

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: P562728

Luminaire Tested: **SQ4-PC3-075U-075D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562728  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PC3-075U-075D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

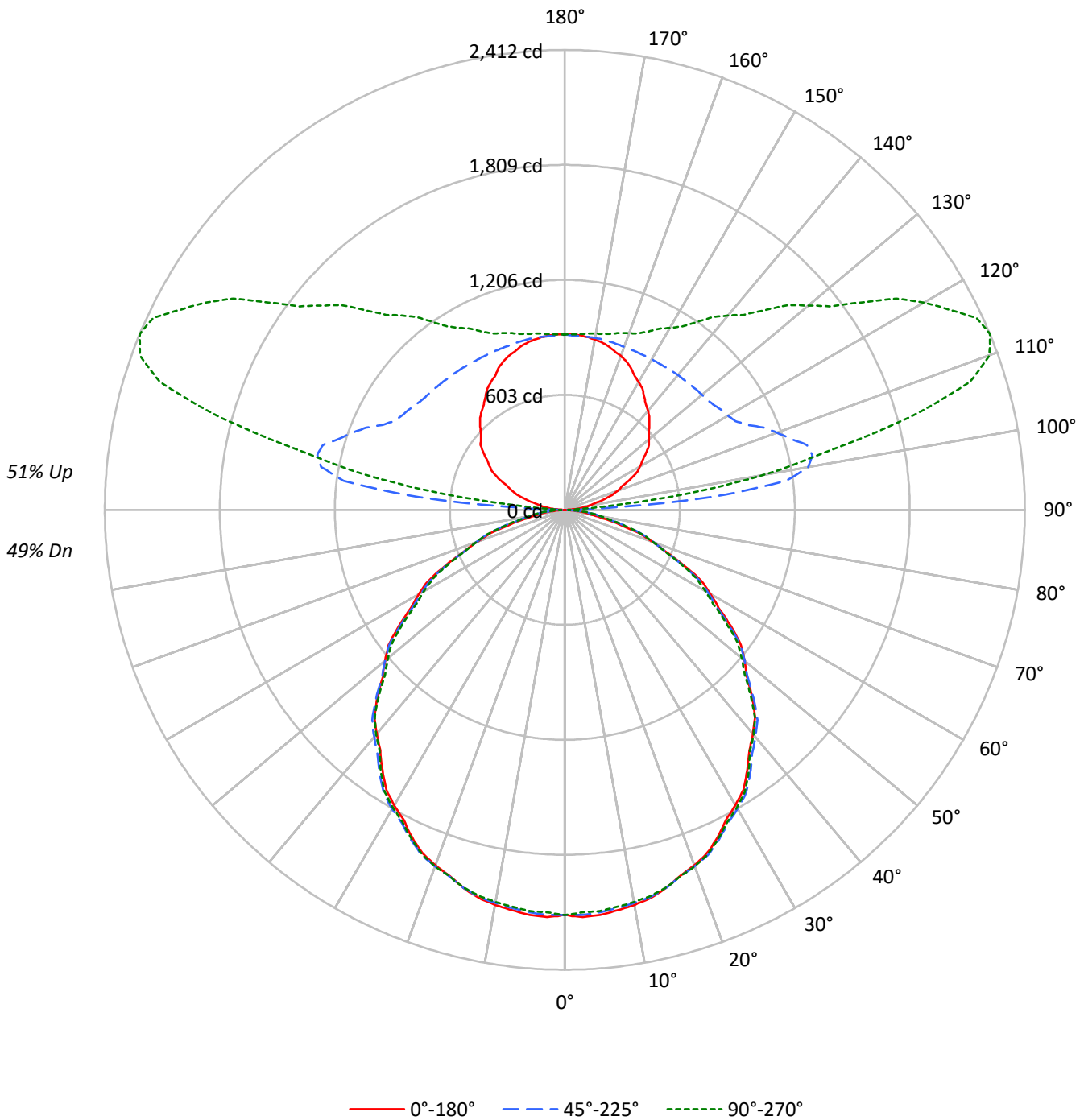
Lumens per Lamp: N/A  
Luminaire Lumens: 11791.0 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 91  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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

	0°	45°	90°
0°	9806	9806	9806
5°	9879	9816	9779
10°	9855	9809	9782
15°	9804	9804	9794
20°	9739	9768	9768
25°	9647	9717	9687
30°	9530	9645	9603
35°	9388	9532	9466
40°	9233	9363	9268
45°	9065	9129	8988
50°	8828	8828	8687
55°	8548	8437	8311
60°	8135	7971	7844
65°	7519	7369	7305
70°	6583	6636	6610
75°	5297	5859	5893
80°	3764	4968	5018
85°	2292	4166	4166



