

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: P1306290

Luminaire Tested: P3SQAS20R609024D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306290
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: P3SQAS20R609024D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 2400K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

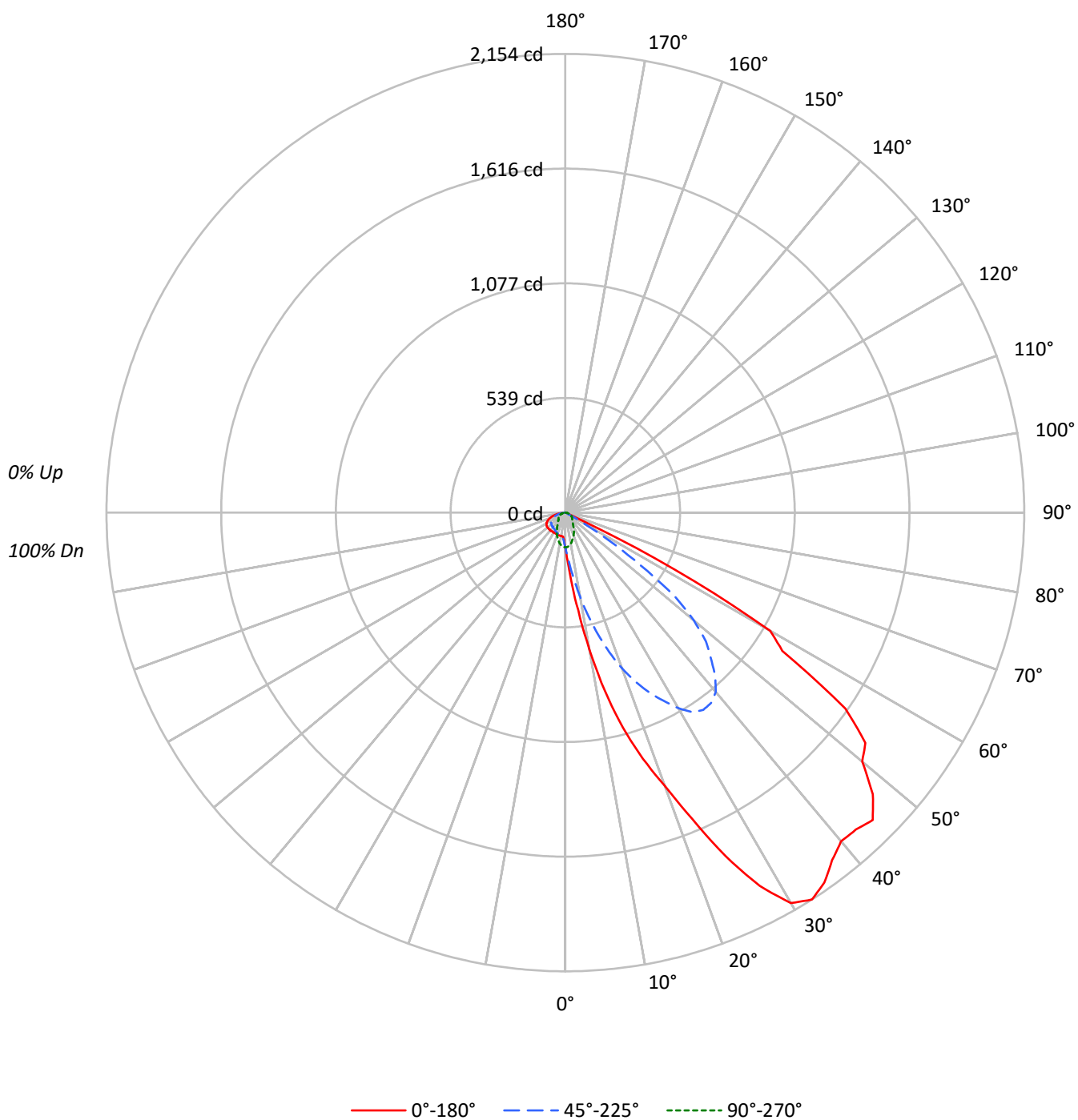
Lumens per Lamp: N/A
Luminaire Lumens: 1640.0 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	27986	27986	27986	27986	27986
5°	55149	43047	27574	20884	19847
10°	113934	70127	25812	19027	19289
15°	186321	105249	23125	19131	19666
20°	250006	142625	20765	19134	19940
25°	338247	177048	18129	18984	20675
30°	420979	210778	15114	18972	21637
35°	445698	237577	12846	19427	22559
40°	452789	247010	11736	20099	24460
45°	497081	235279	11252	21433	26499
50°	487313	210888	11173	22774	29151
55°	481649	129352	11200	24621	32218
60°	382024	30793	11814	26178	34927
65°	24288	5461	11533	26733	37654
70°	5237	5992	11279	27796	39780
75°	4991	5922	9915	26816	40657
80°	4463	5951	10315	26580	38481
85°	2964	5928	11856	23515	38335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 524650 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.3	1.2
10°-20°	102.2	6.2
20°-30°	237.2	14.5
30°-40°	368.6	22.5
40°-50°	420.1	25.6
50°-60°	353.8	21.6
60°-70°	102.7	6.3
70°-80°	26.3	1.6
80°-90°	8.9	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°	359.7	21.9
0°-40°	728.3	44.4
0°-60°	1502.2	91.6
0°-90°	1640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1640.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	162	162	162	162	162	
5°	319	249	160	121	115	41
15°	1045	590	130	107	110	302
25°	1780	932	95	100	109	827
35°	2120	1130	61	92	107	1317
45°	2041	966	46	88	109	1534
55°	1604	431	37	82	107	1350
65°	60	13	28	66	92	295
