

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: P1308525

Luminaire Tested: P3SQAS24R609030D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308525
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: P3SQAS24R609030D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

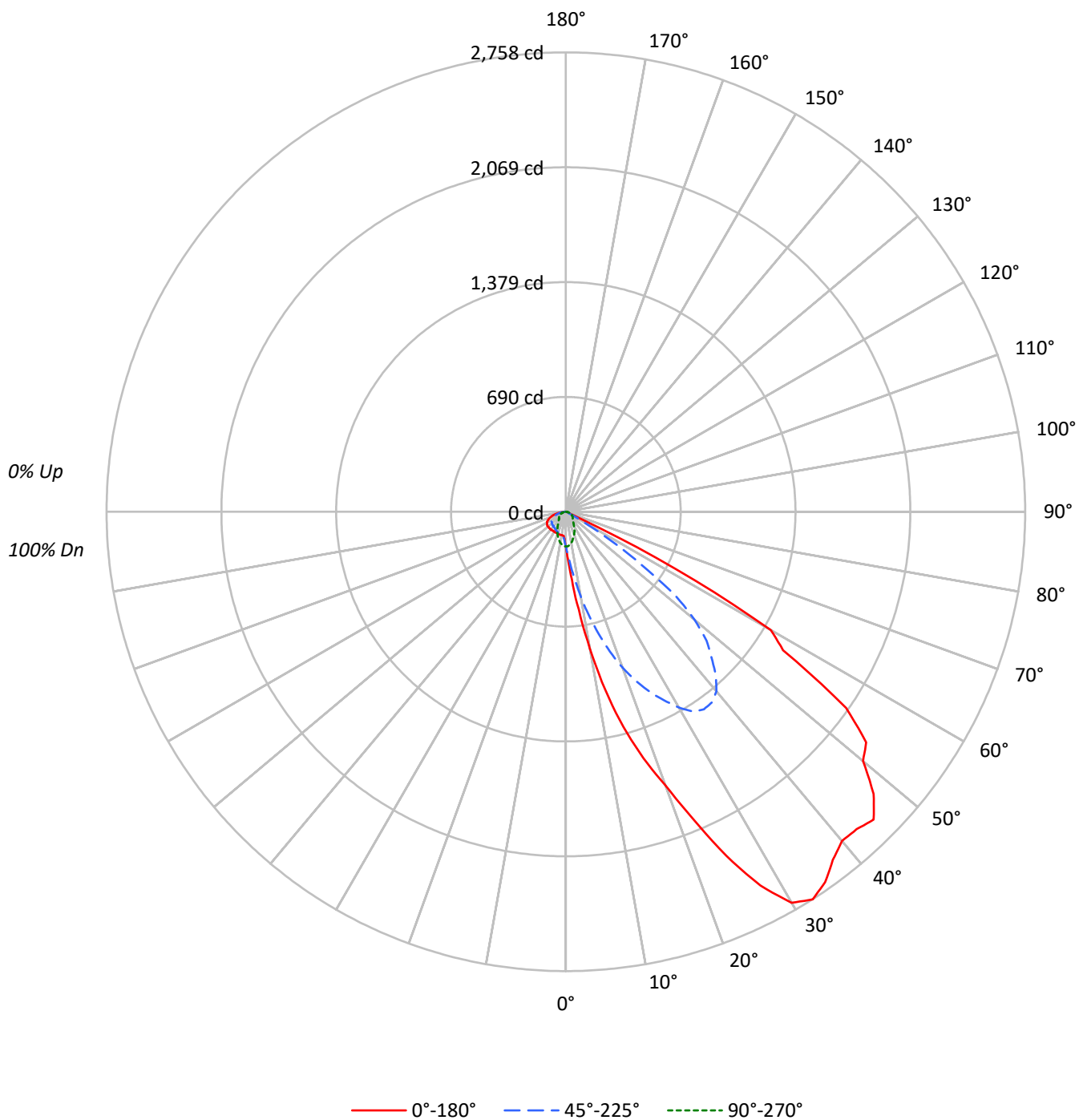
Lumens per Lamp: N/A
Luminaire Lumens: 2100.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1308525

