

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: P1310744

Luminaire Tested: P3SQAS24R509040D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R509040D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

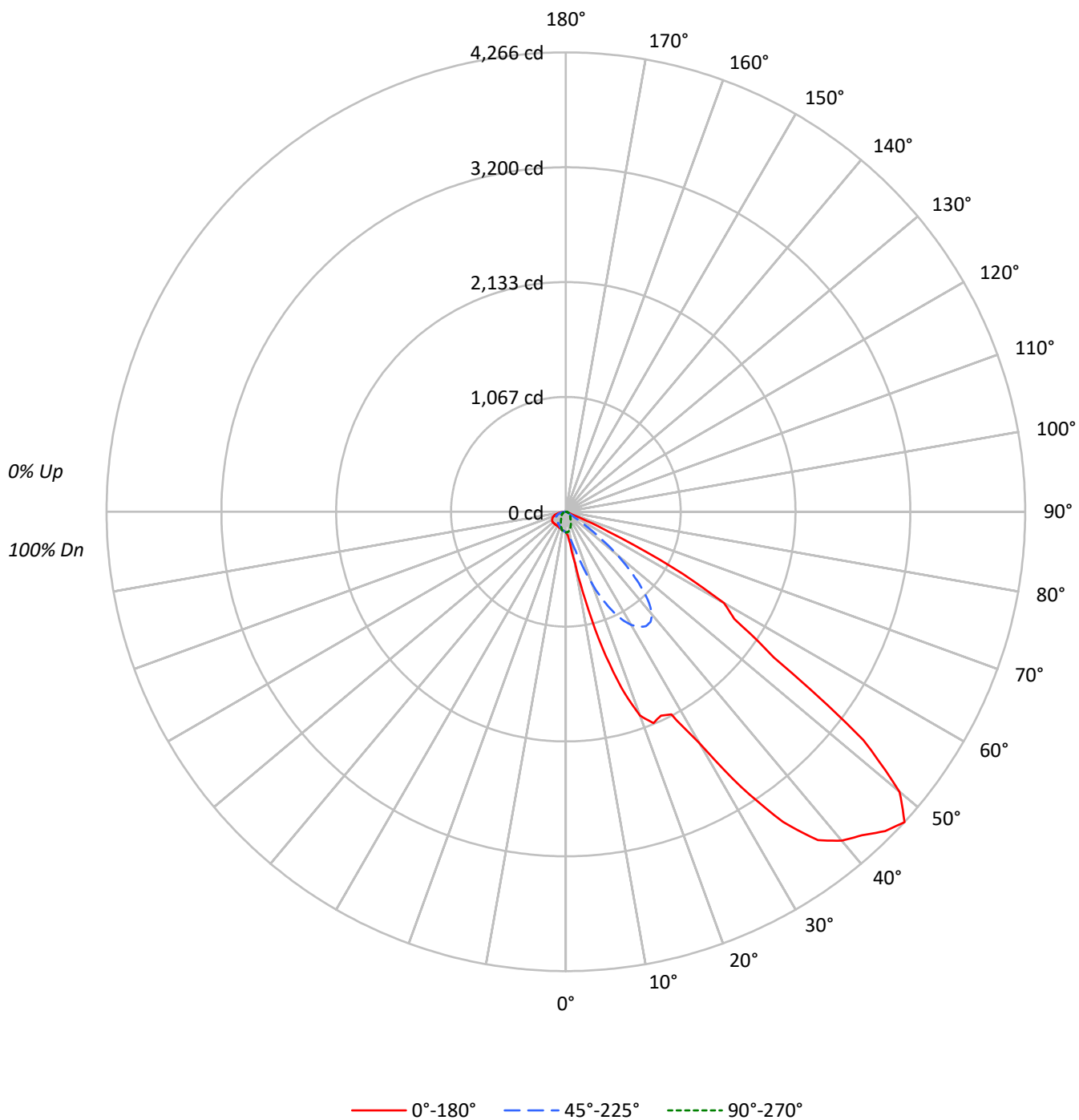
Lumens per Lamp: N/A
Luminaire Lumens: 2406.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	83	71	63	56	81	70	62	56	67	60	55		65	59	54		63	58	53	51
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	43	39	37
7	63	50	41	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	58	44	36	30	57	44	35	29	42	35	29		41	34	29		40	34	29	27
9	54	40	31	26	53	39	31	26	38	31	25		37	30	25		36	30	25	23
10	50	36	28	23	49	36	28	22	35	27	22		34	27	22		33	27	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32929	32929	32929	32929	32929
5°	39157	36651	32692	31257	30894
10°	84309	45434	31251	30167	30534
15°	233428	74475	28153	28902	30008
20°	369062	130639	24376	27803	29324
25°	396871	191927	20922	26851	29625
30°	492630	240946	18176	26449	30586
35°	739264	272646	15726	26659	32336
40°	896585	280329	14006	27563	34105
45°	1021416	240418	13664	29349	37459
50°	1084102	165930	13932	31750	41770
55°	708226	66778	13722	34320	46180
60°	584110	11470	13606	37235	50806
65°	176168	5909	12714	39814	55911
70°	7301	6294	12538	40787	60677
75°	6920	6920	12443	41455	66409
80°	6149	6149	12397	41258	68037
85°	4150	8299	16401	41101	65802