75°	8	9	15	40	61	8
85°	2	3	6	12	19	2
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°	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5
2.5°	219.1	217.7	217.7	216.2	214.7	213.2	208.7	207.2	198.3	180.4	162.5
5°	319.0	317.5	313.1	311.6	304.1	293.7	283.2	272.8	249.0	198.3	159.5
7.5°	462.1	465.1	462.1	445.7	435.3	418.9	387.6	365.2	317.5	216.2	153.6
10°	651.5	651.5	647.0	621.7	599.3	568.0	527.7	489.0	401.0	232.6	147.6
12.5°	857.2	861.7	839.3	818.4	778.2	739.4	684.3	626.1	496.4	246.0	140.1
15°	1045.0	1042.1	1019.7	992.9	951.1	897.5	839.3	764.8	590.3	254.9	129.7
17.5°	1212.0	1206.0	1186.7	1156.8	1106.2	1046.5	972.0	891.5	687.3	262.4	122.2
20°	1364.1	1343.2	1320.8	1289.5	1240.3	1177.7	1100.2	1009.3	778.2	262.4	113.3
22.5°	1556.4	1535.5	1504.2	1456.5	1390.9	1313.4	1222.4	1119.6	858.7	256.4	104.4
25°	1780.0	1763.6	1709.9	1648.8	1563.8	1471.4	1365.6	1226.9	931.7	247.5	95.4
27.5°	1975.3	1957.4	1903.7	1814.3	1711.4	1601.1	1489.3	1347.7	995.8	231.1	85.0
30°	2116.9	2094.5	2052.8	1967.8	1842.6	1708.4	1575.8	1440.1	1059.9	211.7	76.0
32.5°	2154.2	2151.2	2119.9	2057.3	1945.5	1797.9	1639.9	1492.3	1110.6	186.3	68.6
35°	2119.9	2124.4	2118.4	2087.1	2005.1	1860.5	1681.6	1520.6	1130.0	161.0	61.1
37.5°	2057.3	2063.2	2073.7	2078.1	2026.0	1897.8	1705.5	1532.5	1125.5	135.7	56.6
40°	2014.0	2011.1	2011.1	2040.9	2030.4	1914.2	1708.4	1523.6	1098.7	108.8	52.2
42.5°	2018.5	1985.7	1963.4	2011.1	2026.0	1906.7	1689.1	1499.7	1040.6	83.5	47.7
45°	2040.9	1970.8	1932.1	1993.2	2017.0	1881.4	1653.3	1463.9	966.0	58.1	46.2
47.5°	1957.4	1911.2	1905.2	1991.7	2000.6	1838.1	1598.1	1407.3	894.5	40.3	43.2
50°	1818.8	1811.3	1842.6	1932.1	1933.5	1766.6	1535.5	1304.4	787.1	28.3	41.7
52.5°	1775.5	1780.0	1808.3	1854.5	1811.3	1645.8	1422.2	1218.0	651.5	22.4	40.3
55°	1604.1	1611.5	1638.4	1666.7	1635.4	1498.2	1285.1	1113.6	430.8	20.9	37.3
