

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: P563071

Luminaire Tested: **SQ4-PC3-125U-125D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563071  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-125D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

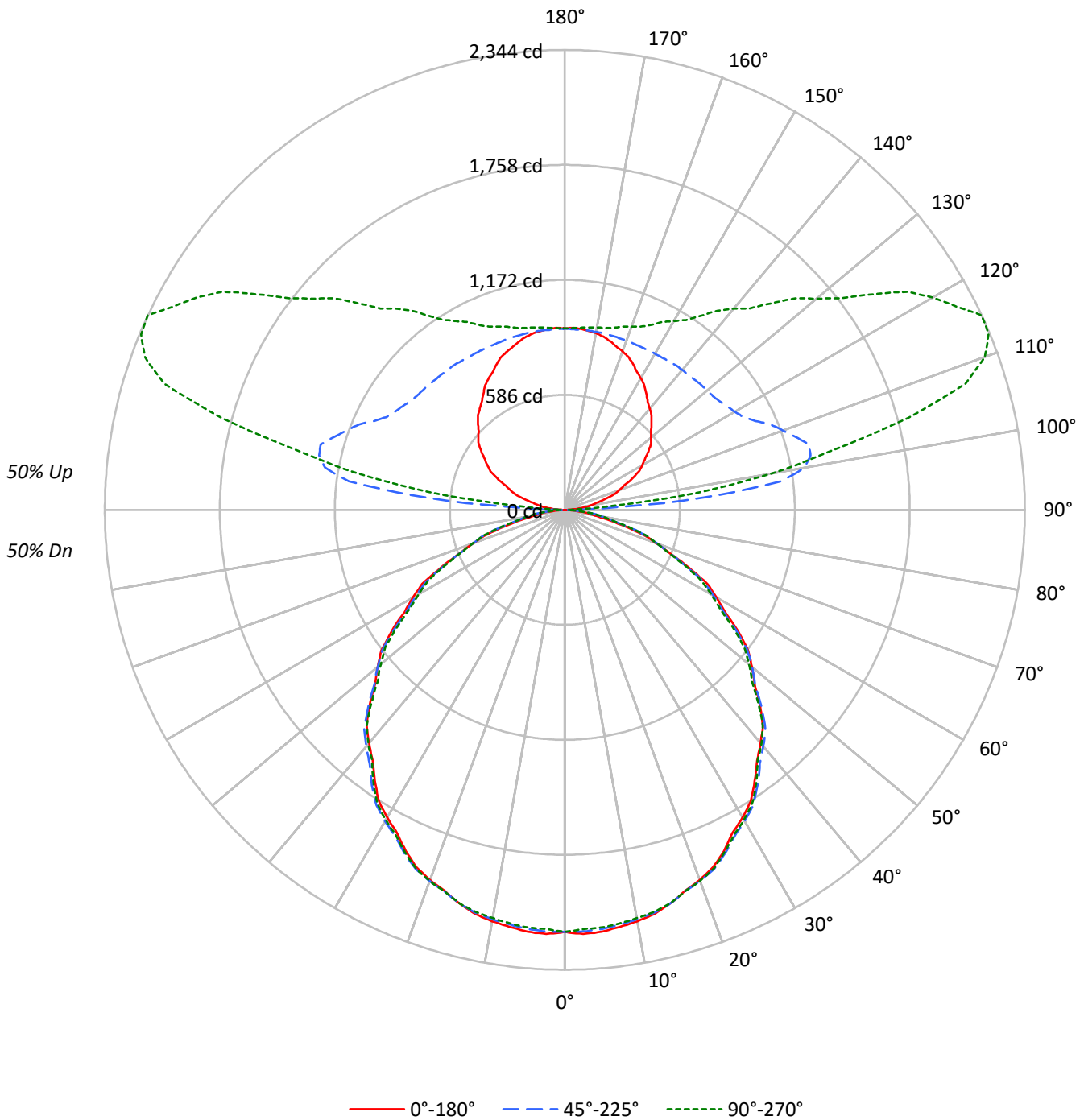
Lumens per Lamp: N/A  
Luminaire Lumens: 11840.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 117.2  
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	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	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	22	19	22	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°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13235	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13070
30°	12858	13014	12957
35°	12666	12861	12772
40°	12457	12633	12506
45°	12231	12318	12128
50°	11911	11911	11721
55°	11533	11384	11213
60°	10977	10755	10584
65°	10146	9942	9856
70°	8882	8954	8918
75°	7146	7904	7952
80°	5079	6702	6773
85°	3091	5625	5625



