

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: P854199

Luminaire Tested: SQ2-PR1-0U-075D-930-UNV-STD-W-4

Issue Date: 7/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P854199  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-131-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2-PR1-0U-075D-930-UNV-STD-W-4  
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: -

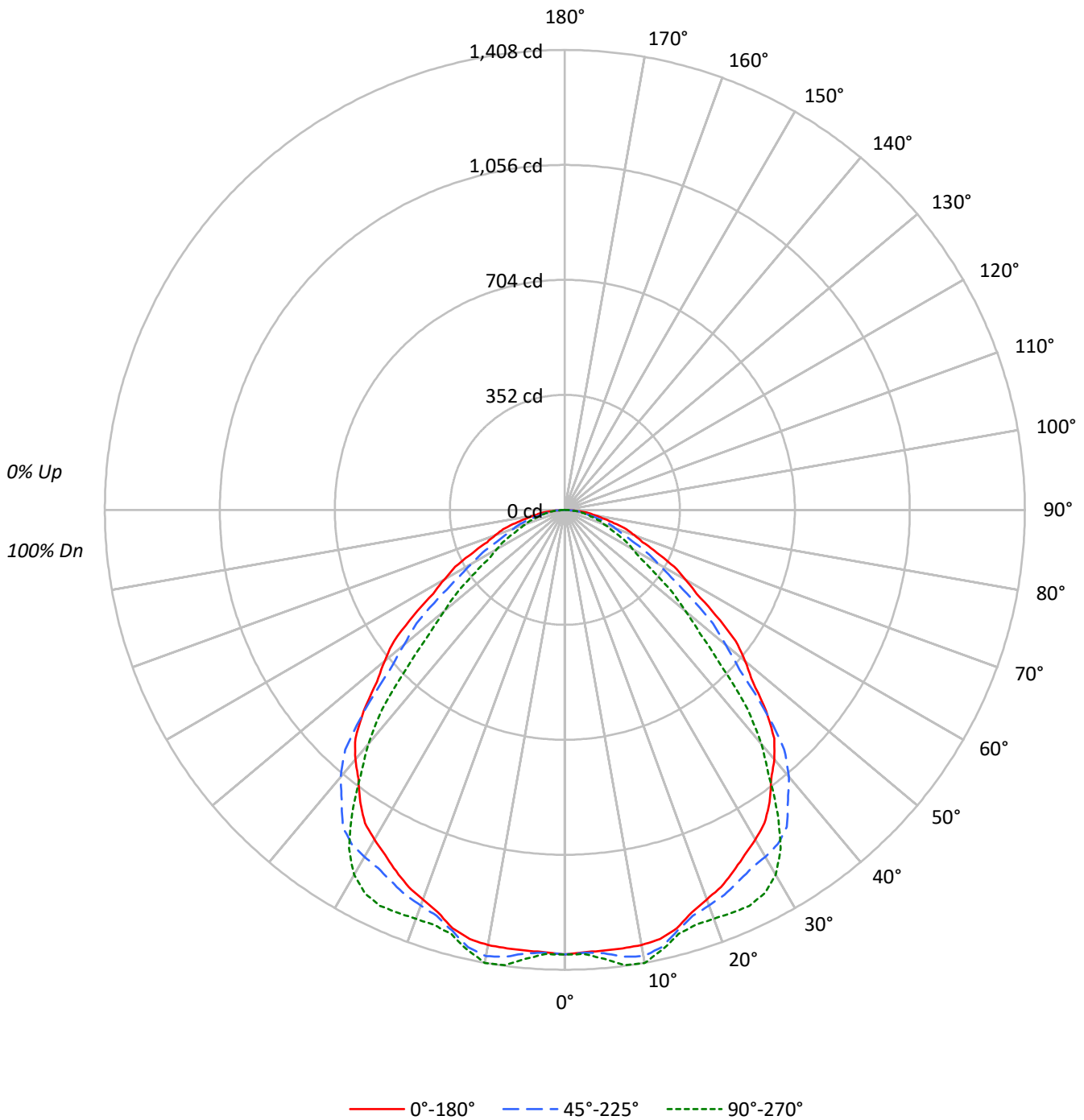
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3274.3 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 26.7  
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				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	101	97	100	97	94	96	94	92	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	77	71	91	82	76	70	80	74	69	77	72	68	74	70	67	65
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29

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

	0°	45°	90°
0°	21976	21976	21976
5°	21948	22083	22352
10°	22179	22748	23089
15°	22171	22288	22474
20°	21813	22148	22886
25°	21752	22370	23828
30°	21729	22866	24056
35°	21522	23355	22397
40°	21026	22489	19711
45°	19895	19737	15586
50°	18088	16136	12095
55°	15896	13278	9413
60°	13756	10618	7750
65°	11874	8798	6785
70°	10678	7794	6024
75°	9782	6750	5540
80°	8517	5421	5421
85°	6169	4891	2575

