

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: P1315227

Luminaire Tested: P3SQAS09R459740DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS09R459740DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

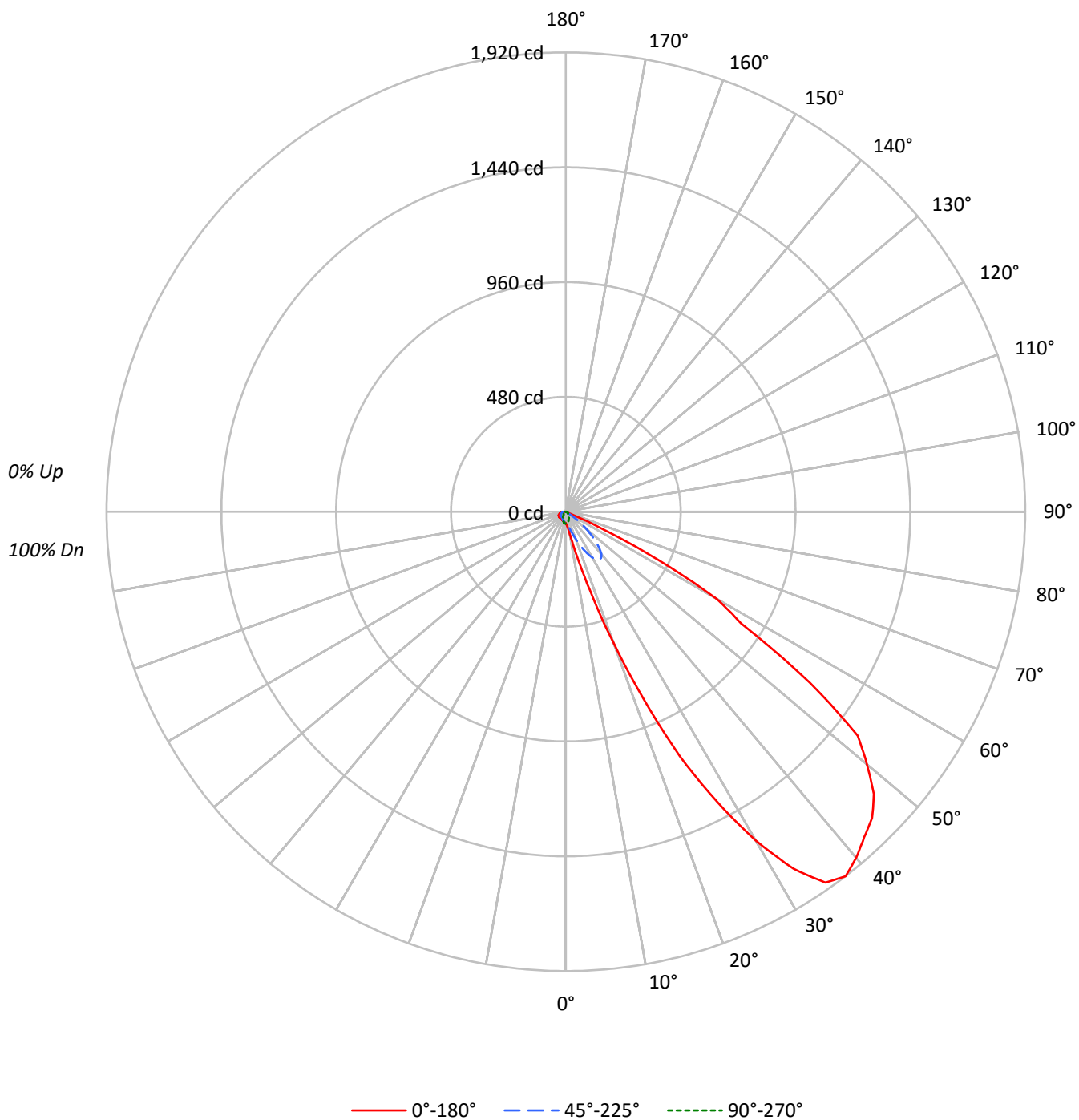
Lumens per Lamp: N/A
Luminaire Lumens: 858.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	99	107	104	100	97	99	97	94		96	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63
5	76	63	53	47	73	61	53	46	59	52	46		57	51	45		55
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49
7	63	49	40	34	61	48	40	33	47	39	33		45	38	33		44
8	58	44	35	29	56	43	35	29	42	34	29		40	33	28		39
9	53	39	31	25	52	39	30	25	38	30	25		36	29	25		35
10	49	36	27	22	48	35	27	22	34	27	21		33	26	21		32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8542	8542	8542	8542	8542
5°	10165	9439	8454	7849	7849
10°	16246	11035	7940	7432	7432
15°	40456	14781	7203	6954	7203
20°	106538	22085	6231	6635	7019
25°	213932	32742	5397	6195	6879
30°	315381	43850	4375	6065	7040
35°	397826	51426	3721	5971	7296
40°	424439	51956	3350	6205	7801
45°	440989	43329	3118	6722	8452
50°	440291	30196	3028	7207	9485
55°	374215	13422	3183	8077	10419
60°	251514	2687	3169	9024	11952
65°	66751	1141	3179	9821	13570
70°	1762	1410	3223	10726	15358
75°	1397	1397	3327	11312	17434
80°	1389	2083	3471	12001	19737
85°	1383	2766	5533	12647	19563

