

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: P1310616

Luminaire Tested: P3SQAS20R609040D010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310616
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: P3SQAS20R609040D010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 90CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

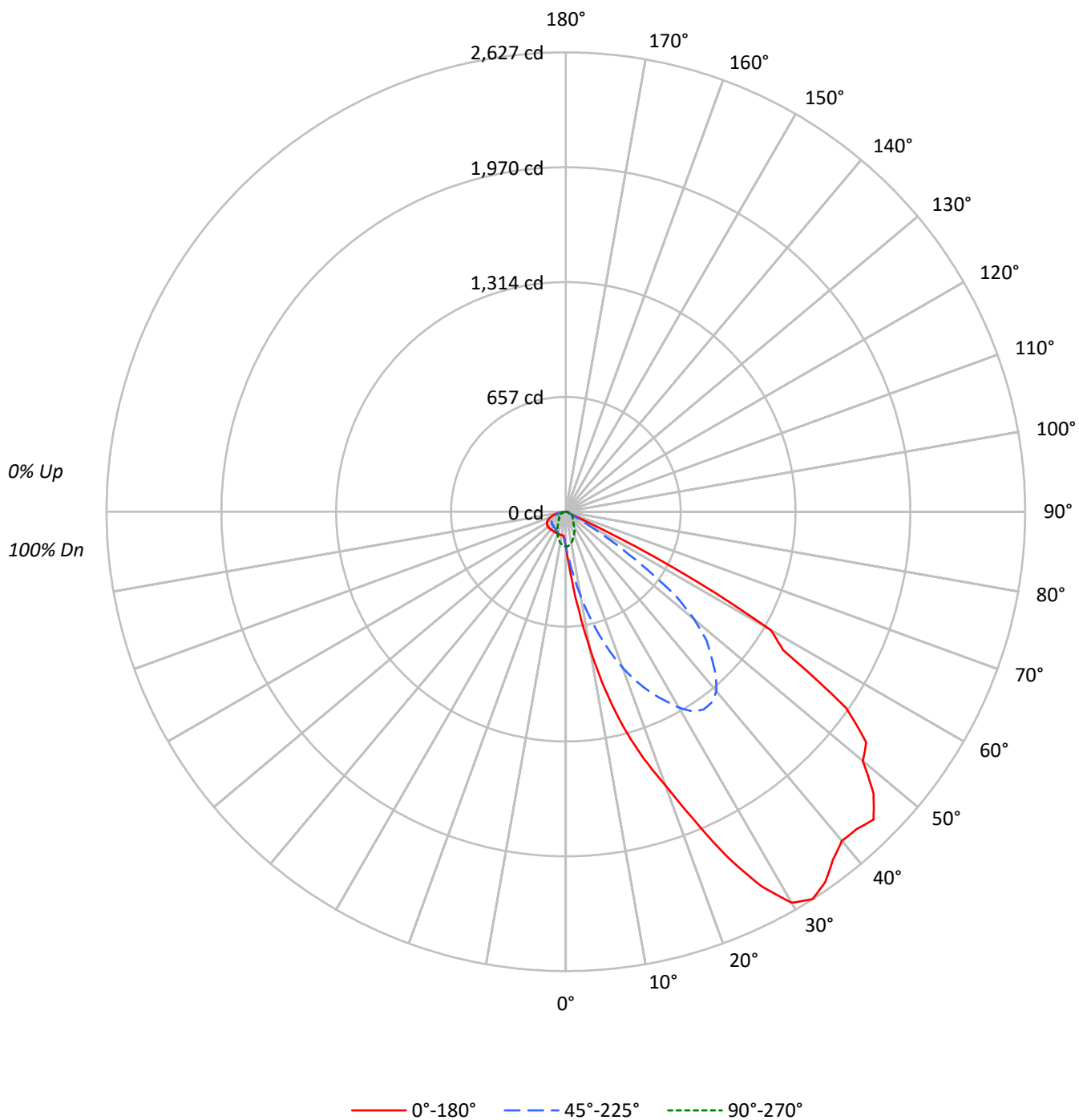
Lumens per Lamp: N/A
Luminaire Lumens: 2000.0 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1310616

