

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: P563116

Luminaire Tested: **SQ4-PC3-150U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563116  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-075D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

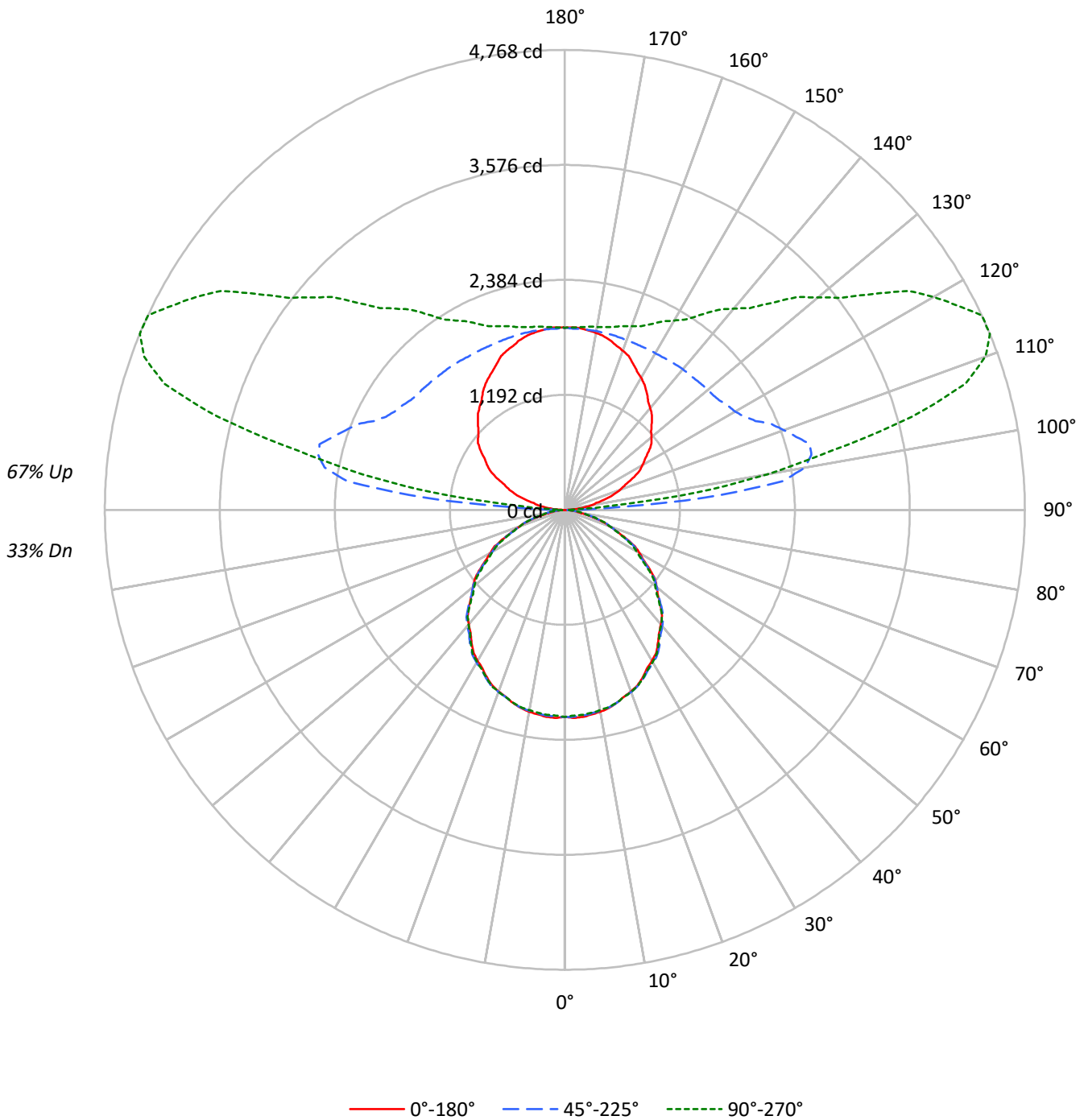
Lumens per Lamp: N/A  
Luminaire Lumens: 18032.6 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 131.1  
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



