

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: P1310775

Luminaire Tested: P3SQAS24R709040D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310775
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: P3SQAS24R709040D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

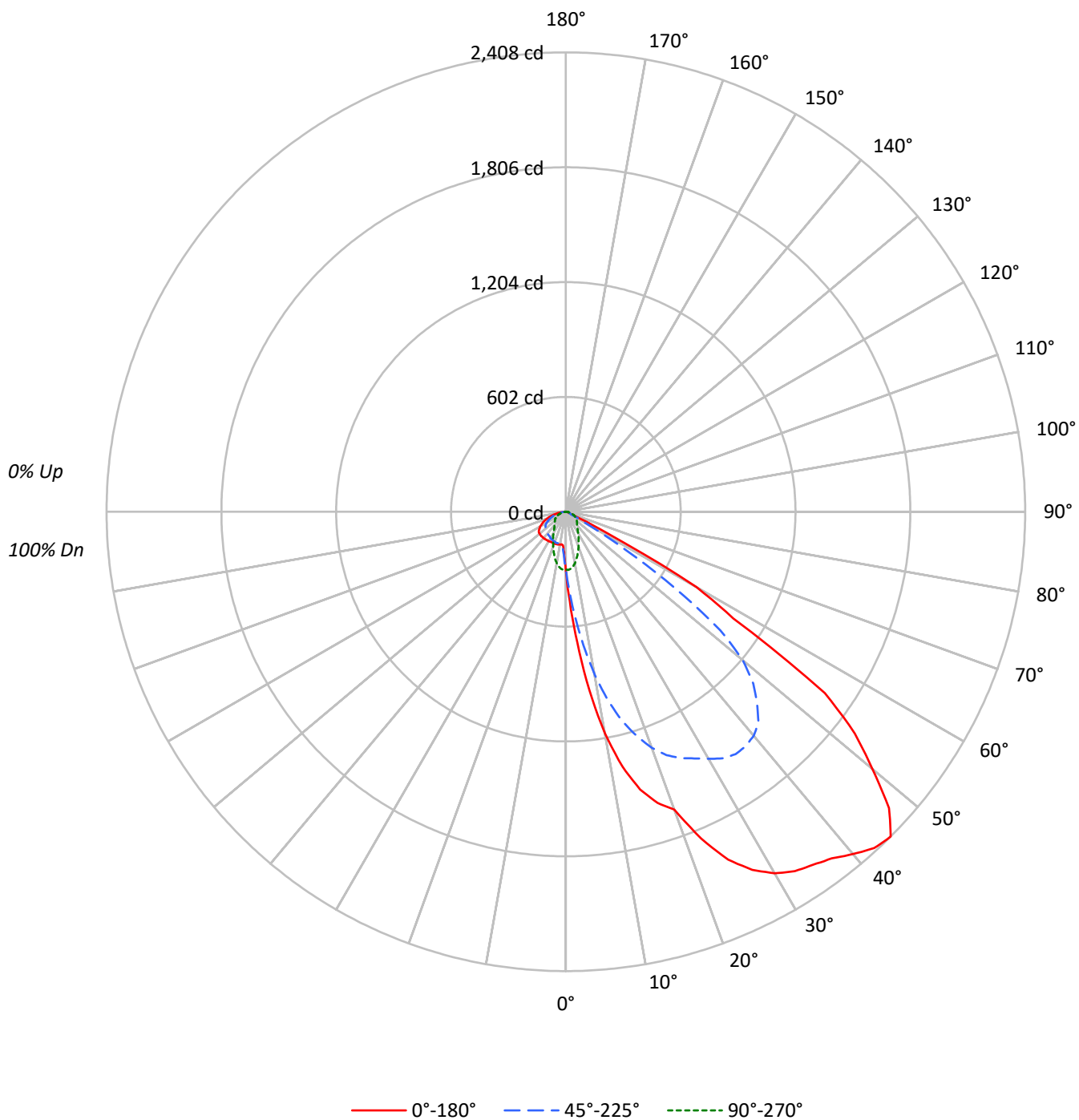
Lumens per Lamp: N/A
Luminaire Lumens: 2081.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
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°	52201	52201	52201	52201	52201
5°	118803	95119	51691	32657	30513
10°	205868	151043	47934	29764	30499
15°	268749	201744	41829	30346	31470
20°	304421	241246	35775	30827	32733
25°	382315	270655	29986	31164	33540
30°	435178	297284	25594	31799	35517
35°	474922	326069	22265	32294	37550
40°	526530	344470	20549	33611	40603
45°	586589	344880	20215	35389	43987
50°	561851	324304	20014	37269	47852
55°	497472	210093	20568	39274	51735
60°	272456	45053	20736	40059	53630
65°	19479	11003	20294	39773	54159
70°	9416	10474	18833	37615	52268
75°	8318	11046	17966	35933	48376
80°	8232	10315	16464	32927	45325
85°	8299	12251	16401	28652	41101

