

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845274

Luminaire Tested: **SQ4P-PW1-0U-125D-B40-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P564826)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PW1-0U-125D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 1250 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

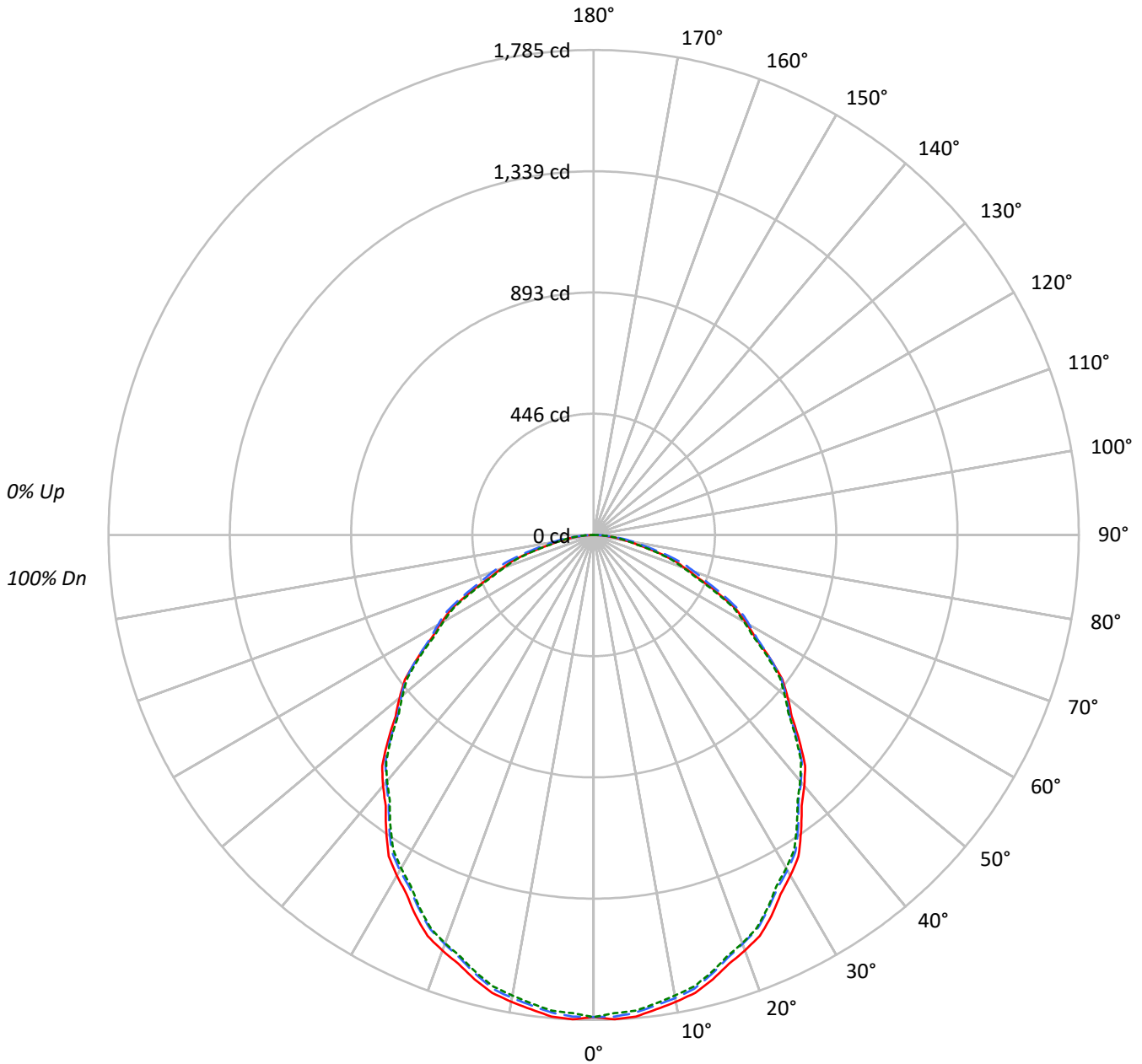
Lumens per Lamp: N/A  
Luminaire Lumens: 4514.9 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 45.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 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									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71																			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60																			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52																			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40																			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35																			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31																			
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28																			
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26																			