TEST NUMBER: P563116  
CATALOG NUMBER: SQ4-PC3-150U-075D-840-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P563116

CATALOG NUMBER: SQ4-PC3-150U-075D-840-1D-UNV-STD-W-8

**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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9877
10°	9955	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9784
30°	9625	9742	9699
35°	9482	9628	9561
40°	9326	9458	9362
45°	9156	9221	9079
50°	8917	8917	8774
55°	8634	8522	8394
60°	8217	8052	7923
65°	7595	7443	7378
70°	6649	6703	6676
75°	5351	5917	5953
80°	3802	5018	5069
85°	2313	4208	4208



TEST NUMBER: P563116

CATALOG NUMBER: SQ4-PC3-150U-075D-840-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.2	1.1
10°-20°	583.1	3.2
20°-30°	883.0	4.9
30°-40°	1058.6	5.9
40°-50°	1079.4	6.0
50°-60°	942.3	5.2
60°-70°	674.6	3.7
70°-80°	347.5	1.9
80°-90°	91.8	0.5
90°-100°	877.2	4.9
100°-110°	2371.7	13.2
110°-120°	2493.5	13.8
120°-130°	2025.4	11.2
130°-140°	1588.7	8.8
140°-150°	1219.4	6.8
150°-160°	877.0	4.9
160°-170°	535.7	3.0
170°-180°	180.6	1.0
0°-30°	1669.3	9.3
0°-40°	2727.9	15.1
0°-60°	4749.6	26.3
0°-90°	5863.4	32.5
90°-120°	5742.4	31.8
90°-150°	10575.8	58.6
90°-180°	12169.0	67.5
0°-180°	18032.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2147	2147	2147	2147	2147	
5°	2155	2134	2141	2135	2133	205
15°	2073	2056	2073	2073	2071	585
25°	1914	1901	1928	1922	1922	881
35°	1684	1680	1710	1698	1698	1053
45°	1404	1400	1413	1395	1392	1080
55°	1074	1060	1060	1044	1044	957
65°	696	680	682	676	676	688
75°	300	314	332	334	334	324
85°	44	67	80	82	80	60
90°	4	12	26	28	26	11
95°	136	478	1459	755	449	142
105°	441	681	2631	3881	3722	464
115°	776	949	2182	4224	4768	766
125°	1063	1218	1967	3319	3899	947
135°	1274	1425	1914	2680	3033	984
145°	1481	1592	1888	2294	2468	927
155°	1672	1738	1871	2058	2125	771
165°	1820	1838	1879	1953	1963	513
175°	1890	1888	1881	1906	1902	179
180°	1888	1888	1888	1888	1888	