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 586589 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.5	1.9
10°-20°	169.1	8.1
20°-30°	324.5	15.6
30°-40°	458.9	22.0
40°-50°	519.0	24.9
50°-60°	411.1	19.8
60°-70°	110.8	5.3
70°-80°	36.8	1.8
80°-90°	11.3	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°	533.1	25.6
0°-40°	992.0	47.7
0°-60°	1922.1	92.4
0°-90°	2081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	303	303	303	303	303	
5°	687	550	299	189	176	81
15°	1507	1132	235	170	176	425
25°	2012	1424	158	164	176	922
35°	2259	1551	106	154	179	1423
45°	2408	1416	83	145	181	1802
55°	1657	700	68	131	172	1345
65°	48	27	50	98	133	172
75°	12	17	27	54	73	13
85°	4	6	8	14	21	5
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°	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1
2.5°	471.3	471.3	469.2	460.9	456.8	446.4	438.1	415.2	359.2	305.2	261.6
5°	687.2	697.6	683.1	681.0	668.5	649.9	637.4	550.2	415.2	299.0	224.2
7.5°	942.6	946.8	942.6	921.8	903.2	872.0	842.9	705.9	471.3	288.6	197.2
10°	1177.2	1171.0	1158.5	1144.0	1117.0	1083.8	1034.0	863.7	525.3	274.1	180.6
12.5°	1368.2	1366.2	1351.6	1337.1	1303.9	1260.3	1210.4	1007.0	571.0	255.4	172.3
15°	1507.3	1507.3	1492.8	1476.2	1445.0	1409.8	1353.7	1131.5	608.3	234.6	164.0
17.5°	1600.8	1596.6	1586.2	1573.8	1548.9	1513.6	1470.0	1231.2	633.2	213.9	161.9
20°	1661.0	1658.9	1650.6	1631.9	1611.1	1584.2	1544.7	1316.3	643.6	195.2	159.9
22.5°	1854.1	1837.5	1806.3	1766.9	1717.0	1652.7	1598.7	1380.7	639.5	174.4	155.7
25°	2011.9	2005.6	1972.4	1924.7	1858.2	1775.2	1685.9	1424.3	618.7	157.8	151.6
27.5°	2115.7	2105.3	2074.1	2022.2	1951.6	1870.7	1787.6	1457.5	589.6	143.3	145.3
30°	2188.3	2182.1	2151.0	2092.8	2020.2	1930.9	1845.8	1494.9	550.2	128.7	139.1
32.5°	2234.0	2227.8	2196.6	2144.7	2074.1	1980.7	1883.1	1532.2	502.4	116.3	132.9
35°	2258.9	2252.7	2217.4	2171.7	2105.3	2013.9	1910.1	1550.9	444.3	105.9	126.6
37.5°	2290.1	2277.6	2229.9	2173.8	2107.4	2022.2	1918.4	1548.9	386.2	97.6	122.5
40°	2342.0	2308.8	2240.2	2165.5	2097.0	2011.9	1912.2	1532.2	321.8	91.4	118.3
42.5°	2391.8	2344.0	2242.3	2153.0	2076.2	1993.2	1889.4	1494.9	251.2	87.2	116.3
45°	2408.4	2337.8	2213.2	2124.0	2051.3	1966.2	1858.2	1416.0	170.2	83.0	112.1
47.5°	2298.4	2246.5	2142.7	2076.2	2007.7	1924.7	1812.5	1332.9	97.6	78.9	108.0
50°	2097.0	2063.8	2005.6	1964.1	1926.7	1868.6	1758.6	1210.4	58.1	74.7	103.8
52.5°	1910.1	1899.7	1858.2	1825.0	1804.2	1777.2	1677.6	1021.5	47.8	72.7	99.7
55°	1656.8	1623.6	1613.2	1600.8	1644.4	1642.3	1507.3	699.7	45.7	68.5	95.5
57.5°	1040.2	1054.7	1108.7	1208.4	1326.7	1395.2	1391.1	373.7	43.6	64.4	89.3
60°	791.0	789.0	805.6	847.1	934.3	1031.9	1123.2	130.8	41.5	60.2	85.1
62.5°	236.7	242.9	292.7	429.8	514.9	635.3	579.3	31.1	39.4	54.0	76.8
65°	47.8	49.8	49.8	56.1	68.5	103.8	126.6	27.0	37.4	49.8	70.6
67.5°	20.8	20.8	20.8	22.8	22.8	27.0	22.8	24.9	33.2	43.6	62.3
70°	18.7	18.7	18.7	18.7	18.7	18.7	20.8	20.8	29.1	37.4	54.0
72.5°	14.5	14.5	14.5	16.6	16.6	16.6	16.6	18.7	24.9	31.1	45.7
75°	12.5	12.5	12.5	12.5	14.5	14.5	14.5	16.6	20.8	27.0	37.4
77.5°	10.4	10.4	10.4	10.4	10.4	12.5	12.5	12.5	16.6	20.8	31.1
80°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.4	12.5	16.6	22.8
82.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	8.3	10.4	12.5	16.6
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.2	6.2	8.3	10.4
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	6.2
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°	303.1	303.1	303.1
2.5°	230.5	218.0	211.8
5°	188.9	178.6	176.5
7.5°	174.4	172.3	172.3
10°	170.2	172.3	174.4
12.5°	170.2	174.4	176.5
15°	170.2	174.4	176.5
17.5°	170.2	174.4	176.5
20°	168.2	174.4	178.6
22.5°	166.1	174.4	176.5
25°	164.0	174.4	176.5
27.5°	161.9	172.3	176.5
30°	159.9	172.3	178.6
32.5°	155.7	172.3	178.6
35°	153.6	172.3	178.6
37.5°	151.6	172.3	180.6
40°	149.5	172.3	180.6
42.5°	147.4	172.3	180.6
45°	145.3	170.2	180.6
47.5°	141.2	170.2	180.6
50°	139.1	168.2	178.6
52.5°	135.0	166.1	178.6
55°	130.8	161.9	172.3
57.5°	124.6	155.7	164.0
60°	116.3	147.4	155.7
62.5°	105.9	137.0	143.3
65°	97.6	124.6	132.9
67.5°	85.1	110.0	118.3
70°	74.7	95.5	103.8
72.5°	64.4	81.0	89.3
75°	54.0	66.4	72.7
77.5°	41.5	54.0	58.1
80°	33.2	41.5	45.7
82.5°	22.8	29.1	31.1
85°	14.5	18.7	20.8
87.5°	6.2	8.3	8.3
90°	0.0	0.0	0.0

(END OF REPORT)