

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: P563092

Luminaire Tested: **SQ4-PC3-150U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563092  
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-050D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

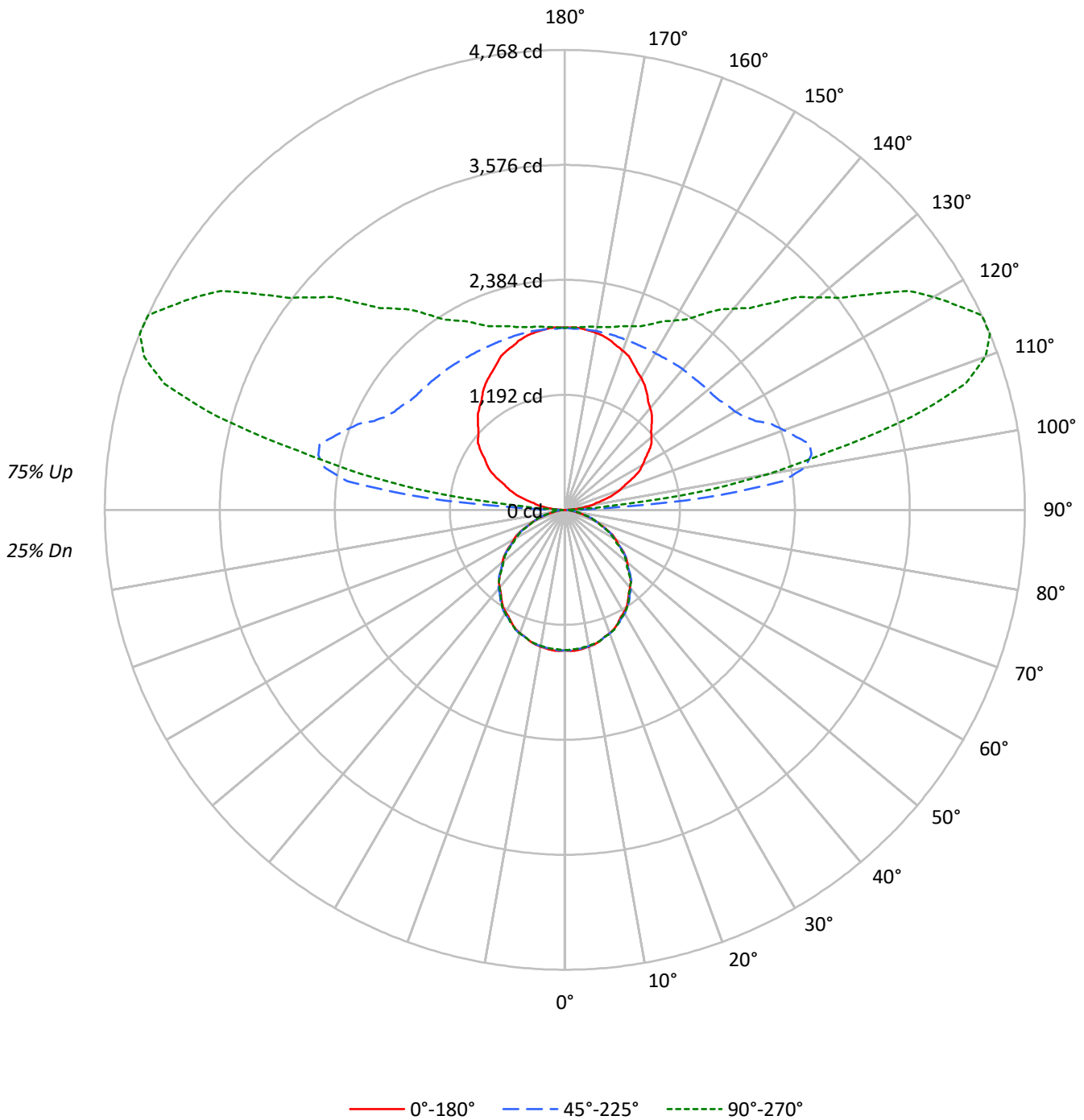
Lumens per Lamp: N/A  
Luminaire Lumens: 16148.6 lumens  
Efficiency: N/A  
Efficacy: 144.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 111.9  
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25				
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21				
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17				
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15				
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13				
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11				
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10				
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8				
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8				
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7				
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				

