

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: P1307406

Luminaire Tested: P3SQAS24R609027D010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R609027D010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R60 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

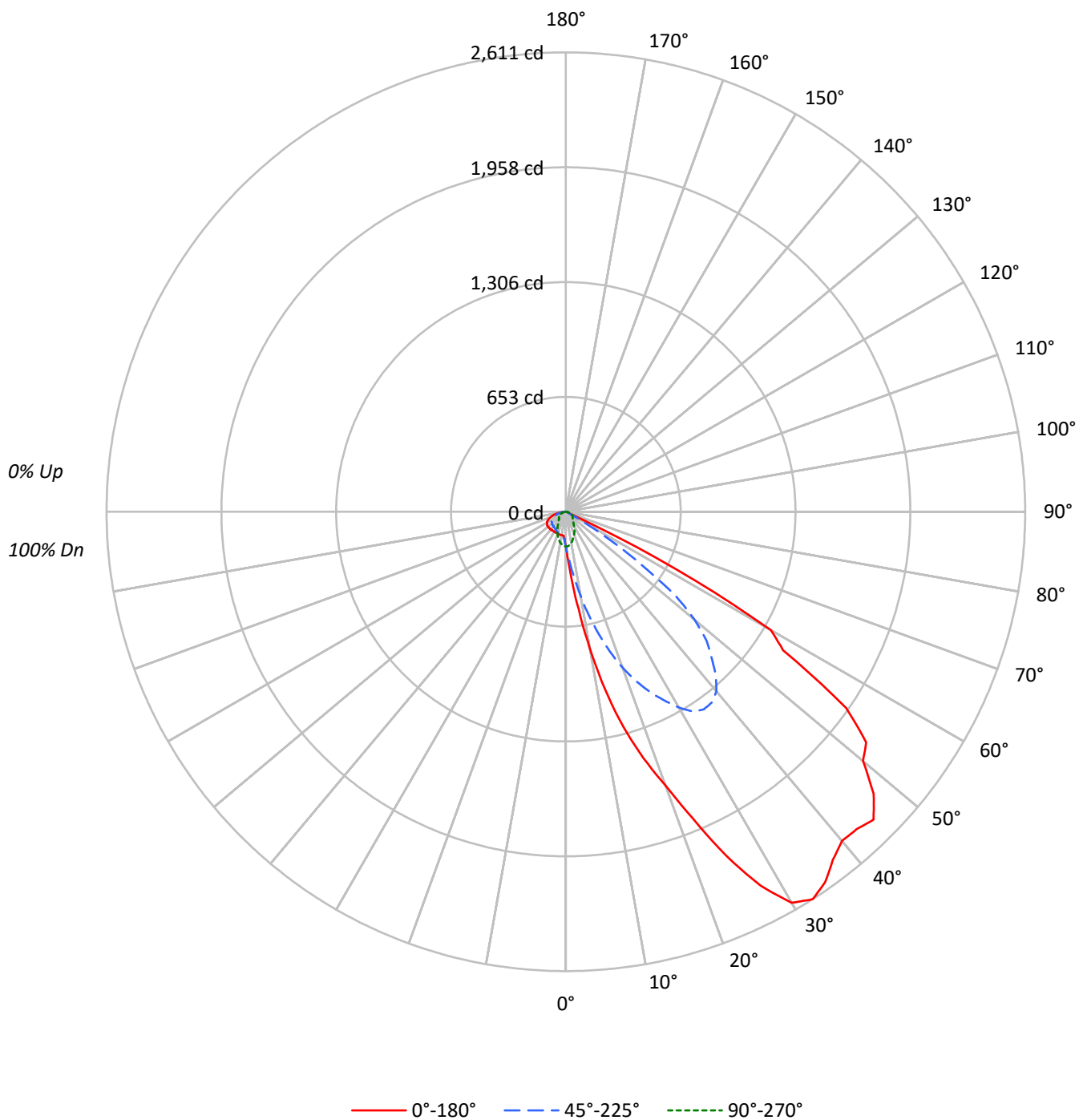
Lumens per Lamp: N/A
Luminaire Lumens: 1988.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33928	33928	33928	33928	33928
5°	66853	52175	33435	25310	24048
10°	138102	85009	31286	23067	23381
15°	225868	127590	28028	23197	23838
20°	303046	172884	25164	23184	24174
25°	410021	214616	21986	23012	25065
30°	510309	255522	18335	23009	26230
35°	540267	287994	15579	23547	27353
40°	548877	299416	14209	24371	29654
45°	602542	285208	13639	25963	32126
50°	590707	255660	13557	27597	35340
55°	583858	156826	13572	29846	39064
60°	463107	37338	14329	31758	42332
65°	29463	6642	13978	32397	45642
70°	6345	7301	13646	33687	48240
75°	5989	7187	12044	32472	49307
80°	5356	7141	12497	32233	46614
85°	3557	7114	14227	28652	46437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 636002 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.6	1.2
10°-20°	123.9	6.2
20°-30°	287.5	14.5
30°-40°	446.9	22.5
40°-50°	509.2	25.6
50°-60°	428.9	21.6
60°-70°	124.4	6.3
70°-80°	31.9	1.6
80°-90°	10.8	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°	436.0	21.9
0°-40°	882.8	44.4
0°-60°	1820.9	91.6
0°-90°	1988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1988.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	197	197	197	197	197	
5°	387	302	193	146	139	50
15°	1267	716	157	130	134	367
25°	2158	1129	116	121	132	1002
35°	2570	1370	74	112	130	1596
45°	2474	1171	56	107	132	1860
55°	1944	522	45	99	130	1636
65°	72	16	34	80	112	358
75°	9	11	18	49	74	9
85°	2	4	7	14	24	3
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	197.0	197.0	197.0	197.0	197.0	197.0	197.0	197.0	197.0	197.0	197.0
