

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: P561767

Luminaire Tested: **SQ4-PC3-150U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561767  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-125D-92765-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

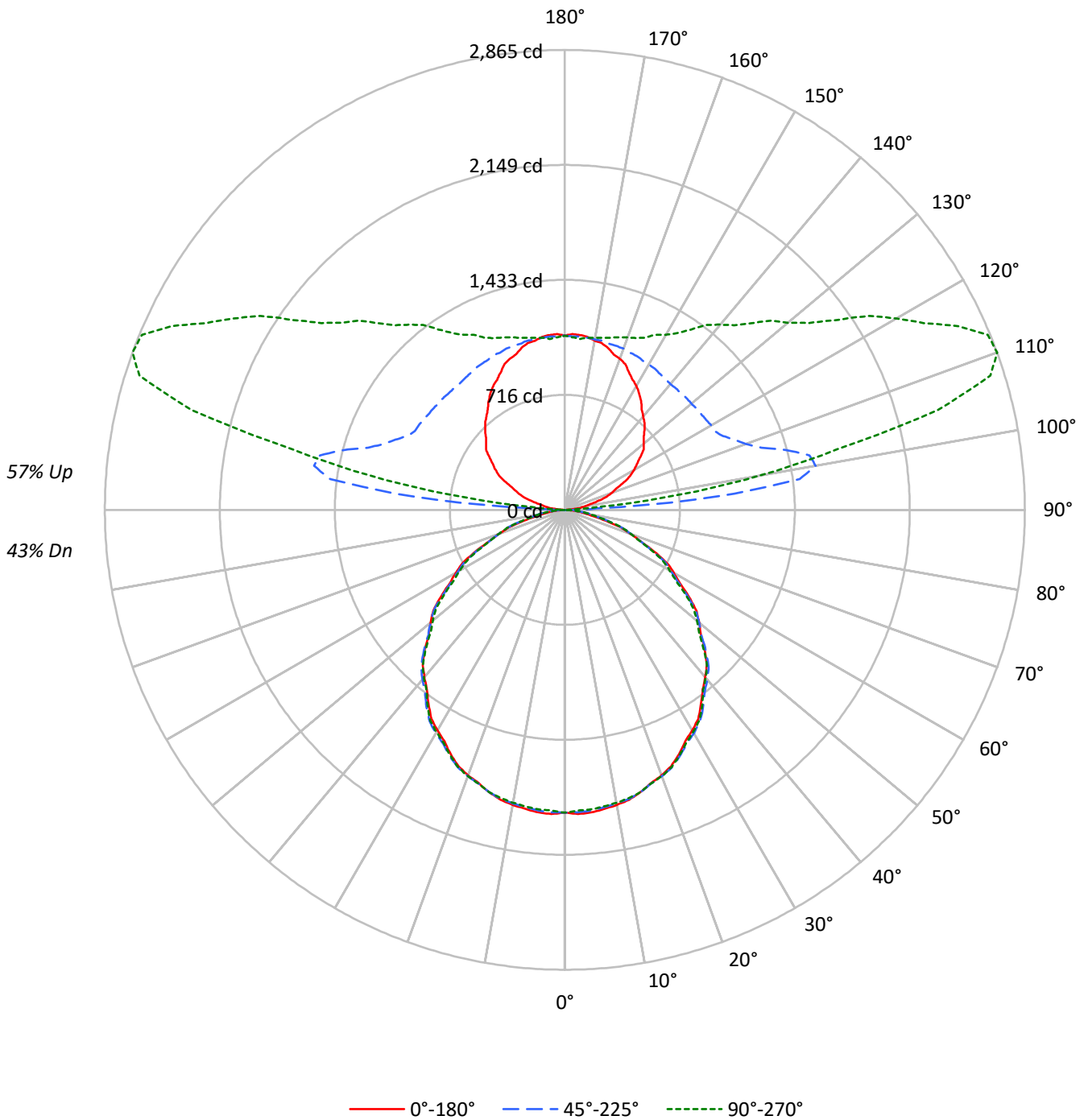
Lumens per Lamp: N/A  
Luminaire Lumens: 11886.2 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 107  
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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	68	65	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	45	44	41	38	34	32	30	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	32	27	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

