

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: CORELITE

Report Number: P854118

Luminaire Tested: SQ2-PP3-100D-930-UNV-STD-W-4

Issue Date: 7/12/2024

**Test Information**

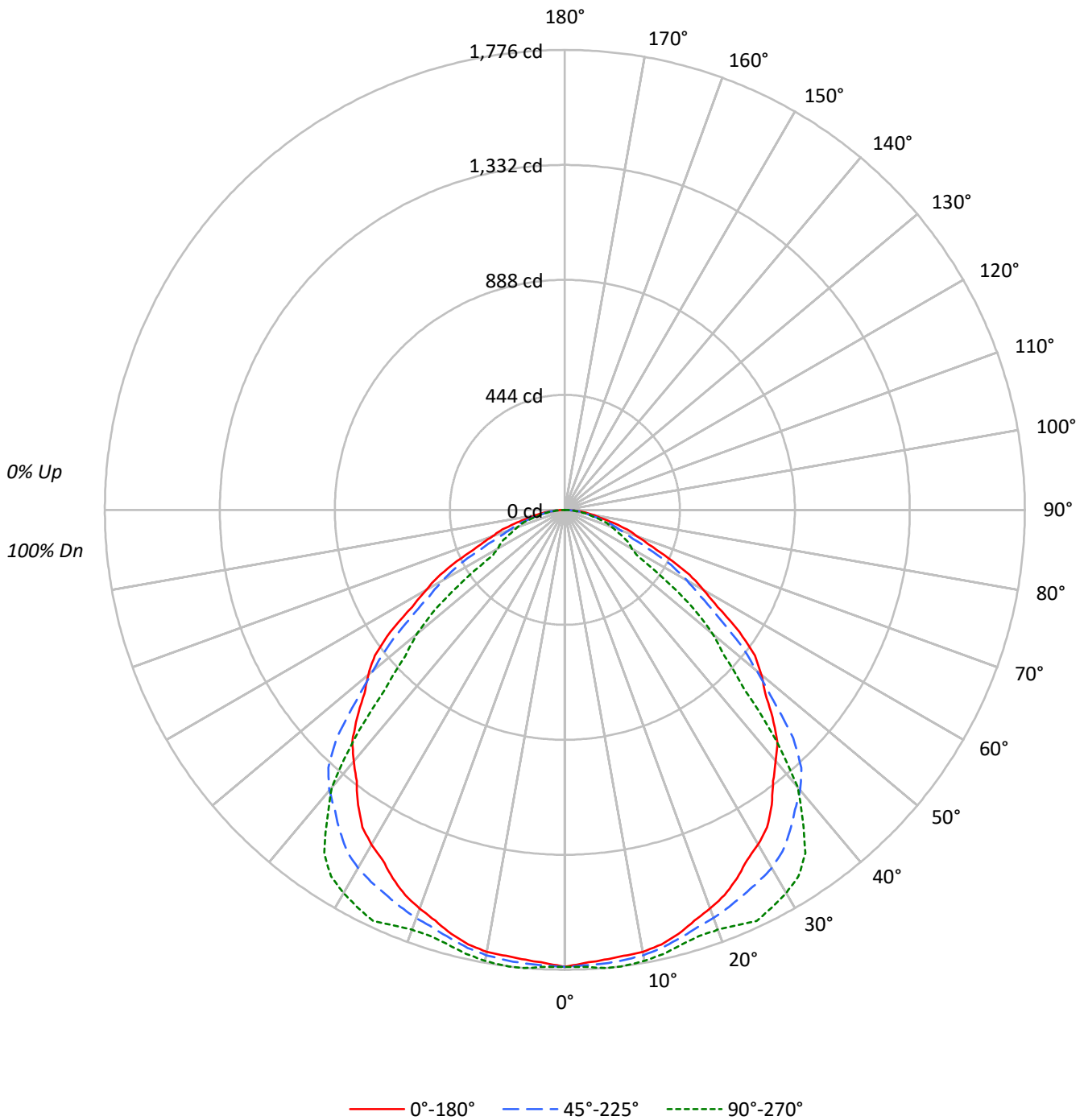
Test Method: LM-79-2019  
Report Number: P854118  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-131-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2-PP3-100D-930-UNV-STD-W-4  
Description: CORELITE SQ2 SURFACE LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4444.3 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.41 / 1.4  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.6  
Input Voltage (V): 120  
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				
RC	80					70					50					30				
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	107	104	100	97	99	97	94	96	93	91	92	90	89	87		
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74		
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	50	48		
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38		
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31		
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	28493	28493	28493
5°	28269	28511	28783
10°	28412	28627	28994
15°	28344	28625	29061
20°	28142	28816	29649
25°	27982	29179	31206
30°	27824	29770	31858
35°	27429	29857	31915
40°	26698	29803	29489
45°	25898	28453	22448
50°	24882	24272	18696
55°	23159	20428	13444
60°	19940	17531	9639
65°	16821	13540	9478
70°	14002	10655	9069
75°	11871	9195	8497
80°	10060	7978	7634
85°	7947	6558	4150