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.6	1.7
10°-20°	584.2	4.9
20°-30°	884.7	7.5
30°-40°	1060.6	9.0
40°-50°	1081.5	9.1
50°-60°	944.0	8.0
60°-70°	675.9	5.7
70°-80°	348.1	2.9
80°-90°	90.2	0.8
90°-100°	432.4	3.7
100°-110°	1164.8	9.8
110°-120°	1222.5	10.3
120°-130°	992.0	8.4
130°-140°	778.0	6.6
140°-150°	597.3	5.0
150°-160°	429.5	3.6
160°-170°	262.4	2.2
170°-180°	88.5	0.7
0°-30°	1672.4	14.1
0°-40°	2733.0	23.1
0°-60°	4758.5	40.2
0°-90°	5872.7	49.6
90°-120°	2819.7	23.8
90°-150°	5187.0	43.8
90°-180°	5967.0	50.4
0°-180°	11840.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2151	2151	2151	2151	2151	
5°	2159	2138	2145	2139	2137	205
15°	2077	2060	2077	2077	2075	586
25°	1918	1904	1932	1926	1926	883
35°	1687	1683	1713	1701	1701	1055
45°	1406	1402	1416	1398	1394	1082
55°	1076	1062	1062	1046	1046	959
65°	697	682	683	677	677	689
75°	301	314	333	335	335	325
85°	44	67	80	82	80	60
90°	2	7	14	15	15	6
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2151.0	2151.0	2151.0	2151.0	2151.0
2.5°	2163.7	2145.1	2151.0	2146.0	2138.3
5°	2159.0	2137.5	2145.0	2139.0	2137.1
7.5°	2143.4	2122.0	2131.9	2127.9	2125.9
10°	2129.1	2107.7	2119.1	2115.1	2113.2
12.5°	2110.0	2090.1	2103.2	2099.2	2098.8
15°	2077.3	2059.8	2077.3	2077.3	2075.3
17.5°	2036.3	2020.3	2039.1	2040.2	2039.1
20°	2007.6	1990.1	2013.6	2011.6	2013.6
22.5°	1972.5	1958.1	1983.3	1978.2	1980.1
25°	1918.0	1904.3	1931.9	1925.9	1925.9
27.5°	1853.4	1843.7	1873.8	1867.4	1867.4
30°	1810.4	1800.7	1832.3	1824.4	1824.4
32.5°	1762.6	1756.0	1786.1	1776.6	1776.6
35°	1686.9	1683.0	1712.8	1700.9	1700.9
37.5°	1608.9	1605.4	1632.4	1617.9	1613.3
40°	1551.5	1549.6	1573.4	1557.5	1557.5
42.5°	1494.2	1492.2	1512.9	1493.8	1493.8
45°	1406.1	1402.2	1416.1	1398.1	1394.2
47.5°	1310.1	1306.2	1314.9	1295.3	1293.4
50°	1244.8	1240.9	1244.8	1226.8	1224.9
52.5°	1177.9	1170.9	1171.5	1153.6	1153.2
55°	1075.5	1061.9	1061.6	1045.6	1045.6
57.5°	967.2	949.2	950.8	937.2	935.3
60°	892.3	872.8	874.3	862.3	860.4
62.5°	819.0	796.4	801.0	787.5	787.1
65°	697.1	681.5	683.1	677.2	677.2
67.5°	580.0	565.6	576.0	571.2	570.8
70°	493.9	484.2	497.9	497.9	495.9
72.5°	414.3	413.9	431.0	431.0	432.2
75°	300.7	314.4	332.6	334.6	334.6
77.5°	200.8	224.9	245.0	245.8	245.4
80°	143.4	170.7	189.2	193.1	191.2
82.5°	97.2	126.0	141.4	145.3	143.4
85°	43.8	67.2	79.7	81.6	79.7
87.5°	13.2	28.2	34.7	34.9	31.7
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)