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

	0°	45°	90°
0°	17399	17399	17399
5°	17529	17416	17351
10°	17487	17405	17356
15°	17395	17395	17378
20°	17280	17332	17332
25°	17118	17242	17189
30°	16909	17114	17039
35°	16657	16913	16796
40°	16382	16613	16445
45°	16084	16199	15948
50°	15664	15664	15413
55°	15167	14971	14745
60°	14433	14144	13919
65°	13341	13075	12961
70°	11680	11775	11729
75°	9400	10395	10455
80°	6679	8815	8905
85°	4065	7389	7389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.5	1.5
10°-20°	512.2	4.3
20°-30°	775.6	6.5
30°-40°	929.8	7.8
40°-50°	948.1	8.0
50°-60°	827.6	7.0
60°-70°	592.5	5.0
70°-80°	305.2	2.6
80°-90°	77.2	0.6
90°-100°	494.4	4.2
100°-110°	1406.7	11.8
110°-120°	1347.8	11.3
120°-130°	1066.7	9.0
130°-140°	856.2	7.2
140°-150°	670.3	5.6
150°-160°	490.5	4.1
160°-170°	303.8	2.6
170°-180°	103.1	0.9
0°-30°	1466.2	12.3
0°-40°	2396.0	20.2
0°-60°	4171.8	35.1
0°-90°	5146.6	43.3
90°-120°	3249.0	27.3
90°-150°	5842.2	49.2
90°-180°	6740.0	56.7
0°-180°	11886.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1893	1874	1880	1875	1874	180
15°	1821	1806	1821	1821	1819	513
25°	1682	1670	1694	1688	1688	774
35°	1479	1476	1502	1491	1491	925
45°	1233	1229	1242	1226	1222	949
55°	943	931	931	917	917	841
65°	611	598	599	594	594	604
75°	264	276	292	293	293	285
85°	38	59	70	72	70	52
90°	0	0	0	0	0	4
95°	54	213	957	331	204	61
105°	219	332	1434	2532	2407	231
115°	406	491	1087	2303	2704	400
125°	573	636	1038	1722	2059	513
135°	701	760	1025	1454	1644	541
145°	827	870	1033	1259	1372	517
155°	945	967	1058	1138	1184	437
165°	1044	1048	1070	1094	1110	294
175°	1093	1087	1083	1076	1068	104
180°	1085	1085	1085	1085	1085	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1885.8	1885.8	1885.8	1885.8	1885.8
2.5°	1896.9	1880.5	1885.8	1881.4	1874.6
5°	1892.7	1874.0	1880.5	1875.2	1873.5
7.5°	1879.1	1860.3	1869.0	1865.5	1863.8
10°	1866.6	1847.8	1857.8	1854.3	1852.6
12.5°	1849.8	1832.4	1843.9	1840.4	1840.0
15°	1821.2	1805.8	1821.2	1821.1	1819.4
17.5°	1785.2	1771.2	1787.6	1788.7	1787.6
20°	1760.0	1744.7	1765.3	1763.6	1765.3
22.5°	1729.3	1716.7	1738.7	1734.2	1736.0
25°	1681.5	1669.5	1693.7	1688.5	1688.5
27.5°	1624.9	1616.4	1642.7	1637.1	1637.1
30°	1587.2	1578.6	1606.4	1599.4	1599.4
32.5°	1545.3	1539.5	1565.9	1557.5	1557.5
35°	1478.9	1475.5	1501.6	1491.2	1491.2
37.5°	1410.5	1407.4	1431.1	1418.4	1414.3
40°	1360.2	1358.5	1379.4	1365.4	1365.4
42.5°	1309.9	1308.2	1326.3	1309.6	1309.6
45°	1232.7	1229.3	1241.5	1225.7	1222.3
47.5°	1148.6	1145.2	1152.8	1135.6	1133.9
50°	1091.3	1087.9	1091.3	1075.5	1073.8
52.5°	1032.6	1026.5	1027.0	1011.3	1011.0
55°	942.9	930.9	930.7	916.7	916.7
57.5°	847.9	832.2	833.6	821.7	820.0
60°	782.2	765.2	766.5	756.0	754.3
62.5°	718.0	698.2	702.3	690.4	690.0
65°	611.1	597.5	598.9	593.7	593.7
67.5°	508.5	495.8	505.0	500.8	500.4
70°	433.0	424.5	436.5	436.5	434.8
72.5°	363.2	362.8	377.9	377.9	378.9
75°	263.7	275.6	291.6	293.3	293.3
77.5°	176.0	197.2	214.8	215.5	215.1
80°	125.7	149.6	165.9	169.3	167.6
82.5°	85.2	110.5	124.0	127.4	125.7
85°	38.4	58.9	69.8	71.6	69.8
87.5°	11.2	23.5	27.9	27.9	25.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.5	87.5	203.0	59.1	44.6
95°	53.6	213.0	957.1	331.3	204.2
97.5°	98.6	249.5	1474.0	1054.7	722.8
100°	129.9	271.1	1586.2	1606.7	1237.6
102.5°	164.6	294.5	1561.5	2056.6	1734.3
105°	218.6	331.6	1433.6	2532.2	2407.2
107.5°	273.5	374.8	1284.2	2666.3	2777.6
110°	311.5	406.3	1198.4	2615.0	2865.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	347.8	437.7	1140.7	2493.7	2850.2
115°	406.4	491.1	1087.0	2302.8	2704.2
117.5°	457.9	537.4	1055.3	2094.2	2519.4
120°	499.2	565.7	1052.0	1975.0	2382.4
122.5°	532.2	598.7	1043.7	1870.4	2248.8
125°	573.4	636.0	1037.5	1721.8	2058.6
127.5°	618.4	676.9	1034.2	1632.9	1910.5
130°	641.5	700.0	1029.3	1571.1	1813.1
132.5°	666.3	723.1	1029.3	1522.8	1745.5
135°	701.3	759.8	1025.2	1454.4	1644.0
137.5°	734.3	791.2	1024.7	1396.5	1560.2
140°	759.1	817.6	1023.1	1348.5	1505.8
142.5°	787.1	835.9	1028.0	1310.1	1451.3
145°	827.1	869.5	1033.4	1258.7	1371.7
147.5°	861.4	902.5	1042.5	1206.8	1304.4
150°	891.1	919.3	1045.8	1189.7	1258.2
152.5°	914.2	944.0	1049.1	1166.5	1230.2
155°	944.7	966.9	1058.2	1137.6	1184.0
157.5°	982.7	996.0	1060.2	1124.5	1157.6
160°	1002.5	1012.6	1068.5	1114.5	1142.7
162.5°	1014.0	1025.7	1070.1	1106.1	1127.9
165°	1043.7	1047.8	1070.5	1093.6	1109.7
167.5°	1063.9	1060.3	1080.0	1090.5	1096.9
170°	1070.5	1068.5	1076.7	1079.0	1087.0
172.5°	1085.4	1078.5	1081.7	1075.6	1082.1
175°	1093.2	1087.2	1082.9	1076.5	1068.5
177.5°	1096.5	1086.8	1081.7	1075.1	1076.7
180°	1085.0	1085.0	1085.0	1085.0	1085.0

(END OF REPORT)