

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: P562939

Luminaire Tested: **SQ4-PC3-100U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562939  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-100D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

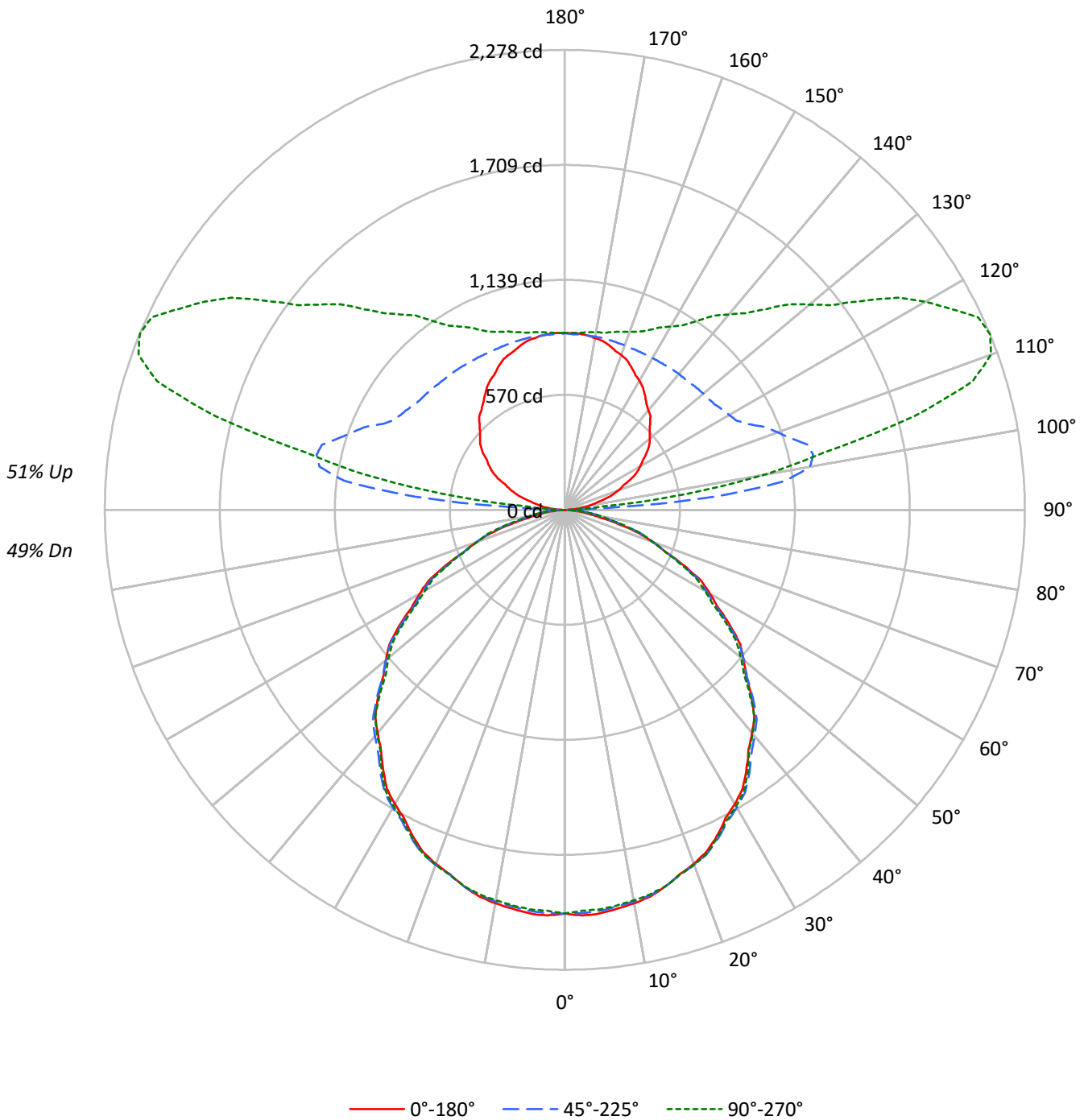
Lumens per Lamp: N/A  
Luminaire Lumens: 11144.9 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 92.9  
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47				41	
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39				35	
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33				29	
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	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	57	47	40	34	40	34	30	34	29	26	28	24	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	38	32	27	33	28	24	28	24	20	23	20	17				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°	12297	12297	12297
5°	12391	12310	12265
10°	12360	12302	12268
15°	12295	12295	12283
20°	12215	12251	12251
25°	12099	12187	12149
30°	11952	12096	12043
35°	11774	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11071	11071	10894
55°	10720	10581	10422
60°	10203	9998	9838
65°	9430	9242	9160
70°	8256	8323	8291
75°	6642	7348	7391
80°	4722	6231	6294
85°	2872	5222	5222