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 28453 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.0	3.8
10°-20°	486.3	10.9
20°-30°	761.9	17.1
30°-40°	939.9	21.1
40°-50°	884.9	19.9
50°-60°	626.5	14.1
60°-70°	357.0	8.0
70°-80°	176.6	4.0
80°-90°	43.2	1.0
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°	1416.2	31.9
0°-40°	2356.1	53.0
0°-60°	3867.5	87.0
0°-90°	4444.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4444.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1744	1775	1759	1763	1776	166
15°	1696	1719	1712	1730	1739	478
25°	1571	1611	1638	1704	1752	723
35°	1392	1430	1515	1601	1619	868
45°	1134	1220	1246	1056	983	873
55°	823	872	726	547	478	726
65°	440	464	354	250	248	442
75°	190	210	147	138	136	206
85°	43	39	35	28	22	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1764.7	1764.7	1764.7	1764.7	1764.7
2.5°	1751.3	1776.1	1760.3	1763.3	1766.2
5°	1744.2	1775.2	1759.1	1763.2	1775.9
7.5°	1737.5	1769.2	1753.5	1760.2	1775.9
10°	1733.0	1760.4	1746.1	1755.7	1768.5
12.5°	1719.6	1745.5	1732.6	1745.2	1756.5
15°	1695.7	1719.4	1712.5	1729.5	1738.6
17.5°	1663.3	1692.1	1692.0	1716.1	1725.6
20°	1637.9	1672.5	1677.1	1707.3	1725.6
22.5°	1611.0	1651.5	1659.1	1704.6	1736.0
25°	1570.7	1610.9	1637.9	1704.3	1751.7
27.5°	1523.7	1563.5	1619.2	1693.6	1731.2
30°	1492.4	1530.7	1596.8	1674.1	1708.8
32.5°	1453.6	1493.3	1564.0	1647.2	1678.9
35°	1391.6	1429.9	1514.8	1601.0	1619.2
37.5°	1320.4	1363.8	1458.8	1507.0	1508.0
40°	1266.7	1323.2	1414.0	1422.8	1399.1
42.5°	1214.4	1287.0	1351.3	1312.0	1206.6
45°	1134.2	1219.9	1246.1	1056.1	983.1
47.5°	1048.8	1133.4	1091.7	885.7	835.4
50°	990.6	1070.8	966.3	791.7	744.3
52.5°	924.9	996.4	854.4	701.6	629.4
55°	822.7	871.9	725.7	546.9	477.6
57.5°	699.6	734.2	620.5	410.5	332.8
60°	617.5	644.8	542.9	336.8	298.5
62.5°	542.9	567.3	462.3	292.6	279.1
65°	440.3	464.0	354.4	249.9	248.1
67.5°	350.3	376.2	272.0	218.2	216.0
70°	296.6	324.0	225.7	195.8	192.1
72.5°	251.8	277.7	191.4	171.9	169.8
75°	190.3	210.3	147.4	138.0	136.2
77.5°	138.0	150.8	109.7	104.8	103.0
80°	108.2	113.7	85.8	83.9	82.1
82.5°	81.3	79.5	64.9	63.0	59.7
85°	42.9	39.3	35.4	27.9	22.4
87.5°	13.4	13.4	6.0	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	23.08	24.60	23.44	24.92	25.23	19.48	21.00	19.84	21.31	21.63
	3H	24.22	25.59	24.60	25.91	26.28	20.63	21.99	21.01	22.32	22.68
	4H	24.60	25.87	25.00	26.22	26.60	21.12	22.40	21.52	22.75	23.13
	6H	24.84	26.02	25.26	26.39	26.78	21.50	22.68	21.91	23.04	23.44
	8H	24.91	26.03	25.34	26.42	26.82	21.60	22.72	22.03	23.11	23.52
	12H	24.95	26.02	25.38	26.40	26.83	21.64	22.71	22.07	23.09	23.52
4H	2H	23.27	24.54	23.67	24.89	25.27	20.27	21.55	20.67	21.89	22.27
	3H	24.64	25.69	25.05	26.09	26.49	21.58	22.63	21.99	23.03	23.43
	4H	25.14	26.08	25.57	26.50	26.94	22.16	23.11	22.59	23.52	23.96
	6H	25.51	26.33	25.96	26.77	27.23	22.63	23.46	23.09	23.90	24.36
	8H	25.61	26.38	26.08	26.82	27.29	22.77	23.54	23.23	23.98	24.45
	12H	25.68	26.36	26.16	26.84	27.31	22.82	23.51	23.31	23.99	24.46
8H	4H	25.20	25.97	25.66	26.41	26.88	22.48	23.25	22.94	23.69	24.16
	6H	25.65	26.29	26.15	26.78	27.26	23.05	23.68	23.54	24.17	24.65
	8H	25.81	26.38	26.32	26.89	27.38	23.23	23.80	23.75	24.31	24.80
	12H	25.92	26.43	26.43	26.92	27.49	23.33	23.84	23.84	24.33	24.90
12H	4H	25.19	25.87	25.67	26.35	26.82	22.51	23.20	23.00	23.68	24.15
	6H	25.64	26.21	26.16	26.72	27.21	23.10	23.67	23.61	24.18	24.67
	8H	25.84	26.35	26.35	26.84	27.40	23.33	23.84	23.84	24.33	24.90