CATALOG NUMBER: P3SQAS20R609040D010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1310616

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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°	34135	34135	34135	34135	34135
5°	67268	52487	33625	25465	24203
10°	138942	85516	31478	23207	23521
15°	227223	128357	28207	23339	23981
20°	304879	173928	25329	23331	24321
25°	412491	215927	22119	23145	25217
30°	513391	257054	18435	23148	26389
35°	543525	289739	15663	23695	27521
40°	552205	301237	14299	24528	29834
45°	606195	286938	13737	26134	32320
50°	594271	257187	13638	27758	35554
55°	587371	157757	13662	30026	39304
60°	465897	37579	14398	31930	42573
65°	29626	6683	14059	32601	45927
70°	6395	7301	13747	33889	48542
75°	6055	7253	12111	32672	49574
80°	5455	7240	12596	32432	46912
85°	3557	7114	14425	28652	46634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 639822 cd/sqm

TEST NUMBER: P1310616

CATALOG NUMBER: P3SQAS20R609040D010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	1.2
10°-20°	124.7	6.2
20°-30°	289.2	14.5
30°-40°	449.6	22.5
40°-50°	512.3	25.6
50°-60°	431.4	21.6
60°-70°	125.2	6.3
70°-80°	32.1	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°	438.6	21.9
0°-40°	888.2	44.4
0°-60°	1831.9	91.6
0°-90°	2000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2000.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	198	198	198	198	198	
5°	389	304	194	147	140	50
15°	1274	720	158	131	134	369
25°	2171	1136	116	122	133	1008
35°	2585	1378	74	113	131	1606
45°	2489	1178	56	107	133	1871
55°	1956	525	46	100	131	1646
65°	73	16	34	80	113	360
75°	9	11	18	49	74	10
85°	2	4	7	14	24	3
90°	0	0	0	0	0	