CATALOG NUMBER: P3SQAS24R609030D010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1308525

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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	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°	35840	35840	35840	35840	35840
5°	70622	55114	35319	26727	25413
10°	145884	89801	33052	24378	24710
15°	238598	134775	29615	24498	25194
20°	320127	182634	26593	24486	25549
25°	433128	226721	23221	24304	26490
30°	539065	269900	19370	24301	27722
35°	570710	304225	16462	24893	28888
40°	579813	316300	15018	25742	31340
45°	636494	301283	14419	27425	33952
50°	623984	270048	14308	29151	37350
55°	616736	165654	14322	31527	41256
60°	489181	39439	15121	33549	44709
65°	31134	7009	14793	34231	48250
70°	6748	7704	14401	35550	50959
75°	6321	7652	12709	34269	52102
80°	5653	7538	13290	34118	49193
85°	3754	7509	15018	30233	49006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 671818 cd/sqm

TEST NUMBER: P1308525

CATALOG NUMBER: P3SQAS24R609030D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	1.2
10°-20°	130.9	6.2
20°-30°	303.7	14.5
30°-40°	472.0	22.5
40°-50°	537.9	25.6
50°-60°	453.0	21.6
60°-70°	131.4	6.3
70°-80°	33.7	1.6
80°-90°	11.4	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°	460.6	21.9
0°-40°	932.6	44.4
0°-60°	1923.5	91.6
0°-90°	2100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2100.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	208	208	208	208	208	
5°	408	319	204	155	147	52
15°	1338	756	166	137	141	387
25°	2279	1193	122	128	139	1059
35°	2714	1447	78	118	137	1686
45°	2613	1237	59	113	139	1965
55°	2054	552	48	105	137	1728
65°	76	17	36	84	118	378
75°	10	12	19	52	78	10
85°	2	4	8	15	25	3
90°	0	0	0	0	0	