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 452359 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.6
10°-20°	24.2	2.8
20°-30°	99.8	11.6
30°-40°	210.4	24.5
40°-50°	259.5	30.2
50°-60°	194.5	22.7
60°-70°	50.1	5.8
70°-80°	10.4	1.2
80°-90°	4.2	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°	128.9	15.0
0°-40°	339.3	39.5
0°-60°	793.3	92.5
0°-90°	858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	858.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	59	55	49	45	45	7
15°	227	83	40	39	40	83
25°	1126	172	28	33	36	525
35°	1892	245	18	28	35	1153
45°	1811	178	13	28	35	1385
55°	1246	45	11	27	35	1076
65°	164	3	8	24	33	236
75°	2	2	5	17	26	2
85°	1	1	3	6	10	1
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°	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
2.5°	52.5	52.5	52.5	52.5	52.5	52.5	52.5	51.8	51.0	49.6	48.2
5°	58.8	58.1	58.1	58.1	57.4	56.7	56.7	54.6	51.8	48.9	46.8
7.5°	69.5	69.5	68.8	67.3	66.6	65.2	63.8	58.1	51.8	47.5	44.7
10°	92.9	91.5	89.3	87.9	84.4	79.4	75.9	63.1	51.0	45.4	43.2
12.5°	139.0	141.8	134.7	127.6	117.7	108.5	97.1	71.6	51.0	43.2	41.1
15°	226.9	231.8	218.4	204.2	180.1	157.4	136.1	82.9	49.6	40.4	38.3
17.5°	370.8	377.2	354.5	321.2	283.6	238.2	199.2	98.5	48.2	37.6	36.2
20°	581.3	580.6	536.7	494.8	422.5	355.9	282.9	120.5	46.1	34.0	34.0
22.5°	840.1	842.9	789.1	713.9	611.1	504.1	387.8	146.0	43.2	31.2	31.9
25°	1125.8	1101.7	1037.9	946.4	815.3	667.1	514.0	172.3	40.4	28.4	29.8
27.5°	1364.0	1340.6	1267.6	1159.1	1018.0	842.2	642.3	198.5	36.9	25.5	27.6
30°	1585.9	1556.1	1468.2	1345.6	1177.6	987.6	762.8	220.5	32.6	22.0	25.5
32.5°	1768.8	1741.9	1641.9	1499.4	1316.5	1112.3	864.9	237.5	28.4	19.9	24.1
35°	1892.2	1864.5	1772.4	1615.7	1416.5	1203.1	947.9	244.6	24.8	17.7	23.4
37.5°	1920.5	1905.6	1839.7	1693.0	1485.2	1261.2	1001.0	242.5	20.6	16.3	22.0
40°	1887.9	1891.5	1860.3	1738.3	1522.1	1286.0	1023.0	231.1	17.0	14.9	21.3
42.5°	1846.1	1855.3	1853.2	1756.8	1537.7	1287.4	1013.8	208.4	13.5	13.5	20.6