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 1087624 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	0.8
10°-20°	113.9	4.7
20°-30°	292.9	12.2
30°-40°	526.1	21.9
40°-50°	702.7	29.2
50°-60°	535.2	22.2
60°-70°	162.4	6.8
70°-80°	38.8	1.6
80°-90°	14.0	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°	426.7	17.7
0°-40°	952.8	39.6
0°-60°	2190.7	91.1
0°-90°	2406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2406.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	191	191	191	191	191	
5°	226	212	189	181	179	29
15°	1309	418	158	162	168	385
25°	2088	1010	110	141	156	997
35°	3516	1297	75	127	154	2159
45°	4194	987	56	120	154	3206
55°	2359	222	46	114	154	2347
65°	432	14	31	98	137	598
75°	10	10	19	62	100	11
85°	2	4	8	21	33	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°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2
2.5°	203.7	203.7	203.7	203.7	203.7	203.7	201.6	201.6	201.6	197.4	193.3
5°	226.5	228.6	226.5	226.5	222.4	222.4	218.2	218.2	212.0	199.5	189.1
7.5°	297.2	295.1	293.0	284.7	278.5	263.9	257.7	247.3	228.6	199.5	185.0
10°	482.1	469.7	461.4	442.6	403.2	378.2	345.0	311.7	259.8	199.5	178.7
12.5°	837.5	835.4	810.5	748.1	692.0	615.1	534.1	453.0	320.0	195.3	170.4
15°	1309.2	1290.5	1255.2	1182.5	1082.7	962.2	816.7	673.3	417.7	189.1	157.9
17.5°	1712.4	1689.5	1662.5	1589.8	1475.5	1323.8	1149.2	951.8	550.7	180.8	145.5
20°	2013.7	1999.2	1976.3	1918.1	1810.1	1672.9	1477.6	1238.6	712.8	170.4	133.0
22.5°	2123.9	2121.8	2126.0	2105.2	2051.1	1943.1	1756.0	1506.7	872.8	157.9	120.5
25°	2088.5	2086.5	2113.5	2140.5	2153.0	2109.3	1965.9	1722.8	1010.0	147.5	110.1
27.5°	2121.8	2115.6	2103.1	2107.3	2142.6	2167.5	2101.0	1889.0	1128.4	133.0	99.8
30°	2477.2	2441.8	2385.7	2290.1	2219.5	2213.2	2184.1	2020.0	1211.6	118.5	91.4
32.5°	3032.0	2988.4	2886.6	2709.9	2541.6	2412.7	2321.3	2130.1	1269.8	103.9	81.0
35°	3516.2	3485.1	3366.6	3192.0	2951.0	2709.9	2543.7	2292.2	1296.8	91.4	74.8
37.5°	3844.6	3832.1	3715.7	3528.7	3283.5	2998.8	2778.5	2458.5	1290.5	76.9	68.6
40°	3988.0	3950.6	3852.9	3695.0	3447.7	3192.0	2959.3	2564.4	1246.9	62.3	62.3
42.5°	4073.2	4031.6	3925.6	3776.0	3532.9	3260.6	2980.1	2518.7	1143.0	49.9	60.3
45°	4193.7	4150.1	4010.8	3850.8	3605.6	3289.7	2899.0	2356.6	987.1	37.4	56.1
47.5°	4266.5	4237.4	4133.5	3973.4	3676.3	3248.2	2712.0	2204.9	814.6	29.1	54.0
50°	4046.2	4017.1	3940.2	3830.0	3630.5	3108.9	2547.8	1959.7	619.3	22.9	52.0
52.5°	3483.0	3507.9	3522.5	3553.6	3408.2	2797.2	2302.6	1764.4	417.7	18.7	47.8
55°	2358.7	2396.1	2437.7	2562.4	2732.8	2489.6	2044.9	1525.4	222.4	18.7	45.7
57.5°	1853.7	1841.2	1828.8	1820.5	1953.5	2053.2	1797.6	1219.9	95.6	18.7	41.6
60°	1695.8	1658.4	1633.4	1639.7	1706.2	1666.7	1423.5	795.9	33.3	18.7	39.5
62.5°	1111.8	1140.9	1197.0	1292.6	1246.9	1070.3	827.1	315.9	16.6	18.7	35.3
65°	432.3	417.7	432.3	459.3	396.9	295.1	185.0	56.1	14.5	16.6	31.2
67.5°	58.2	52.0	39.5	24.9	22.9	20.8	16.6	14.5	14.5	16.6	29.1
70°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	12.5	12.5	14.5	24.9
72.5°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	14.5	20.8
75°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	12.5	18.7
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	10.4	14.5
80°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	8.3	12.5
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.2	6.2	8.3	10.4
85°	2.1	4.2	2.1	4.2	4.2	4.2	4.2	4.2	4.2	6.2	8.3
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	6.2	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):