TEST NUMBER: P1308525

CATALOG NUMBER: P3SQAS24R609030D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1	208.1
2.5°	280.6	278.7	278.7	276.8	274.9	273.0	267.2	265.3	253.9	231.0	208.1
5°	408.5	406.6	400.9	399.0	389.4	376.1	362.7	349.3	318.8	253.9	204.3
7.5°	591.8	595.6	591.8	570.8	557.4	536.4	496.3	467.7	406.6	276.8	196.6
10°	834.2	834.2	828.5	796.0	767.4	727.3	675.8	626.1	513.5	297.8	189.0
12.5°	1097.6	1103.4	1074.7	1048.0	996.5	946.8	876.2	801.7	635.7	315.0	179.4
15°	1338.2	1334.3	1305.7	1271.3	1217.9	1149.2	1074.7	979.3	755.9	326.4	166.1
17.5°	1552.0	1544.3	1519.5	1481.3	1416.4	1340.1	1244.6	1141.5	880.0	336.0	156.5
20°	1746.7	1719.9	1691.3	1651.2	1588.2	1508.1	1408.8	1292.3	996.5	336.0	145.1
22.5°	1992.9	1966.2	1926.1	1865.0	1781.0	1681.8	1565.3	1433.6	1099.5	328.3	133.6
25°	2279.3	2258.3	2189.5	2111.3	2002.5	1884.1	1748.6	1571.0	1193.1	316.9	122.2
27.5°	2529.3	2506.4	2437.7	2323.2	2191.4	2050.2	1907.0	1725.7	1275.2	295.9	108.8
30°	2710.7	2682.0	2628.6	2519.8	2359.4	2187.6	2017.7	1844.0	1357.2	271.1	97.4
32.5°	2758.4	2754.6	2714.5	2634.3	2491.2	2302.2	2099.8	1910.8	1422.2	238.6	87.8
35°	2714.5	2720.2	2712.6	2672.5	2567.5	2382.3	2153.3	1947.1	1447.0	206.2	78.3
37.5°	2634.3	2642.0	2655.3	2661.0	2594.2	2430.1	2183.8	1962.4	1441.2	173.7	72.5
40°	2579.0	2575.1	2575.1	2613.3	2600.0	2451.1	2187.6	1950.9	1406.9	139.4	66.8
42.5°	2584.7	2542.7	2514.1	2575.1	2594.2	2441.5	2162.8	1920.4	1332.4	106.9	61.1
45°	2613.3	2523.6	2474.0	2552.2	2582.8	2409.1	2117.0	1874.6	1237.0	74.4	59.2
47.5°	2506.4	2447.2	2439.6	2550.3	2561.8	2353.7	2046.4	1802.0	1145.4	51.5	55.4
50°	2328.9	2319.3	2359.4	2474.0	2475.9	2262.1	1966.2	1670.3	1007.9	36.3	53.4
52.5°	2273.5	2279.3	2315.5	2374.7	2319.3	2107.5	1821.1	1559.6	834.2	28.6	51.5
55°	2054.0	2063.6	2097.9	2134.2	2094.1	1918.5	1645.5	1426.0	551.7	26.7	47.7
57.5°	1546.2	1571.0	1634.0	1666.5	1670.3	1563.4	1490.9	1229.3	311.2	26.7	45.8
60°	1420.2	1387.8	1359.2	1292.3	1231.3	1217.9	1225.5	922.0	114.5	24.8	43.9
62.5°	742.6	727.3	771.2	799.8	807.5	849.5	794.1	486.8	24.8	24.8	40.1
65°	76.4	76.4	93.5	124.1	206.2	274.9	261.5	141.3	17.2	22.9	36.3
67.5°	22.9	22.9	22.9	26.7	34.4	34.4	28.6	21.0	17.2	21.0	32.5
70°	13.4	13.4	13.4	13.4	13.4	13.4	15.3	13.4	15.3	19.1	28.6
72.5°	11.5	11.5	11.5	11.5	13.4	13.4	13.4	13.4	13.4	17.2	24.8
75°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	11.5	11.5	13.4	19.1
77.5°	7.6	7.6	7.6	7.6	7.6	7.6	9.5	9.5	9.5	11.5	15.3
80°	5.7	5.7	5.7	5.7	5.7	7.6	7.6	7.6	7.6	9.5	13.4
82.5°	3.8	3.8	3.8	3.8	5.7	5.7	5.7	5.7	5.7	7.6	9.5
85°	1.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.7	7.6
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1308525

CATALOG NUMBER: P3SQAS24R609030D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	208.1	208.1	208.1	208.1
2.5°	189.0	175.6	168.0	164.2
5°	171.8	154.6	148.9	147.0
7.5°	156.5	145.1	143.2	143.2
10°	147.0	139.4	141.3	141.3
12.5°	141.3	139.4	141.3	143.2
15°	135.5	137.4	141.3	141.3
17.5°	131.7	135.5	139.4	141.3
20°	126.0	133.6	139.4	139.4
22.5°	122.2	131.7	137.4	139.4
25°	118.4	127.9	135.5	139.4
27.5°	112.6	126.0	135.5	137.4
30°	106.9	122.2	133.6	139.4
32.5°	101.2	120.3	133.6	137.4
35°	97.4	118.4	133.6	137.4
37.5°	93.5	116.4	133.6	139.4
40°	91.6	114.5	131.7	139.4
42.5°	87.8	114.5	131.7	139.4
45°	85.9	112.6	131.7	139.4
47.5°	84.0	110.7	131.7	139.4
50°	80.2	108.8	129.8	139.4
52.5°	78.3	106.9	129.8	139.4
55°	74.4	105.0	127.9	137.4
57.5°	72.5	101.2	126.0	133.6
60°	68.7	97.4	122.2	129.8
62.5°	63.0	91.6	116.4	126.0
65°	57.3	84.0	110.7	118.4
67.5°	51.5	78.3	103.1	110.7
70°	45.8	70.6	93.5	101.2
72.5°	40.1	61.1	84.0	89.7
75°	34.4	51.5	70.6	78.3
77.5°	26.7	42.0	59.2	64.9
80°	21.0	34.4	45.8	49.6
82.5°	17.2	24.8	34.4	36.3
85°	11.5	15.3	21.0	24.8
87.5°	5.7	7.6	9.5	11.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)