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.2	1.7
10°-20°	577.3	4.9
20°-30°	874.2	7.4
30°-40°	1048.1	8.9
40°-50°	1068.7	9.1
50°-60°	932.9	7.9
60°-70°	667.9	5.7
70°-80°	344.0	2.9
80°-90°	89.3	0.8
90°-100°	433.5	3.7
100°-110°	1192.6	10.1
110°-120°	1231.0	10.4
120°-130°	986.3	8.4
130°-140°	774.7	6.6
140°-150°	593.7	5.0
150°-160°	426.8	3.6
160°-170°	261.0	2.2
170°-180°	88.0	0.7
0°-30°	1652.7	14.0
0°-40°	2700.7	22.9
0°-60°	4702.3	39.9
0°-90°	5803.4	49.2
90°-120°	2857.1	24.2
90°-150°	5211.7	44.2
90°-180°	5988.0	50.8
0°-180°	11791.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2126	2126	2126	2126	2126	
5°	2133	2112	2120	2114	2112	203
15°	2053	2035	2053	2053	2051	579
25°	1895	1882	1909	1903	1903	872
35°	1667	1663	1693	1681	1681	1043
45°	1390	1386	1399	1382	1378	1070
55°	1063	1049	1049	1033	1033	947
65°	689	673	675	669	669	681
75°	297	311	329	331	331	321
85°	43	66	79	81	79	59
90°	2	8	14	18	18	6
95°	64	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	377	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	697	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1031	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2125.6	2125.6	2125.6	2125.6	2125.6
2.5°	2138.2	2119.7	2125.6	2120.7	2113.0
5°	2133.4	2112.3	2119.7	2113.7	2111.8
7.5°	2118.1	2096.9	2106.7	2102.7	2100.8
10°	2103.9	2082.8	2094.1	2090.1	2088.2
12.5°	2085.0	2065.4	2078.3	2074.4	2074.0
15°	2052.8	2035.4	2052.8	2052.7	2050.8
17.5°	2012.2	1996.4	2015.0	2016.1	2015.0
20°	1983.9	1966.5	1989.8	1987.8	1989.8
22.5°	1949.2	1935.0	1959.9	1954.8	1956.7
25°	1895.3	1881.8	1909.1	1903.2	1903.2
27.5°	1831.5	1821.9	1851.6	1845.3	1845.3
30°	1789.0	1779.4	1810.7	1802.8	1802.8
32.5°	1741.8	1735.2	1765.0	1755.6	1755.6
35°	1667.0	1663.2	1692.6	1680.8	1680.8
37.5°	1589.9	1586.4	1613.1	1598.8	1594.2
40°	1533.2	1531.2	1554.8	1539.1	1539.1
42.5°	1476.5	1474.6	1495.0	1476.1	1476.1
45°	1389.5	1385.6	1399.3	1381.5	1377.7
47.5°	1294.6	1290.8	1299.4	1280.0	1278.1
50°	1230.1	1226.2	1230.1	1212.3	1210.4
52.5°	1163.9	1157.0	1157.7	1139.9	1139.5
55°	1062.8	1049.3	1049.0	1033.3	1033.3
57.5°	955.7	938.0	939.6	926.2	924.2
60°	881.7	862.5	864.0	852.2	850.2
62.5°	809.3	787.0	791.6	778.2	777.8
65°	688.8	673.4	675.1	669.2	669.2
67.5°	573.1	558.9	569.2	564.4	564.1
70°	488.1	478.5	492.0	492.0	490.1
72.5°	409.4	409.0	425.9	425.9	427.1
75°	297.2	310.7	328.7	330.6	330.6
77.5°	198.4	222.2	242.1	242.9	242.5
80°	141.7	168.6	187.0	190.9	188.9
82.5°	96.0	124.5	139.7	143.6	141.7
85°	43.3	66.4	78.7	80.6	78.7
87.5°	13.0	28.0	34.2	34.9	31.9
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.9	76.7	63.0
95°	64.5	236.6	766.6	327.8	209.2
97.5°	105.2	262.4	1169.8	901.3	635.9
100°	134.9	278.3	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.5	1402.5
105°	213.2	327.9	1314.1	2001.4	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.4	2370.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.4	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.6	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.5	1747.9	2061.9
125°	520.2	592.8	956.3	1617.7	1894.9
127.5°	556.2	625.4	944.9	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.7	696.6	928.9	1308.3	1480.3
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.6	737.8	923.0	1201.7	1329.8
142.5°	697.3	752.0	919.9	1163.7	1273.4
145°	725.5	775.2	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.8	1071.2	1140.1
150°	774.4	812.6	911.3	1047.4	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.3	1001.9	1030.6
157.5°	842.8	864.6	909.3	981.3	1001.2
160°	858.5	875.7	909.3	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.1
165°	887.8	899.3	913.2	950.5	956.3
167.5°	899.5	908.3	915.2	941.8	943.3
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.6	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)