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

	0°	45°	90°
0°	16372	16372	16372
5°	16479	16348	16276
10°	16346	16214	16126
15°	16173	15993	15934
20°	15979	15733	15704
25°	15757	15471	15421
30°	15424	15192	15091
35°	14986	14773	14686
40°	14519	14291	14237
45°	13953	13771	13708
50°	13376	13264	13172
55°	12749	12749	12550
60°	11976	12204	11771
65°	10955	11503	10684
70°	9655	10585	9409
75°	8252	9471	8021
80°	6402	7975	6487
85°	4139	6129	5452



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.1	3.7
10°-20°	471.8	10.4
20°-30°	699.8	15.5
30°-40°	818.8	18.1
40°-50°	815.2	18.1
50°-60°	703.9	15.6
60°-70°	506.7	11.2
70°-80°	265.7	5.9
80°-90°	65.9	1.5
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°	1338.6	29.6
0°-40°	2157.5	47.8
0°-60°	3676.6	81.4
0°-90°	4514.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4514.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1779	1759	1765	1760	1757	169
15°	1693	1672	1674	1671	1668	477
25°	1548	1522	1520	1510	1515	712
35°	1330	1312	1312	1299	1304	832
45°	1069	1060	1055	1052	1051	825
55°	793	791	793	782	780	707
65°	502	517	527	506	489	497
75°	232	253	266	248	225	248
85°	39	51	58	55	52	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1774.5	1774.5	1774.5	1774.5	1774.5
2.5°	1784.6	1769.8	1774.5	1770.7	1762.0
5°	1779.3	1759.3	1765.2	1760.4	1757.4
7.5°	1761.2	1742.9	1746.9	1742.1	1740.1
10°	1744.8	1726.4	1730.7	1724.5	1721.3
12.5°	1726.2	1706.5	1710.8	1704.3	1702.7
15°	1693.2	1671.7	1674.4	1671.1	1668.2
17.5°	1655.1	1633.5	1633.7	1628.9	1628.0
20°	1627.5	1604.6	1602.4	1596.2	1599.5
22.5°	1597.6	1573.4	1571.2	1562.6	1566.9
25°	1547.8	1521.9	1519.7	1510.3	1514.8
27.5°	1490.3	1464.7	1464.7	1451.6	1456.4
30°	1447.8	1423.3	1426.0	1410.3	1416.5
32.5°	1402.7	1380.6	1382.0	1366.7	1372.9
35°	1330.5	1312.2	1311.6	1299.3	1303.9
37.5°	1256.7	1240.5	1237.8	1230.8	1231.9
40°	1205.5	1191.8	1186.6	1182.1	1182.1
42.5°	1151.5	1139.2	1134.1	1130.6	1129.4
45°	1069.4	1060.3	1055.4	1052.1	1050.6
47.5°	988.0	979.6	975.4	973.1	971.6
50°	931.9	925.7	924.1	919.3	917.7
52.5°	875.6	871.9	870.2	864.3	862.7
55°	792.6	791.2	792.6	781.8	780.2
57.5°	706.4	708.8	713.9	699.1	695.3
60°	649.0	654.9	661.4	644.1	637.9
62.5°	590.0	599.9	608.8	588.9	580.3
65°	501.8	517.2	526.9	506.1	489.4
67.5°	416.9	435.8	447.4	425.3	406.1
70°	357.9	379.5	392.4	370.0	348.8
72.5°	306.7	330.6	341.2	319.9	298.6
75°	231.5	252.8	265.7	248.0	225.0
77.5°	164.2	184.3	195.1	179.8	160.7
80°	120.5	141.8	150.1	137.2	122.1
82.5°	85.5	103.2	108.9	101.1	90.5
85°	39.1	51.2	57.9	54.8	51.5
87.5°	10.0	18.6	23.7	23.7	25.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)