

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

(formerly Eaton)

Brand: CORELITE

Report Number: P561922

Luminaire Tested: **SQ4-PR1-075U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561922  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-075U-125D-92765-1D-UNV-STD-W-4 (3500K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8244.1 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

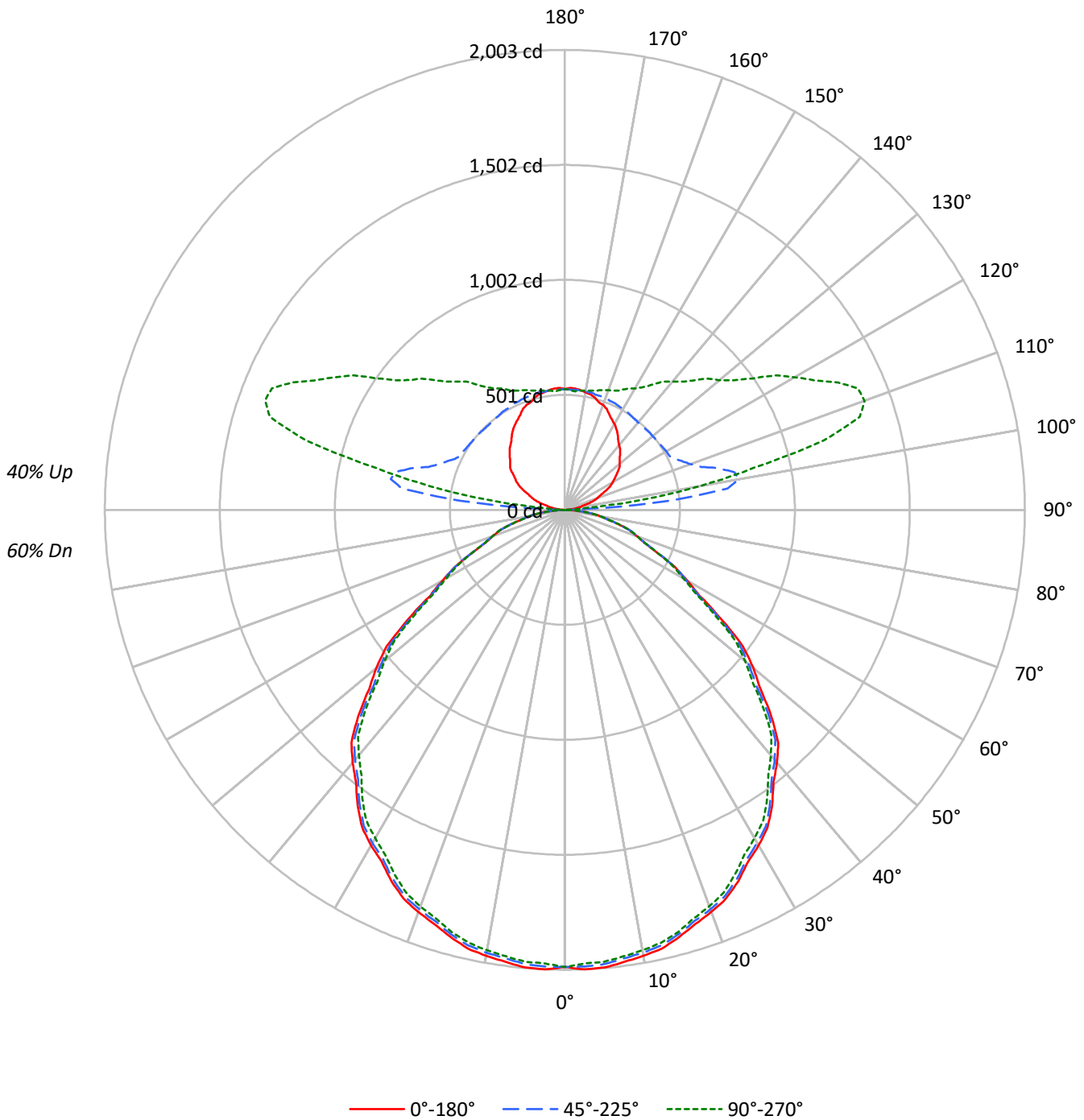
Input Watts (W): 79.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	66	66	66	60	
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56	56	56	56	52	
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	48	48	48	44	
3	84	75	67	61	78	70	64	58	62	57	52	54	50	47	46	44	41	41	41	41	37	
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36	36	36	36	32	
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	31	31	31	28	
6	65	53	45	39	61	50	43	38	45	39	34	39	34	31	34	31	28	28	28	28	25	
7	60	48	40	35	56	45	38	33	40	35	30	36	31	27	31	28	25	25	25	25	22	
8	56	44	36	31	53	41	34	29	37	31	27	33	28	25	29	25	22	22	22	22	20	
9	52	40	33	27	49	38	31	26	34	28	24	30	25	22	27	23	20	20	20	20	18	
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	18	18	18	16	