	112.5°	135°	157.5°	180°
0°	191.2	191.2	191.2	191.2
2.5°	189.1	185.0	185.0	185.0
5°	185.0	180.8	180.8	178.7
7.5°	178.7	176.6	176.6	176.6
10°	174.6	172.5	174.6	174.6
12.5°	166.3	168.3	170.4	170.4
15°	157.9	162.1	166.3	168.3
17.5°	149.6	157.9	162.1	164.2
20°	141.3	151.7	157.9	160.0
22.5°	135.1	145.5	153.8	157.9
25°	126.8	141.3	151.7	155.9
27.5°	118.5	135.1	147.5	153.8
30°	112.2	133.0	147.5	153.8
32.5°	106.0	128.8	145.5	151.7
35°	101.8	126.8	145.5	153.8
37.5°	97.7	124.7	145.5	151.7
40°	95.6	122.6	145.5	151.7
42.5°	93.5	122.6	145.5	153.8
45°	89.4	120.5	145.5	153.8
47.5°	87.3	120.5	145.5	153.8
50°	85.2	118.5	145.5	155.9
52.5°	83.1	116.4	145.5	155.9
55°	79.0	114.3	143.4	153.8
57.5°	76.9	112.2	141.3	149.6
60°	72.7	108.1	137.2	147.5
62.5°	68.6	103.9	133.0	141.3
65°	62.3	97.7	126.8	137.2
67.5°	56.1	89.4	120.5	130.9
70°	49.9	81.0	112.2	120.5
72.5°	43.6	72.7	103.9	110.1
75°	37.4	62.3	91.4	99.8
77.5°	31.2	54.0	76.9	83.1
80°	22.9	41.6	62.3	68.6
82.5°	18.7	31.2	45.7	49.9
85°	12.5	20.8	29.1	33.3
87.5°	6.2	10.4	14.5	16.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)