45°	1810.6	1819.9	1832.6	1749.0	1527.1	1269.0	984.7	177.9	9.9	12.8	20.6
47.5°	1746.1	1756.1	1774.5	1686.6	1473.2	1221.5	932.3	144.6	7.1	12.1	19.9
50°	1643.3	1648.3	1643.3	1544.8	1369.7	1144.9	847.2	112.7	5.0	11.3	19.9
52.5°	1537.7	1527.8	1486.7	1361.9	1205.2	1023.7	740.1	80.1	3.5	10.6	19.1
55°	1246.3	1230.7	1200.2	1123.7	1034.4	874.8	598.3	44.7	3.5	10.6	18.4
57.5°	868.5	877.0	887.6	872.0	830.9	689.1	454.4	19.9	3.5	9.9	18.4
60°	730.2	723.1	723.8	713.9	645.8	502.6	312.6	7.8	3.5	9.2	17.7
62.5°	436.0	441.0	450.2	452.3	385.0	280.7	163.8	3.5	3.5	8.5	17.0
65°	163.8	171.6	150.3	130.4	103.5	75.9	38.3	2.8	4.3	7.8	15.6
67.5°	5.0	5.7	7.1	6.4	6.4	5.7	4.3	2.8	4.3	7.1	14.9
70°	3.5	3.5	3.5	3.5	3.5	2.8	2.8	2.8	3.5	6.4	13.5
72.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5	5.7	12.1
75°	2.1	2.8	2.1	2.1	2.1	2.1	2.1	2.1	3.5	5.0	9.9
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	4.3	8.5
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.8	3.5	7.1
82.5°	1.4	1.4	1.4	0.7	1.4	1.4	1.4	1.4	2.8	2.8	5.7
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	2.1	2.8	3.5
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.4	2.1	2.1	2.1
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°	49.6	49.6	49.6
2.5°	46.8	46.8	46.8
5°	45.4	45.4	45.4
7.5°	44.0	44.0	44.0
10°	42.5	42.5	42.5
12.5°	41.1	41.1	41.8
15°	39.0	40.4	40.4
17.5°	37.6	39.0	39.7
20°	36.2	37.6	38.3
22.5°	34.0	36.2	37.6
25°	32.6	35.4	36.2
27.5°	31.2	34.7	36.2
30°	30.5	34.0	35.4
32.5°	29.1	33.3	34.7
35°	28.4	33.3	34.7
37.5°	28.4	32.6	34.7
40°	27.6	32.6	34.7
42.5°	27.6	32.6	34.7
45°	27.6	32.6	34.7
47.5°	26.9	32.6	35.4
50°	26.9	33.3	35.4
52.5°	26.9	33.3	35.4
55°	26.9	33.3	34.7
57.5°	26.2	32.6	34.7
60°	26.2	32.6	34.7
62.5°	24.8	31.9	34.0
65°	24.1	31.2	33.3
67.5°	22.7	30.5	31.9
70°	21.3	28.4	30.5
72.5°	19.1	26.9	29.1
75°	17.0	24.8	26.2
77.5°	14.9	22.0	23.4
80°	12.1	18.4	19.9
82.5°	9.2	14.2	14.9
85°	6.4	9.2	9.9
87.5°	2.8	4.3	5.0
90°	0.0	0.0	0.0

(END OF REPORT)