

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: P1312816

Luminaire Tested: P3SQAS20R659727D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R659727D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

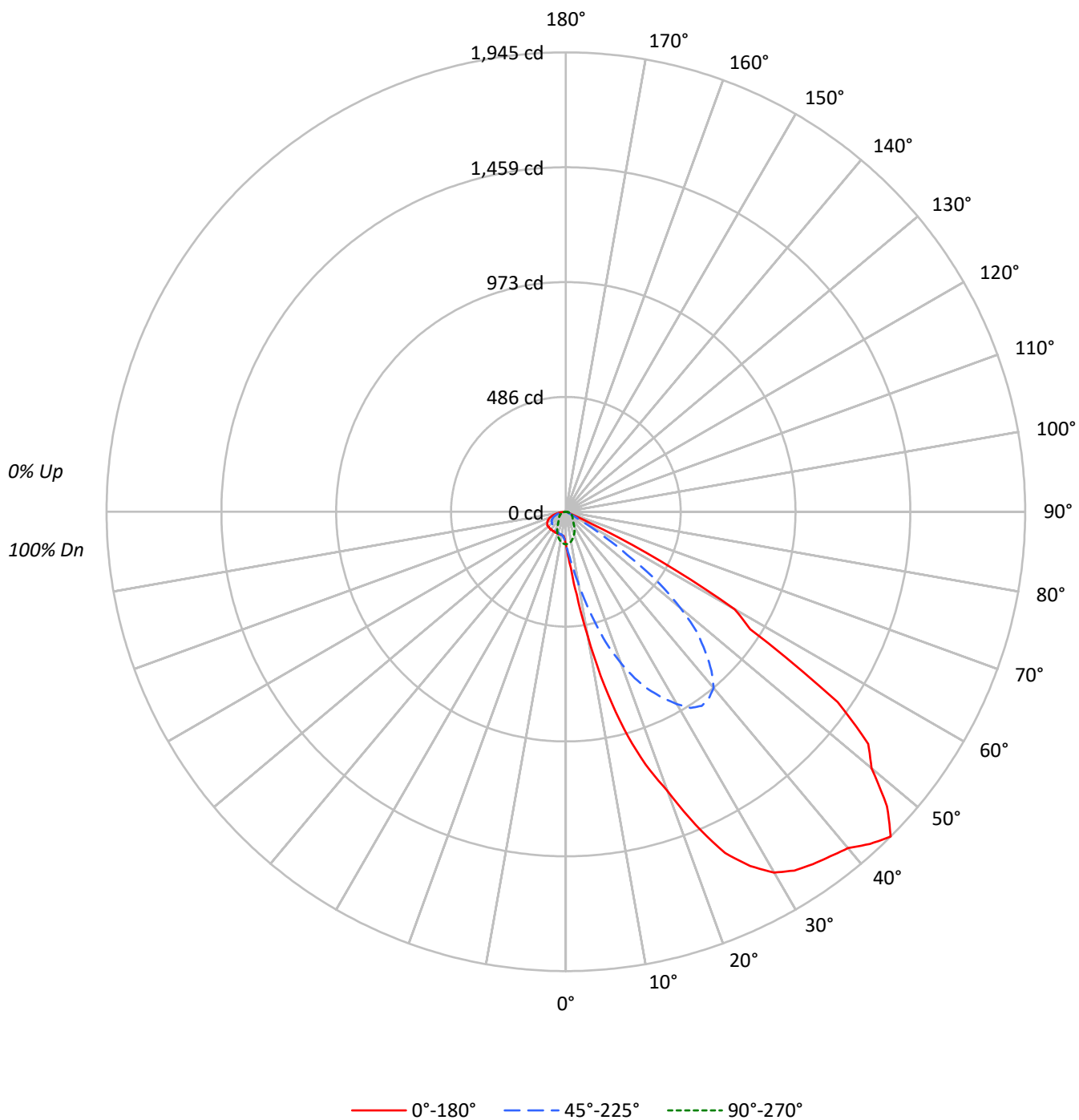
Lumens per Lamp: N/A
Luminaire Lumens: 1411.0 lumens
Efficiency: N/A
Efficacy: 49.0 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
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	108	104	100	97	100	97	94		96	94	91		92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42		53	46	41		51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36		48	41	36		46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28		39	33	28		38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23629	23629	23629	23629	23629
5°	41336	33746	23235	18827	18101
10°	93526	54422	22262	17313	17558
15°	170007	87526	20683	17402	17901
20°	230506	124976	18676	17375	18144
25°	302979	157817	16399	16931	18547
30°	350839	187093	14060	16884	19409
35°	383108	210897	11900	17261	20520
40°	417942	218840	10499	18121	21942
45°	473796	202958	9986	19290	23771
50°	452589	169439	9860	20470	26150
55°	421837	95153	10209	22099	28885
60°	284098	20460	10230	23388	31172
65°	43808	5175	9821	24206	34027
70°	4985	4985	9265	24925	36356
75°	4724	4724	8451	24487	36731
80°	4166	5653	8430	22414	36498
85°	2766	5533	8299	22329	33593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 473796 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.6	1.2
10°-20°	89.7	6.4
20°-30°	210.8	14.9
30°-40°	318.5	22.6
40°-50°	366.1	25.9
50°-60°	290.6	20.6
60°-70°	87.1	6.2
70°-80°	23.7	1.7
80°-90°	7.9	0.6
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°	317.1	22.5
0°-40°	635.6	45.0
0°-60°	1292.3	91.6
0°-90°	1411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1411.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	137	137	137	137	137	
5°	239	195	134	109	105	32
15°	954	491	116	98	100	275
25°	1594	830	86	89	98	728
35°	1822	1003	57	82	98	1143
45°	1945	833	41	79	98	1445
55°	1405	317	34	74	96	1157
65°	108	13	24	59	84	241
75°	7	7	13	37	55	7
85°	1	3	4	11	17	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2	137.2
2.5°	174.0	175.4	174.0	174.0	172.6	171.2	161.3	150.0	137.2	127.3	120.3
5°	239.1	240.5	236.3	236.3	233.4	229.2	195.2	162.7	134.4	118.8	108.9
7.5°	353.7	359.3	352.3	343.8	328.2	325.4	243.3	175.4	131.6	110.4	101.9
10°	534.8	530.5	523.5	506.5	479.6	466.9	311.2	188.2	127.3	104.7	99.0
12.5°	754.1	742.7	734.3	703.1	666.4	645.1	396.1	199.5	121.7	99.0	97.6
15°	953.5	945.1	925.3	895.5	850.3	833.3	490.9	206.6	116.0	94.8	97.6
17.5°	1121.9	1113.4	1102.1	1072.4	1025.7	1000.2	597.0	210.8	108.9	92.0	96.2
