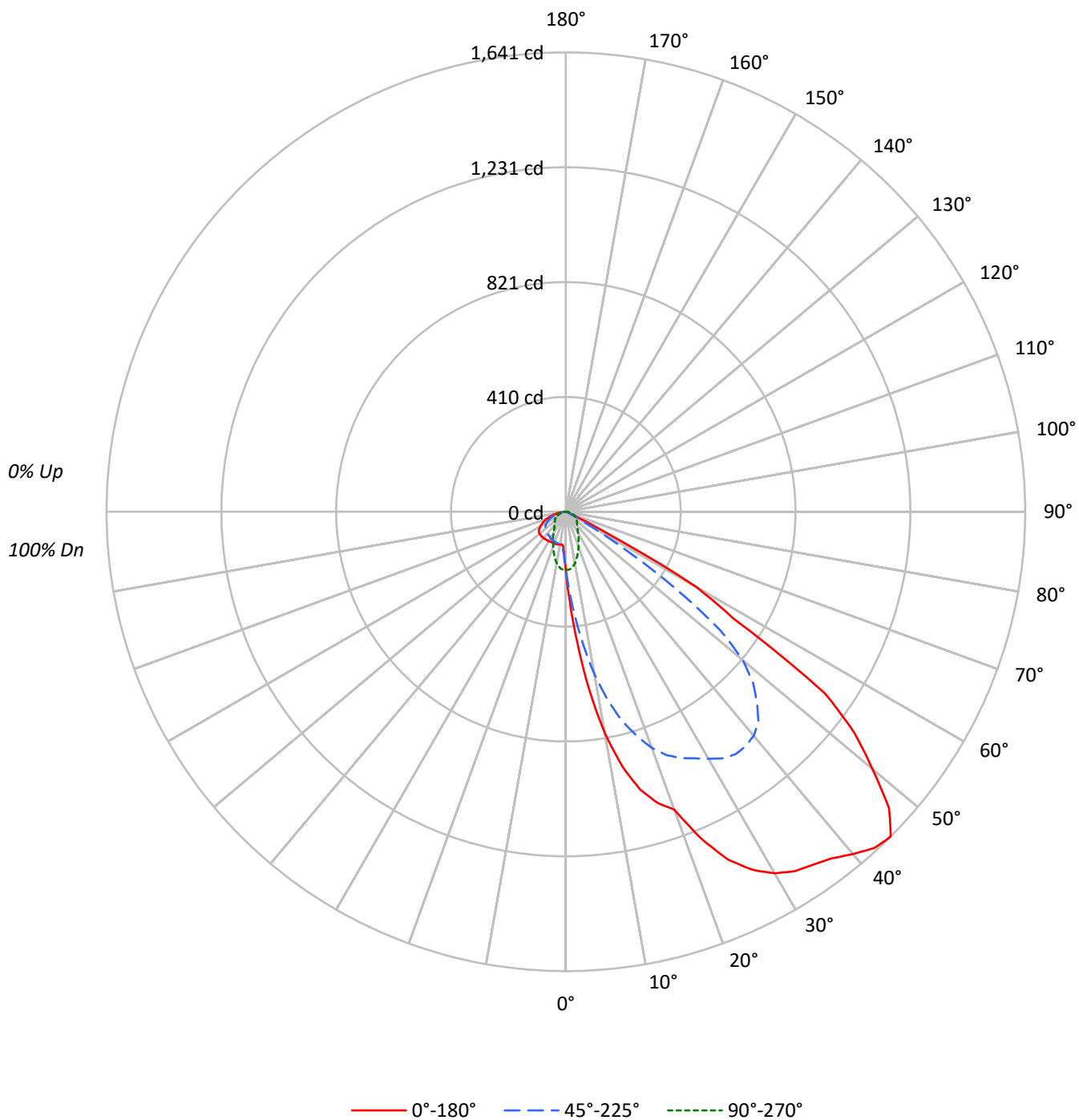
Lumens per Lamp: N/A
Luminaire Lumens: 1418.0 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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			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°	35581	35581	35581	35581	35581
5°	80960	64813	35216	22250	20798
10°	140288	102917	32650	20286	20776
15°	183130	137468	28510	20683	21449
20°	207431	164380	24376	21003	22305
25°	260508	184421	20428	21245	22860
30°	296528	202564	17441	21656	24202
35°	323609	222187	15180	22013	25587
40°	358769	234735	13984	22909	27675
45°	399706	235011	13785	24112	29982
50°	382846	220989	13638	25400	32607
55°	338995	143164	14022	26753	35251
60°	185656	30690	14122	27280	36546
65°	13244	7498	13855	27100	36880
70°	6395	7100	12840	25630	35601
75°	5656	7519	12244	24487	32938
80°	5653	7042	11207	22414	30845
85°	5533	8299	11263	19563	27862