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

	0°	45°	90°
0°	18368	18368	18368
5°	18533	18390	18294
10°	18474	18345	18249
15°	18393	18278	18180
20°	18300	18183	18048
25°	18171	18049	17839
30°	17976	17848	17592
35°	17710	17556	17305
40°	17306	17120	16811
45°	16601	16310	15974
50°	15358	14989	14694
55°	13404	13102	12825
60°	11295	11201	10979
65°	9769	9809	9732
70°	8975	9021	9021
75°	8620	8620	8680
80°	8108	8198	8108
85°	6531	7262	7262



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.3	2.3
10°-20°	538.6	6.5
20°-30°	812.4	9.9
30°-40°	968.0	11.7
40°-50°	954.4	11.6
50°-60°	729.4	8.8
60°-70°	451.4	5.5
70°-80°	256.4	3.1
80°-90°	78.0	0.9
90°-100°	239.7	2.9
100°-110°	682.0	8.3
110°-120°	653.4	7.9
120°-130°	517.2	6.3
130°-140°	415.1	5.0
140°-150°	325.0	3.9
150°-160°	237.8	2.9
160°-170°	147.3	1.8
170°-180°	50.0	0.6
0°-30°	1539.3	18.7
0°-40°	2507.3	30.4
0°-60°	4191.0	50.8
0°-90°	4976.7	60.4
90°-120°	1575.1	19.1
90°-150°	2832.3	34.4
90°-180°	3267.0	39.6
0°-180°	8244.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1991	1991	1991	1991	1991	
5°	2001	1979	1986	1979	1975	190
15°	1926	1906	1914	1907	1903	543
25°	1785	1763	1773	1754	1752	821
35°	1572	1554	1559	1538	1536	981
45°	1272	1256	1250	1228	1224	975
55°	833	820	814	801	797	747
65°	448	444	449	446	446	453
75°	242	242	242	244	244	255
85°	62	65	69	69	69	72
90°	0	0	0	0	0	4
95°	26	103	464	161	99	30
105°	106	161	695	1228	1167	112
115°	197	238	527	1116	1311	194
125°	278	308	503	835	998	249
135°	340	368	497	705	797	262
145°	401	422	501	610	665	250
155°	458	469	513	552	574	212
165°	506	508	519	530	538	142
175°	530	527	525	522	518	50
180°	526	526	526	526	526	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1990.8	1990.8	1990.8	1990.8	1990.8
2.5°	2003.1	1985.7	1990.8	1986.4	1977.1
5°	2001.1	1979.3	1985.6	1978.7	1975.3
7.5°	1985.6	1964.2	1970.5	1963.6	1961.6
10°	1971.9	1951.8	1958.2	1951.3	1947.9
12.5°	1956.8	1935.4	1943.1	1934.8	1931.4
15°	1925.6	1905.5	1913.6	1906.7	1903.3
17.5°	1891.3	1869.9	1877.9	1870.0	1865.6
20°	1863.9	1843.8	1851.9	1839.8	1838.2
22.5°	1833.7	1813.6	1821.7	1805.6	1805.2
25°	1785.0	1763.2	1773.0	1754.1	1752.4
27.5°	1727.1	1706.9	1715.0	1695.8	1693.8
30°	1687.3	1667.2	1675.3	1654.6	1651.3