2.5°	265.6	263.8	263.8	262.0	260.2	258.4	253.0	251.2	240.3	218.7	197.0
5°	386.7	384.9	379.5	377.7	368.7	356.0	343.4	330.7	301.8	240.3	193.4
7.5°	560.2	563.8	560.2	540.3	527.7	507.8	469.9	442.7	384.9	262.0	186.1
10°	789.7	789.7	784.3	753.6	726.5	688.5	639.7	592.7	486.1	281.9	178.9
12.5°	1039.1	1044.5	1017.4	992.1	943.3	896.3	829.5	759.0	601.8	298.2	169.9
15°	1266.8	1263.2	1236.1	1203.5	1152.9	1087.9	1017.4	927.1	715.6	309.0	157.2
17.5°	1469.2	1462.0	1438.5	1402.3	1340.9	1268.6	1178.2	1080.7	833.1	318.1	148.2
20°	1653.5	1628.2	1601.1	1563.2	1503.5	1427.6	1333.7	1223.4	943.3	318.1	137.3
22.5°	1886.6	1861.3	1823.4	1765.6	1686.0	1592.1	1481.8	1357.1	1040.9	310.8	126.5
25°	2157.7	2137.8	2072.8	1998.7	1895.7	1783.6	1655.3	1487.3	1129.4	300.0	115.7
27.5°	2394.4	2372.7	2307.7	2199.3	2074.6	1940.8	1805.3	1633.6	1207.2	280.1	103.0
30°	2566.1	2539.0	2488.4	2385.4	2233.6	2071.0	1910.1	1745.7	1284.9	256.6	92.2
32.5°	2611.3	2607.7	2569.7	2493.8	2358.3	2179.4	1987.8	1808.9	1346.3	225.9	83.1
35°	2569.7	2575.1	2567.9	2530.0	2430.6	2255.3	2038.4	1843.3	1369.8	195.2	74.1
37.5°	2493.8	2501.1	2513.7	2519.1	2455.9	2300.5	2067.3	1857.7	1364.4	164.4	68.7
40°	2441.4	2437.8	2437.8	2473.9	2461.3	2320.3	2071.0	1846.9	1331.8	131.9	63.2
42.5°	2446.8	2407.1	2380.0	2437.8	2455.9	2311.3	2047.5	1818.0	1261.4	101.2	57.8
45°	2473.9	2389.0	2342.0	2416.1	2445.0	2280.6	2004.1	1774.6	1171.0	70.5	56.0
47.5°	2372.7	2316.7	2309.5	2414.3	2425.2	2228.2	1937.2	1705.9	1084.3	48.8	52.4
50°	2204.7	2195.6	2233.6	2342.0	2343.8	2141.4	1861.3	1581.2	954.2	34.3	50.6
52.5°	2152.3	2157.7	2192.0	2248.1	2195.6	1995.1	1724.0	1476.4	789.7	27.1	48.8
55°	1944.5	1953.5	1986.0	2020.4	1982.4	1816.2	1557.7	1349.9	522.3	25.3	45.2
57.5°	1463.8	1487.3	1546.9	1577.6	1581.2	1480.0	1411.4	1163.8	294.6	25.3	43.4