20°	1257.7	1252.1	1236.5	1212.4	1165.8	1141.7	681.9	210.8	101.9	89.1	94.8
22.5°	1433.2	1420.4	1400.6	1365.2	1307.2	1270.5	762.6	206.6	94.8	86.3	92.0
25°	1594.4	1585.9	1560.5	1518.0	1455.8	1419.0	830.5	198.1	86.3	82.1	89.1
27.5°	1690.6	1685.0	1660.9	1617.1	1547.7	1519.5	887.1	185.3	77.8	77.8	87.7
30°	1764.2	1752.9	1728.8	1686.4	1615.7	1581.7	940.8	169.8	70.7	73.6	84.9
32.5°	1801.0	1796.7	1775.5	1738.7	1669.4	1631.2	984.7	150.0	62.2	70.7	83.5
35°	1822.2	1818.0	1801.0	1765.6	1700.5	1663.8	1003.1	131.6	56.6	67.9	82.1
37.5°	1839.2	1834.9	1813.7	1778.4	1713.3	1675.1	994.6	111.8	50.9	65.1	80.6
40°	1859.0	1843.4	1810.9	1775.5	1716.1	1679.3	973.4	93.4	46.7	63.7	80.6
42.5°	1907.1	1853.3	1802.4	1769.9	1713.3	1670.8	912.5	73.6	42.4	60.8	79.2
45°	1945.3	1850.5	1785.4	1760.0	1702.0	1653.9	833.3	53.8	41.0	59.4	79.2
47.5°	1844.8	1786.8	1757.1	1743.0	1680.7	1628.4	751.2	36.8	39.6	58.0	77.8
50°	1689.2	1682.2	1670.8	1672.2	1615.7	1573.2	632.4	25.5	36.8	56.6	76.4
52.5°	1614.2	1605.8	1585.9	1571.8	1515.2	1478.4	500.8	19.8	35.4	55.2	75.0
55°	1404.9	1410.5	1389.3	1397.8	1380.8	1362.4	316.9	18.4	34.0	52.3	73.6
57.5°	925.3	953.5	1003.1	1062.5	1116.2	1153.0	171.2	18.4	31.1	50.9	70.7
60°	824.8	817.7	816.3	827.6	851.7	871.5	59.4	17.0	29.7	46.7	67.9
62.5°	451.3	448.5	490.9	563.1	605.5	609.8	17.0	17.0	26.9	43.9	63.7
65°	107.5	111.8	124.5	155.6	183.9	202.3	12.7	15.6	24.1	41.0	59.4
67.5°	17.0	18.4	18.4	22.6	25.5	25.5	11.3	14.1	21.2	36.8	55.2
70°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	12.7	18.4	32.5	49.5
72.5°	8.5	8.5	8.5	8.5	8.5	8.5	9.9	11.3	15.6	28.3	42.4
75°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.9	12.7	22.6	36.8
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	7.1	8.5	11.3	18.4	29.7
80°	4.2	4.2	4.2	4.2	4.2	4.2	5.7	7.1	8.5	14.1	22.6
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.2	5.7	7.1	11.3	17.0
85°	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.2	4.2	7.1	11.3
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.2	5.7
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):

	157.5°	180°
0°	137.2	137.2
2.5°	116.0	114.6
5°	104.7	104.7
7.5°	100.4	100.4
10°	99.0	100.4
12.5°	99.0	100.4
15°	99.0	100.4
17.5°	99.0	100.4
20°	97.6	99.0
22.5°	96.2	97.6
25°	94.8	97.6
27.5°	93.4	97.6
30°	93.4	97.6
32.5°	93.4	97.6
35°	92.0	97.6
37.5°	92.0	97.6
40°	92.0	97.6
42.5°	92.0	97.6
45°	92.0	97.6
47.5°	92.0	97.6
50°	92.0	97.6
52.5°	90.5	97.6
55°	90.5	96.2
57.5°	87.7	93.4
60°	84.9	90.5
62.5°	82.1	87.7
65°	77.8	83.5
67.5°	73.6	77.8
70°	66.5	72.2
72.5°	59.4	63.7
75°	50.9	55.2
77.5°	42.4	46.7
80°	34.0	36.8
82.5°	24.1	26.9
85°	15.6	17.0
87.5°	7.1	7.1
90°	0.0	0.0

(END OF REPORT)