57.5°	1207.5	1226.9	1276.1	1301.5	1304.4	1221.0	1164.3	960.1	243.0	20.9	35.8
60°	1109.1	1083.8	1061.4	1009.3	961.6	951.1	957.1	720.0	89.4	19.4	34.3
62.5°	579.9	568.0	602.3	624.6	630.6	663.4	620.2	380.1	19.4	19.4	31.3
65°	59.6	59.6	73.0	96.9	161.0	214.7	204.2	110.3	13.4	17.9	28.3
67.5°	17.9	17.9	17.9	20.9	26.8	26.8	22.4	16.4	13.4	16.4	25.3
70°	10.4	10.4	10.4	10.4	10.4	10.4	11.9	10.4	11.9	14.9	22.4
72.5°	8.9	8.9	8.9	8.9	10.4	10.4	10.4	10.4	10.4	13.4	19.4
75°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8.9	8.9	10.4	14.9
77.5°	6.0	6.0	6.0	6.0	6.0	6.0	7.5	7.5	7.5	8.9	11.9
80°	4.5	4.5	4.5	4.5	4.5	6.0	6.0	6.0	6.0	7.5	10.4
82.5°	3.0	3.0	3.0	3.0	4.5	4.5	4.5	4.5	4.5	6.0	7.5
85°	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	4.5
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°	162.5	162.5	162.5	162.5
2.5°	147.6	137.2	131.2	128.2
5°	134.2	120.8	116.3	114.8
7.5°	122.2	113.3	111.8	111.8
10°	114.8	108.8	110.3	110.3
12.5°	110.3	108.8	110.3	111.8
15°	105.8	107.3	110.3	110.3
17.5°	102.9	105.8	108.8	110.3
20°	98.4	104.4	108.8	108.8
22.5°	95.4	102.9	107.3	108.8
25°	92.4	99.9	105.8	108.8
27.5°	88.0	98.4	105.8	107.3
30°	83.5	95.4	104.4	108.8
32.5°	79.0	93.9	104.4	107.3
35°	76.0	92.4	104.4	107.3
37.5°	73.0	90.9	104.4	108.8
40°	71.6	89.4	102.9	108.8
42.5°	68.6	89.4	102.9	108.8
45°	67.1	88.0	102.9	108.8
47.5°	65.6	86.5	102.9	108.8
50°	62.6	85.0	101.4	108.8
52.5°	61.1	83.5	101.4	108.8
55°	58.1	82.0	99.9	107.3
57.5°	56.6	79.0	98.4	104.4
60°	53.7	76.0	95.4	101.4
62.5°	49.2	71.6	90.9	98.4
65°	44.7	65.6	86.5	92.4
67.5°	40.3	61.1	80.5	86.5
70°	35.8	55.2	73.0	79.0
72.5°	31.3	47.7	65.6	70.1
75°	26.8	40.3	55.2	61.1
77.5°	20.9	32.8	46.2	50.7
80°	16.4	26.8	35.8	38.8
82.5°	13.4	19.4	26.8	28.3
85°	8.9	11.9	16.4	19.4
87.5°	4.5	6.0	7.5	8.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)