60°	1344.5	1313.8	1286.7	1223.4	1165.6	1152.9	1160.2	872.8	108.4	23.5	41.6
62.5°	703.0	688.5	730.1	757.2	764.4	804.2	751.8	460.8	23.5	23.5	37.9
65°	72.3	72.3	88.5	117.5	195.2	260.2	247.6	133.7	16.3	21.7	34.3
67.5°	21.7	21.7	21.7	25.3	32.5	32.5	27.1	19.9	16.3	19.9	30.7
70°	12.6	12.6	12.6	12.6	12.6	12.6	14.5	12.6	14.5	18.1	27.1
72.5°	10.8	10.8	10.8	10.8	12.6	12.6	12.6	12.6	12.6	16.3	23.5
75°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.8	10.8	12.6	18.1
77.5°	7.2	7.2	7.2	7.2	7.2	7.2	9.0	9.0	9.0	10.8	14.5
80°	5.4	5.4	5.4	5.4	5.4	7.2	7.2	7.2	7.2	9.0	12.6
82.5°	3.6	3.6	3.6	3.6	5.4	5.4	5.4	5.4	5.4	7.2	9.0
85°	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.4	7.2
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	5.4
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):

	112.5°	135°	157.5°	180°
0°	197.0	197.0	197.0	197.0
2.5°	178.9	166.3	159.0	155.4
5°	162.6	146.4	141.0	139.1
7.5°	148.2	137.3	135.5	135.5
10°	139.1	131.9	133.7	133.7
12.5°	133.7	131.9	133.7	135.5
15°	128.3	130.1	133.7	133.7
17.5°	124.7	128.3	131.9	133.7
20°	119.3	126.5	131.9	131.9
22.5°	115.7	124.7	130.1	131.9
25°	112.0	121.1	128.3	131.9
27.5°	106.6	119.3	128.3	130.1
30°	101.2	115.7	126.5	131.9
32.5°	95.8	113.8	126.5	130.1
35°	92.2	112.0	126.5	130.1
37.5°	88.5	110.2	126.5	131.9
40°	86.7	108.4	124.7	131.9
42.5°	83.1	108.4	124.7	131.9
45°	81.3	106.6	124.7	131.9
47.5°	79.5	104.8	124.7	131.9
50°	75.9	103.0	122.9	131.9
52.5°	74.1	101.2	122.9	131.9
55°	70.5	99.4	121.1	130.1
57.5°	68.7	95.8	119.3	126.5
60°	65.1	92.2	115.7	122.9
62.5°	59.6	86.7	110.2	119.3
65°	54.2	79.5	104.8	112.0
67.5°	48.8	74.1	97.6	104.8
70°	43.4	66.9	88.5	95.8
72.5°	37.9	57.8	79.5	84.9
75°	32.5	48.8	66.9	74.1
77.5°	25.3	39.8	56.0	61.4
80°	19.9	32.5	43.4	47.0
82.5°	16.3	23.5	32.5	34.3
85°	10.8	14.5	19.9	23.5
87.5°	5.4	7.2	9.0	10.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)