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

	0°	45°	90°
0°	6720	6720	6720
5°	6771	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6659	6639
30°	6531	6610	6581
35°	6433	6532	6486
40°	6327	6416	6351
45°	6212	6256	6159
50°	6050	6050	5953
55°	5857	5782	5695
60°	5574	5463	5376
65°	5153	5050	5006
70°	4512	4548	4529
75°	3631	4014	4039
80°	2580	3403	3440
85°	1572	2858	2858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	0.9
10°-20°	395.6	2.4
20°-30°	599.1	3.7
30°-40°	718.3	4.4
40°-50°	732.4	4.5
50°-60°	639.3	4.0
60°-70°	457.7	2.8
70°-80°	235.7	1.5
80°-90°	63.5	0.4
90°-100°	877.2	5.4
100°-110°	2371.7	14.7
110°-120°	2493.5	15.4
120°-130°	2025.4	12.5
130°-140°	1588.7	9.8
140°-150°	1219.4	7.6
150°-160°	877.0	5.4
160°-170°	535.7	3.3
170°-180°	180.6	1.1
0°-30°	1132.6	7.0
0°-40°	1850.8	11.5
0°-60°	3222.5	20.0
0°-90°	3979.5	24.6
90°-120°	5742.4	35.6
90°-150°	10575.8	65.5
90°-180°	12169.0	75.4
0°-180°	16148.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1462	1448	1453	1448	1447	139
15°	1407	1395	1407	1407	1405	397
25°	1299	1290	1308	1304	1304	598
35°	1142	1140	1160	1152	1152	714
45°	952	950	959	947	944	733
55°	728	719	719	708	708	649
65°	472	462	463	459	459	467
75°	204	213	225	227	227	220
85°	30	46	54	55	54	40
90°	4	12	26	28	26	10
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1456.7	1456.7	1456.7	1456.7	1456.7
2.5°	1465.3	1452.6	1456.7	1453.3	1448.0
5°	1462.1	1447.6	1452.6	1448.5	1447.2
7.5°	1451.5	1437.0	1443.7	1441.0	1439.7
10°	1441.8	1427.3	1435.1	1432.4	1431.0
12.5°	1428.9	1415.4	1424.3	1421.6	1421.3
15°	1406.8	1394.9	1406.8	1406.7	1405.4
17.5°	1379.0	1368.2	1380.9	1381.7	1380.9
20°	1359.6	1347.7	1363.6	1362.3	1363.6
22.5°	1335.8	1326.1	1343.1	1339.6	1340.9
25°	1298.9	1289.6	1308.3	1304.3	1304.3
27.5°	1255.2	1248.6	1268.9	1264.6	1264.6
30°	1226.0	1219.4	1240.9	1235.5	1235.5
32.5°	1193.7	1189.2	1209.6	1203.1	1203.1
35°	1142.4	1139.8	1159.9	1151.8	1151.8
37.5°	1089.5	1087.2	1105.5	1095.7	1092.5
40°	1050.7	1049.4	1065.5	1054.7	1054.7
42.5°	1011.8	1010.5	1024.5	1011.6	1011.6
45°	952.2	949.6	959.0	946.8	944.1
47.5°	887.2	884.6	890.5	877.2	875.9
50°	843.0	840.3	843.0	830.8	829.5
52.5°	797.7	792.9	793.3	781.2	780.9
55°	728.3	719.1	718.9	708.1	708.1
57.5°	655.0	642.8	643.9	634.7	633.4
60°	604.2	591.1	592.1	584.0	582.7
62.5°	554.6	539.3	542.5	533.3	533.0
65°	472.1	461.5	462.6	458.6	458.6
67.5°	392.8	383.0	390.1	386.8	386.6
70°	334.5	327.9	337.2	337.2	335.8
72.5°	280.5	280.3	291.9	291.9	292.7
75°	203.7	212.9	225.2	226.6	226.6
77.5°	136.0	152.3	165.9	166.4	166.2
80°	97.1	115.6	128.1	130.8	129.5
82.5°	65.8	85.3	95.8	98.4	97.1
85°	29.7	45.5	54.0	55.3	54.0
87.5°	9.4	20.5	26.9	27.2	24.7
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



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**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)