32.5°	1642.0	1623.2	1630.0	1609.4	1607.4
35°	1572.4	1553.9	1558.7	1538.1	1536.4
37.5°	1493.2	1476.4	1479.1	1456.4	1454.8
40°	1436.9	1420.2	1421.5	1397.4	1395.8
42.5°	1375.2	1358.4	1357.0	1333.0	1331.3
45°	1272.3	1255.5	1250.0	1227.7	1224.3
47.5°	1155.0	1138.3	1127.9	1109.7	1107.4
50°	1070.0	1053.2	1044.3	1028.7	1023.7
52.5°	978.1	961.3	953.7	939.5	934.5
55°	833.3	819.9	814.5	800.7	797.3
57.5°	695.8	686.8	685.2	671.8	670.4
60°	612.1	607.1	607.0	595.0	595.0
62.5°	540.8	537.1	539.8	531.9	530.5
65°	447.5	444.2	449.3	445.8	445.8
67.5°	373.8	373.8	376.9	375.5	375.5
70°	332.7	332.7	334.4	334.4	334.4
72.5°	295.6	294.3	298.7	298.7	297.3
75°	241.8	241.8	241.8	243.5	243.5
77.5°	188.3	188.6	190.0	189.6	188.3
80°	152.6	154.3	154.3	152.6	152.6
82.5°	116.9	118.6	118.7	118.3	116.9
85°	61.7	65.1	68.6	68.6	68.6
87.5°	17.8	23.2	27.4	27.4	26.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.0	42.4	98.4	28.6	21.6
95°	26.0	103.2	464.0	160.6	99.0
97.5°	47.8	120.9	714.6	511.3	350.4
100°	63.0	131.4	769.0	778.9	600.0
102.5°	79.8	142.8	757.0	997.0	840.8
105°	106.0	160.8	695.0	1227.6	1167.0
107.5°	132.6	181.7	622.6	1292.6	1346.6
110°	151.0	197.0	581.0	1267.8	1389.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	168.6	212.2	553.0	1208.9	1381.8
115°	197.0	238.1	527.0	1116.4	1311.0
117.5°	222.0	260.5	511.6	1015.3	1221.4
120°	242.0	274.3	510.0	957.5	1155.0
122.5°	258.0	290.3	506.0	906.8	1090.2
125°	278.0	308.3	503.0	834.7	998.0
127.5°	299.8	328.2	501.4	791.7	926.2
130°	311.0	339.4	499.0	761.7	879.0
132.5°	323.0	350.6	499.0	738.3	846.2
135°	340.0	368.4	497.0	705.1	797.0
137.5°	356.0	383.6	496.8	677.0	756.4
140°	368.0	396.4	496.0	653.7	730.0
142.5°	381.6	405.3	498.4	635.2	703.6
145°	401.0	421.5	501.0	610.2	665.0
147.5°	417.6	437.5	505.4	585.1	632.4
150°	432.0	445.7	507.0	576.8	610.0
152.5°	443.2	457.7	508.6	565.5	596.4
155°	458.0	468.8	513.0	551.5	574.0
157.5°	476.4	482.9	514.0	545.2	561.2
160°	486.0	490.9	518.0	540.3	554.0
162.5°	491.6	497.3	518.8	536.2	546.8
165°	506.0	508.0	519.0	530.2	538.0
167.5°	515.8	514.0	523.6	528.7	531.8
170°	519.0	518.0	522.0	523.1	527.0
172.5°	526.2	522.9	524.4	521.5	524.6
175°	530.0	527.1	525.0	521.9	518.0
177.5°	531.6	526.9	524.4	521.2	522.0
180°	526.0	526.0	526.0	526.0	526.0

(END OF REPORT)