TEST NUMBER: P563116

CATALOG NUMBER: SQ4-PC3-150U-075D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2147.0	2147.0	2147.0	2147.0	2147.0
2.5°	2159.7	2141.0	2147.0	2142.0	2134.2
5°	2154.9	2133.5	2141.0	2135.0	2133.0
7.5°	2139.4	2118.0	2127.9	2123.9	2121.9
10°	2125.1	2103.7	2115.2	2111.1	2109.2
12.5°	2106.0	2086.2	2099.3	2095.3	2094.9
15°	2073.4	2055.9	2073.4	2073.4	2071.4
17.5°	2032.5	2016.5	2035.2	2036.4	2035.2
20°	2003.8	1986.3	2009.8	2007.9	2009.8
22.5°	1968.8	1954.5	1979.6	1974.5	1976.4
25°	1914.4	1900.8	1928.3	1922.3	1922.3
27.5°	1850.0	1840.2	1870.2	1863.9	1863.9
30°	1807.0	1797.3	1828.9	1820.9	1820.9
32.5°	1759.3	1752.7	1782.8	1773.2	1773.2
35°	1683.8	1679.9	1709.6	1697.7	1697.7
37.5°	1605.8	1602.4	1629.3	1614.9	1610.2
40°	1548.6	1546.7	1570.5	1554.6	1554.6
42.5°	1491.3	1489.4	1510.0	1490.9	1490.9
45°	1403.5	1399.6	1413.4	1395.4	1391.6
47.5°	1307.7	1303.8	1312.4	1292.9	1291.0
50°	1242.5	1238.6	1242.5	1224.5	1222.6
52.5°	1175.7	1168.7	1169.3	1151.4	1151.0
55°	1073.5	1059.9	1059.6	1043.7	1043.7
57.5°	965.3	947.5	949.0	935.5	933.5
60°	890.6	871.2	872.7	860.7	858.8
62.5°	817.4	794.9	799.5	786.0	785.6
65°	695.8	680.2	681.9	675.9	675.9
67.5°	578.9	564.5	574.9	570.1	569.7
70°	493.0	483.3	497.0	496.9	495.0
72.5°	413.5	413.1	430.2	430.2	431.4
75°	300.2	313.8	332.0	334.0	334.0
77.5°	200.4	224.5	244.5	245.3	244.9
80°	143.1	170.3	188.9	192.8	190.8
82.5°	97.0	125.8	141.1	145.1	143.1
85°	43.7	67.1	79.5	81.5	79.5
87.5°	13.5	29.1	37.1	37.4	33.9
90°	4.1	12.0	26.4	28.4	26.4
92.5°	57.7	210.3	414.9	180.1	130.4
95°	136.1	477.8	1458.8	754.9	449.0
97.5°	218.6	548.0	2273.9	1881.8	1382.0
100°	280.4	576.4	2527.4	2635.8	2131.3
102.5°	337.3	615.8	2616.8	3207.6	2830.2
105°	440.9	681.3	2631.1	3881.0	3722.1
107.5°	536.8	756.1	2516.1	4301.1	4354.0
110°	611.5	810.2	2413.7	4413.9	4638.4



TEST NUMBER: P563116

CATALOG NUMBER: SQ4-PC3-150U-075D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	678.2	864.1	2319.4	4391.4	4768.4
115°	776.1	948.9	2182.1	4224.1	4768.4
117.5°	872.0	1034.1	2091.4	3968.5	4585.6
120°	930.5	1089.4	2037.8	3785.2	4414.9
122.5°	985.8	1141.5	2005.3	3588.6	4223.1
125°	1062.6	1217.5	1966.7	3318.8	3898.8
127.5°	1133.3	1285.5	1943.9	3098.6	3608.7
130°	1172.3	1329.2	1934.2	2962.5	3423.4
132.5°	1212.9	1368.3	1924.4	2839.8	3264.1
135°	1273.9	1424.9	1913.9	2679.7	3033.3
137.5°	1335.2	1477.9	1904.9	2549.8	2837.9
140°	1377.5	1510.6	1901.7	2466.2	2722.5
142.5°	1418.1	1543.3	1895.2	2390.7	2615.2
145°	1481.1	1592.4	1887.5	2293.7	2468.5
147.5°	1538.4	1636.9	1878.5	2205.8	2340.1
150°	1580.7	1668.1	1875.3	2158.1	2265.4
152.5°	1619.7	1696.0	1873.6	2113.8	2202.0
155°	1672.1	1737.7	1871.2	2057.6	2125.2
157.5°	1726.5	1772.2	1871.6	2018.5	2063.0
160°	1757.4	1795.2	1873.2	1993.8	2025.6
162.5°	1781.8	1813.2	1874.9	1974.1	1998.0
165°	1820.4	1838.3	1879.3	1952.7	1962.6
167.5°	1846.8	1859.1	1879.7	1934.3	1939.1
170°	1863.1	1869.0	1881.4	1926.1	1926.1
172.5°	1876.1	1877.3	1881.4	1916.3	1914.7
175°	1889.5	1887.5	1881.4	1905.7	1901.7
177.5°	1894.0	1889.2	1881.0	1897.1	1892.3
180°	1887.5	1887.5	1887.5	1887.5	1887.5

(END OF REPORT)