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.2	1.7
10°-20°	543.0	4.9
20°-30°	822.3	7.4
30°-40°	985.8	8.8
40°-50°	1005.2	9.0
50°-60°	877.5	7.9
60°-70°	628.2	5.6
70°-80°	323.6	2.9
80°-90°	83.6	0.8
90°-100°	409.9	3.7
100°-110°	1131.5	10.2
110°-120°	1166.9	10.5
120°-130°	937.7	8.4
130°-140°	736.9	6.6
140°-150°	565.2	5.1
150°-160°	406.2	3.6
160°-170°	248.4	2.2
170°-180°	83.8	0.8
0°-30°	1554.5	13.9
0°-40°	2540.3	22.8
0°-60°	4423.0	39.7
0°-90°	5458.4	49.0
90°-120°	2708.2	24.3
90°-150°	4948.1	44.4
90°-180°	5686.0	51.0
0°-180°	11144.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	2007	1987	1994	1988	1986	190
15°	1931	1915	1931	1931	1929	544
25°	1783	1770	1796	1790	1790	820
35°	1568	1564	1592	1581	1581	981
45°	1307	1303	1316	1300	1296	1006
55°	1000	987	987	972	972	891
65°	648	634	635	629	629	641
75°	280	292	309	311	311	302
85°	41	62	74	76	74	55
90°	3	6	11	13	14	6
95°	60	222	744	306	199	64
105°	202	311	1245	1900	1790	215
115°	361	437	1003	1985	2257	355
125°	496	564	909	1538	1805	441
135°	596	661	884	1246	1404	462
145°	692	740	872	1060	1141	433
155°	780	806	865	952	982	359
165°	844	855	870	903	910	238
175°	875	876	871	884	881	83
180°	875	875	875	875	875	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1999.3	1999.3	1999.3	1999.3	1999.3
2.5°	2011.2	1993.8	1999.3	1994.7	1987.5
5°	2006.8	1986.8	1993.8	1988.2	1986.4
7.5°	1992.3	1972.4	1981.6	1977.8	1976.0
10°	1979.0	1959.1	1969.7	1966.0	1964.2
12.5°	1961.2	1942.7	1954.9	1951.2	1950.8
15°	1930.8	1914.6	1930.8	1930.8	1929.0
17.5°	1892.7	1877.9	1895.3	1896.4	1895.3
20°	1866.1	1849.8	1871.6	1869.8	1871.6
22.5°	1833.5	1820.1	1843.5	1838.7	1840.5
25°	1782.7	1770.1	1795.7	1790.2	1790.2
27.5°	1722.8	1713.7	1741.7	1735.7	1735.7
30°	1682.8	1673.7	1703.1	1695.7	1695.7
32.5°	1638.4	1632.2	1660.2	1651.3	1651.3
35°	1568.0	1564.4	1592.1	1581.0	1581.0
37.5°	1495.4	1492.2	1517.3	1503.9	1499.5
40°	1442.1	1440.3	1462.5	1447.7	1447.7
42.5°	1388.8	1387.0	1406.2	1388.4	1388.4
45°	1307.0	1303.4	1316.2	1299.5	1295.9
47.5°	1217.7	1214.1	1222.2	1204.0	1202.2
50°	1157.0	1153.4	1157.0	1140.3	1138.5
52.5°	1094.8	1088.3	1088.9	1072.2	1071.9
55°	999.7	987.0	986.7	971.9	971.9
57.5°	899.0	882.3	883.8	871.2	869.3
60°	829.4	811.3	812.7	801.5	799.7
62.5°	761.2	740.2	744.6	732.0	731.6
65°	647.9	633.5	635.0	629.4	629.4
67.5°	539.1	525.7	535.4	530.9	530.6
70°	459.1	450.1	462.8	462.8	461.0
72.5°	385.1	384.7	400.6	400.6	401.7
75°	279.5	292.2	309.2	311.0	311.0
77.5°	186.6	209.1	227.7	228.4	228.1
80°	133.3	158.6	175.9	179.5	177.7
82.5°	90.3	117.1	131.4	135.1	133.3
85°	40.7	62.4	74.0	75.9	74.0
87.5°	12.4	26.0	31.9	32.1	29.5
90°	2.8	5.5	11.2	12.6	14.0
92.5°	25.2	104.6	187.1	68.3	53.2
95°	60.2	221.8	743.6	305.6	198.8
97.5°	99.7	248.4	1101.5	848.0	614.2
100°	128.8	264.4	1233.7	1242.4	1009.6
102.5°	156.8	282.5	1259.4	1535.0	1314.3
105°	201.6	311.2	1244.9	1900.5	1789.6
107.5°	249.3	346.7	1175.4	2076.7	2117.2
110°	282.9	370.5	1121.6	2114.6	2246.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	313.1	397.4	1071.2	2084.7	2278.5
115°	361.3	436.6	1002.6	1984.8	2257.3
117.5°	403.3	478.3	957.5	1844.2	2154.2
120°	431.3	505.2	939.6	1749.1	2061.2
122.5°	458.2	528.8	925.0	1660.2	1955.9
125°	495.7	564.2	908.8	1538.0	1805.0
127.5°	527.6	596.1	899.3	1434.6	1664.9
130°	548.9	617.4	894.8	1371.4	1580.9
132.5°	569.1	634.2	890.3	1318.3	1508.1
135°	596.5	660.9	883.6	1245.7	1404.5
137.5°	627.3	685.9	880.2	1184.6	1320.2
140°	644.1	701.6	878.0	1143.9	1263.1
142.5°	663.2	716.3	875.7	1107.8	1212.6
145°	691.7	739.7	872.4	1060.5	1141.2
147.5°	719.2	761.1	869.3	1020.6	1083.3
150°	739.4	773.6	868.2	996.8	1047.4
152.5°	755.0	787.1	867.1	976.4	1018.3
155°	780.0	806.0	865.4	951.5	981.6
157.5°	802.9	822.9	865.7	933.3	953.9
160°	816.4	834.2	866.8	923.1	938.2
162.5°	827.6	843.2	867.9	914.1	925.9
165°	844.4	855.3	869.6	903.3	910.2
167.5°	857.3	863.8	871.0	896.8	899.0
170°	864.0	869.5	871.0	893.4	893.4
172.5°	869.6	872.9	871.0	888.9	887.8
175°	875.2	876.5	871.0	883.5	880.8
177.5°	877.4	876.3	870.7	878.5	876.3
180°	875.2	875.2	875.2	875.2	875.2

(END OF REPORT)