TEST NUMBER: P1310616

CATALOG NUMBER: P3SQAS20R609040D010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2
2.5°	267.2	265.4	265.4	263.6	261.8	260.0	254.5	252.7	241.8	220.0	198.2
5°	389.1	387.2	381.8	380.0	370.9	358.2	345.4	332.7	303.6	241.8	194.5
7.5°	563.6	567.2	563.6	543.6	530.9	510.9	472.7	445.4	387.2	263.6	187.3
10°	794.5	794.5	789.0	758.1	730.8	692.7	643.6	596.3	489.0	283.6	180.0
12.5°	1045.4	1050.8	1023.5	998.1	949.0	901.7	834.5	763.6	605.4	300.0	170.9
15°	1274.4	1270.8	1243.5	1210.8	1159.9	1094.5	1023.5	932.6	719.9	310.9	158.2
17.5°	1478.1	1470.8	1447.1	1410.8	1349.0	1276.3	1185.4	1087.2	838.1	320.0	149.1
20°	1663.5	1638.0	1610.8	1572.6	1512.6	1436.2	1341.7	1230.8	949.0	320.0	138.2
22.5°	1898.0	1872.6	1834.4	1776.2	1696.2	1601.7	1490.8	1365.3	1047.2	312.7	127.3
25°	2170.7	2150.7	2085.3	2010.7	1907.1	1794.4	1665.3	1496.2	1136.3	301.8	116.4
27.5°	2408.9	2387.1	2321.6	2212.5	2087.1	1952.6	1816.2	1643.5	1214.4	281.8	103.6
30°	2581.6	2554.3	2503.4	2399.8	2247.1	2083.5	1921.7	1756.2	1292.6	258.2	92.7
32.5°	2627.0	2623.4	2585.2	2508.9	2372.5	2192.5	1999.8	1819.8	1354.4	227.3	83.6
35°	2585.2	2590.7	2583.4	2545.2	2445.2	2268.9	2050.7	1854.4	1378.1	196.3	74.5
37.5°	2508.9	2516.1	2528.9	2534.3	2470.7	2314.3	2079.8	1868.9	1372.6	165.4	69.1
40°	2456.2	2452.5	2452.5	2488.9	2476.2	2334.3	2083.5	1858.0	1339.9	132.7	63.6
42.5°	2461.6	2421.6	2394.3	2452.5	2470.7	2325.3	2059.8	1828.9	1269.0	101.8	58.2
45°	2488.9	2403.4	2356.2	2430.7	2459.8	2294.3	2016.2	1785.3	1178.1	70.9	56.4
47.5°	2387.1	2330.7	2323.4	2428.9	2439.8	2241.6	1948.9	1716.2	1090.8	49.1	52.7
50°	2218.0	2208.9	2247.1	2356.2	2358.0	2154.4	1872.6	1590.8	959.9	34.5	50.9
52.5°	2165.3	2170.7	2205.3	2261.6	2208.9	2007.1	1734.4	1485.3	794.5	27.3	49.1
55°	1956.2	1965.3	1998.0	2032.6	1994.4	1827.1	1567.1	1358.1	525.4	25.5	45.5
57.5°	1472.6	1496.2	1556.2	1587.1	1590.8	1489.0	1419.9	1170.8	296.3	25.5	43.6
60°	1352.6	1321.7	1294.4	1230.8	1172.6	1159.9	1167.2	878.1	109.1	23.6	41.8
62.5°	707.2	692.7	734.5	761.8	769.0	809.0	756.3	463.6	23.6	23.6	38.2
65°	72.7	72.7	89.1	118.2	196.3	261.8	249.1	134.5	16.4	21.8	34.5
67.5°	21.8	21.8	21.8	25.5	32.7	32.7	27.3	20.0	16.4	20.0	30.9
70°	12.7	12.7	12.7	12.7	12.7	12.7	14.5	12.7	14.5	18.2	27.3
72.5°	10.9	10.9	10.9	10.9	12.7	12.7	12.7	12.7	12.7	16.4	23.6
75°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	10.9	10.9	12.7	18.2
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	9.1	9.1	9.1	10.9	14.5
80°	5.5	5.5	5.5	5.5	5.5	7.3	7.3	7.3	7.3	9.1	12.7
82.5°	3.6	3.6	3.6	3.6	5.5	5.5	5.5	5.5	5.5	7.3	9.1
85°	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.5	7.3
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	5.5
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: P1310616

CATALOG NUMBER: P3SQAS20R609040D010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	198.2	198.2	198.2	198.2
2.5°	180.0	167.3	160.0	156.4
5°	163.6	147.3	141.8	140.0
7.5°	149.1	138.2	136.4	136.4
10°	140.0	132.7	134.5	134.5
12.5°	134.5	132.7	134.5	136.4
15°	129.1	130.9	134.5	134.5
17.5°	125.4	129.1	132.7	134.5
20°	120.0	127.3	132.7	132.7
22.5°	116.4	125.4	130.9	132.7
25°	112.7	121.8	129.1	132.7
27.5°	107.3	120.0	129.1	130.9
30°	101.8	116.4	127.3	132.7
32.5°	96.4	114.5	127.3	130.9
35°	92.7	112.7	127.3	130.9
37.5°	89.1	110.9	127.3	132.7
40°	87.3	109.1	125.4	132.7
42.5°	83.6	109.1	125.4	132.7
45°	81.8	107.3	125.4	132.7
47.5°	80.0	105.4	125.4	132.7
50°	76.4	103.6	123.6	132.7
52.5°	74.5	101.8	123.6	132.7
55°	70.9	100.0	121.8	130.9
57.5°	69.1	96.4	120.0	127.3
60°	65.4	92.7	116.4	123.6
62.5°	60.0	87.3	110.9	120.0
65°	54.5	80.0	105.4	112.7
67.5°	49.1	74.5	98.2	105.4
70°	43.6	67.3	89.1	96.4
72.5°	38.2	58.2	80.0	85.4
75°	32.7	49.1	67.3	74.5
77.5°	25.5	40.0	56.4	61.8
80°	20.0	32.7	43.6	47.3
82.5°	16.4	23.6	32.7	34.5
85°	10.9	14.5	20.0	23.6
87.5°	5.5	7.3	9.1	10.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)