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 399706 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.9	1.9
10°-20°	115.2	8.1
20°-30°	221.1	15.6
30°-40°	312.7	22.0
40°-50°	353.7	24.9
50°-60°	280.1	19.8
60°-70°	75.5	5.3
70°-80°	25.1	1.8
80°-90°	7.7	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°	363.3	25.6
0°-40°	675.9	47.7
0°-60°	1309.7	92.4
0°-90°	1418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	207	207	207	207	207	
5°	468	375	204	129	120	55
15°	1027	771	160	116	120	289
25°	1371	970	108	112	120	628
35°	1539	1057	72	105	122	969
45°	1641	965	57	99	123	1228
55°	1129	477	47	89	117	916
65°	32	18	34	66	90	117
75°	8	11	18	37	50	9
85°	3	4	6	10	14	3
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6	206.6
2.5°	321.1	321.1	319.7	314.1	311.2	304.2	298.5	282.9	244.8	208.0	178.3
5°	468.3	475.4	465.4	464.0	455.5	442.8	434.3	374.9	282.9	203.7	152.8
7.5°	642.3	645.1	642.3	628.1	615.4	594.2	574.4	481.0	321.1	196.6	134.4
10°	802.2	797.9	789.4	779.5	761.1	738.5	704.5	588.5	357.9	186.7	123.1
12.5°	932.3	930.9	921.0	911.1	888.5	858.7	824.8	686.1	389.1	174.0	117.4
15°	1027.1	1027.1	1017.2	1005.9	984.7	960.6	922.4	771.0	414.5	159.9	111.8
17.5°	1090.8	1087.9	1080.9	1072.4	1055.4	1031.3	1001.6	838.9	431.5	145.7	110.3
20°	1131.8	1130.4	1124.7	1112.0	1097.8	1079.4	1052.6	896.9	438.6	133.0	108.9
22.5°	1263.4	1252.0	1230.8	1203.9	1170.0	1126.1	1089.4	940.8	435.7	118.8	106.1
25°	1370.9	1366.6	1344.0	1311.5	1266.2	1209.6	1148.8	970.5	421.6	107.5	103.3
27.5°	1441.6	1434.5	1413.3	1378.0	1329.9	1274.7	1218.1	993.1	401.8	97.6	99.0
30°	1491.1	1486.9	1465.7	1426.1	1376.5	1315.7	1257.7	1018.6	374.9	87.7	94.8
32.5°	1522.3	1518.0	1496.8	1461.4	1413.3	1349.7	1283.2	1044.1	342.4	79.2	90.5
35°	1539.2	1535.0	1510.9	1479.8	1434.5	1372.3	1301.6	1056.8	302.8	72.2	86.3
37.5°	1560.5	1552.0	1519.4	1481.2	1436.0	1378.0	1307.2	1055.4	263.1	66.5	83.5
40°	1595.8	1573.2	1526.5	1475.6	1428.9	1370.9	1303.0	1044.1	219.3	62.2	80.6
42.5°	1629.8	1597.2	1527.9	1467.1	1414.7	1358.2	1287.4	1018.6	171.2	59.4	79.2
45°	1641.1	1593.0	1508.1	1447.3	1397.8	1339.8	1266.2	964.9	116.0	56.6	76.4
47.5°	1566.1	1530.7	1460.0	1414.7	1368.1	1311.5	1235.1	908.3	66.5	53.8	73.6
50°	1428.9	1406.3	1366.6	1338.3	1312.9	1273.3	1198.3	824.8	39.6	50.9	70.7
52.5°	1301.6	1294.5	1266.2	1243.6	1229.4	1211.0	1143.1	696.1	32.5	49.5	67.9
55°	1129.0	1106.3	1099.3	1090.8	1120.5	1119.1	1027.1	476.8	31.1	46.7	65.1
57.5°	708.8	718.7	755.5	823.4	904.0	950.7	947.9	254.7	29.7	43.9	60.8
60°	539.0	537.6	548.9	577.2	636.6	703.1	765.4	89.1	28.3	41.0	58.0
62.5°	161.3	165.5	199.5	292.9	350.9	432.9	394.7	21.2	26.9	36.8	52.3
65°	32.5	34.0	34.0	38.2	46.7	70.7	86.3	18.4	25.5	34.0	48.1
67.5°	14.1	14.1	14.1	15.6	15.6	18.4	15.6	17.0	22.6	29.7	42.4
70°	12.7	12.7	12.7	12.7	12.7	12.7	14.1	14.1	19.8	25.5	36.8
72.5°	9.9	9.9	9.9	11.3	11.3	11.3	11.3	12.7	17.0	21.2	31.1
75°	8.5	8.5	8.5	8.5	9.9	9.9	9.9	11.3	14.1	18.4	25.5
77.5°	7.1	7.1	7.1	7.1	7.1	8.5	8.5	8.5	11.3	14.1	21.2
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.1	8.5	11.3	15.6
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.7	7.1	8.5	11.3
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	5.7	7.1
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.2
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):

	135°	157.5°	180°
0°	206.6	206.6	206.6
2.5°	157.0	148.5	144.3
5°	128.7	121.7	120.3
7.5°	118.8	117.4	117.4
10°	116.0	117.4	118.8
12.5°	116.0	118.8	120.3
15°	116.0	118.8	120.3
17.5°	116.0	118.8	120.3
20°	114.6	118.8	121.7
22.5°	113.2	118.8	120.3
25°	111.8	118.8	120.3
27.5°	110.3	117.4	120.3
30°	108.9	117.4	121.7
32.5°	106.1	117.4	121.7
35°	104.7	117.4	121.7
37.5°	103.3	117.4	123.1
40°	101.9	117.4	123.1
42.5°	100.4	117.4	123.1
45°	99.0	116.0	123.1
47.5°	96.2	116.0	123.1
50°	94.8	114.6	121.7
52.5°	92.0	113.2	121.7
55°	89.1	110.3	117.4
57.5°	84.9	106.1	111.8
60°	79.2	100.4	106.1
62.5°	72.2	93.4	97.6
65°	66.5	84.9	90.5
67.5°	58.0	75.0	80.6
70°	50.9	65.1	70.7
72.5°	43.9	55.2	60.8
75°	36.8	45.3	49.5
77.5°	28.3	36.8	39.6
80°	22.6	28.3	31.1
82.5°	15.6	19.8	21.2
85°	9.9	12.7	14.1
87.5°	4.2	5.7	5.7
90°	0.0	0.0	0.0

(END OF REPORT)