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 21507 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.4	4.0
10°-20°	380.5	11.6
20°-30°	588.2	18.0
30°-40°	707.4	21.6
40°-50°	635.2	19.4
50°-60°	425.5	13.0
60°-70°	247.5	7.6
70°-80°	127.1	3.9
80°-90°	31.4	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°	1100.1	33.6
0°-40°	1807.5	55.2
0°-60°	2868.3	87.6
0°-90°	3274.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3274.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1354	1377	1362	1366	1379	129
15°	1326	1381	1333	1338	1344	372
25°	1221	1270	1256	1302	1338	563
35°	1092	1101	1185	1162	1136	681
45°	871	942	864	729	683	667
55°	565	586	472	364	334	507
65°	311	318	230	187	178	314
75°	157	153	108	92	89	166
85°	33	26	26	18	14	42
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1361.1	1361.1	1361.1	1361.1	1361.1
2.5°	1355.6	1371.8	1356.7	1357.9	1361.1
5°	1354.2	1377.2	1362.5	1365.6	1379.1
7.5°	1353.9	1386.7	1379.7	1388.2	1406.1
10°	1352.8	1392.1	1387.5	1389.3	1408.3
12.5°	1346.1	1392.0	1370.8	1369.1	1379.4
15°	1326.4	1380.7	1333.4	1337.7	1344.5
17.5°	1291.7	1348.4	1303.4	1318.7	1332.0
20°	1269.5	1325.2	1289.0	1308.9	1332.0
22.5°	1249.6	1305.2	1275.6	1303.6	1335.3
25°	1221.0	1269.8	1255.7	1302.2	1337.5
27.5°	1191.0	1219.8	1236.5	1299.0	1323.6
30°	1165.5	1184.5	1226.5	1280.9	1290.3
32.5°	1137.7	1149.1	1213.2	1241.5	1229.3
35°	1091.9	1101.4	1184.9	1162.1	1136.3
37.5°	1037.6	1057.1	1121.4	1055.7	1026.2
40°	997.6	1030.2	1067.0	969.1	935.2
42.5°	948.8	1000.8	994.8	870.1	828.6
45°	871.3	941.9	864.4	728.8	682.6
47.5°	780.0	852.5	725.6	604.5	561.4
50°	720.1	778.4	642.4	528.9	481.5
52.5°	659.0	701.1	571.4	458.0	414.9
55°	564.7	586.4	471.7	364.2	334.4
57.5°	478.1	492.0	385.4	294.2	272.2
60°	426.0	435.4	328.8	257.7	240.0
62.5°	378.2	385.6	283.3	226.7	213.4
65°	310.8	317.6	230.3	187.1	177.6
67.5°	257.2	260.8	189.5	155.5	146.5
70°	226.2	227.5	165.1	134.4	127.6
72.5°	198.4	196.5	141.8	116.7	112.1
75°	156.8	152.7	108.2	91.5	88.8
77.5°	117.1	112.8	76.0	70.5	70.5
80°	91.6	86.1	58.3	58.3	58.3
82.5°	68.3	60.7	45.0	44.9	43.8
85°	33.3	26.5	26.4	17.9	13.9
87.5°	8.9	8.9	3.3	3.3	3.3
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	21.44	22.93	21.80	23.25	23.56	18.16	19.66	18.53	19.97	20.29
	3H	22.72	24.06	23.10	24.38	24.75	19.28	20.61	19.65	20.94	21.30
	4H	23.20	24.45	23.60	24.80	25.18	19.70	20.96	20.10	21.31	21.68
	6H	23.55	24.70	23.96	25.07	25.46	20.07	21.22	20.48	21.59	21.98
	8H	23.65	24.74	24.07	25.13	25.54	20.17	21.27	20.60	21.66	22.06
	12H	23.69	24.74	24.12	25.13	25.56	20.20	21.25	20.63	21.63	22.06
4H	2H	21.59	22.84	21.99	23.19	23.57	18.81	20.06	19.21	20.41	20.79
	3H	23.12	24.15	23.53	24.55	24.96	20.13	21.16	20.54	21.56	21.96
	4H	23.74	24.67	24.17	25.08	25.52	20.66	21.59	21.09	22.00	22.44
	6H	24.22	25.03	24.68	25.47	25.93	21.13	21.93	21.58	22.38	22.84
	8H	24.36	25.12	24.83	25.56	26.03	21.26	22.01	21.72	22.46	22.93
	12H	24.45	25.12	24.93	25.60	26.07	21.31	21.98	21.79	22.46	22.93
8H	4H	23.81	24.56	24.27	25.00	25.47	21.01	21.76	21.47	22.20	22.67
	6H	24.37	25.00	24.87	25.49	25.97	21.56	22.18	22.06	22.68	23.15
	8H	24.57	25.13	25.09	25.64	26.13	21.75	22.31	22.26	22.82	23.31
	12H	24.70	25.20	25.21	25.69	26.26	21.84	22.33	22.35	22.82	23.39
12H	4H	23.79	24.46	24.27	24.94	25.41	21.05	21.72	21.53	22.20	22.67
	6H	24.36	24.92	24.88	25.43	25.92	21.62	22.18	22.14	22.69	23.18
	8H	24.60	25.09	25.11	25.59	26.15	21.86	22.35	22.37	22.84	23.41