

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: P561764

Luminaire Tested: **SQ4-PC3-150U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561764  
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 (2700K)  
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 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

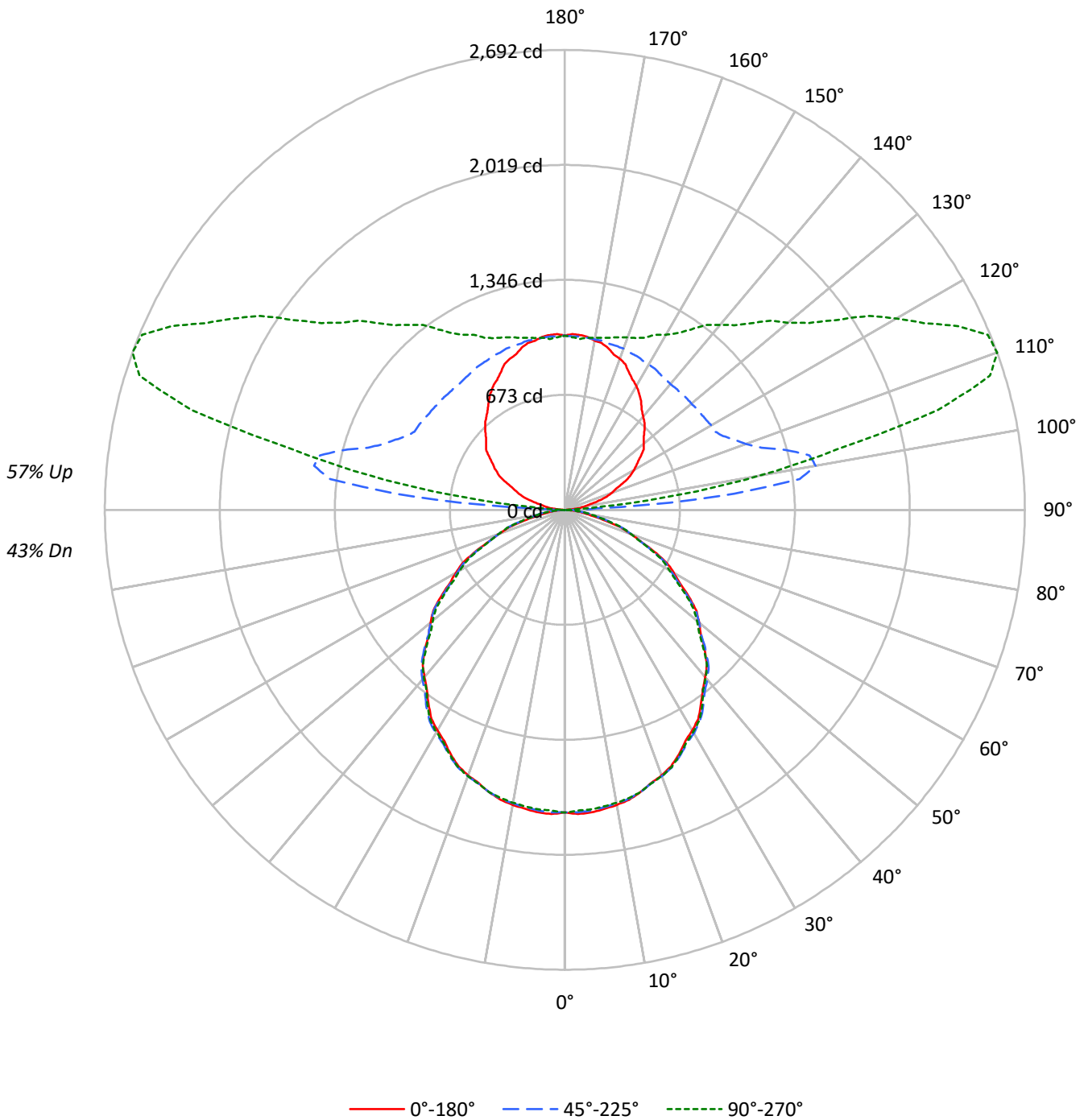
Lumens per Lamp: N/A  
Luminaire Lumens: 11167.6 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 106.6  
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°	16347	16347	16347
5°	16470	16363	16303
10°	16430	16353	16307
15°	16344	16344	16328
20°	16236	16285	16285
25°	16082	16199	16150
30°	15887	16079	16009
35°	15650	15891	15780
40°	15392	15609	15451
45°	15112	15219	14984
50°	14717	14717	14481
55°	14250	14065	13854
60°	13563	13289	13077
65°	12535	12284	12177
70°	10976	11063	11020
75°	8830	9767	9824
80°	6275	8278	8368
85°	3822	6944	6944



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.7	1.5
10°-20°	481.2	4.3
20°-30°	728.7	6.5
30°-40°	873.6	7.8
40°-50°	890.8	8.0
50°-60°	777.6	7.0
60°-70°	556.7	5.0
70°-80°	286.7	2.6
80°-90°	72.5	0.6
90°-100°	464.5	4.2
100°-110°	1321.7	11.8
110°-120°	1266.3	11.3
120°-130°	1002.2	9.0
130°-140°	804.5	7.2
140°-150°	629.8	5.6
150°-160°	460.8	4.1
160°-170°	285.4	2.6
170°-180°	96.9	0.9
0°-30°	1377.6	12.3
0°-40°	2251.2	20.2
0°-60°	3919.6	35.1
0°-90°	4835.5	43.3
90°-120°	3052.5	27.3
90°-150°	5489.0	49.2
90°-180°	6332.0	56.7
0°-180°	11167.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1778	1761	1767	1762	1760	169
15°	1711	1697	1711	1711	1709	482
25°	1580	1569	1591	1586	1586	727
35°	1390	1386	1411	1401	1401	869
45°	1158	1155	1166	1152	1148	892
55°	886	875	874	861	861	790
65°	574	561	563	558	558	568
75°	248	259	274	276	276	268
85°	36	55	66	67	66	49
90°	0	0	0	0	0	4
95°	50	200	899	311	192	58
105°	205	312	1347	2379	2262	217
115°	382	461	1021	2164	2541	376
125°	539	598	975	1618	1934	482
135°	659	714	963	1366	1545	508
145°	777	817	971	1183	1289	485
155°	888	908	994	1069	1112	410
165°	981	984	1006	1028	1043	276
175°	1027	1022	1018	1012	1004	97
180°	1019	1019	1019	1019	1019	

TEST NUMBER: P561764

CATALOG NUMBER: SQ4-PC3-150U-125D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1771.8	1771.8	1771.8	1771.8	1771.8
2.5°	1782.3	1766.9	1771.8	1767.7	1761.3
5°	1778.3	1760.7	1766.8	1761.9	1760.3
7.5°	1765.5	1747.9	1756.0	1752.7	1751.1
10°	1753.7	1736.1	1745.5	1742.2	1740.6
12.5°	1738.0	1721.6	1732.4	1729.1	1728.8
15°	1711.1	1696.6	1711.1	1711.0	1709.4
17.5°	1677.3	1664.1	1679.6	1680.5	1679.6
20°	1653.6	1639.2	1658.6	1657.0	1658.6
22.5°	1624.8	1612.9	1633.6	1629.4	1631.0
25°	1579.8	1568.6	1591.3	1586.4	1586.4
27.5°	1526.7	1518.7	1543.4	1538.2	1538.2
30°	1491.2	1483.2	1509.3	1502.7	1502.7
32.5°	1451.9	1446.4	1471.2	1463.3	1463.3
35°	1389.5	1386.3	1410.9	1401.0	1401.0
37.5°	1325.2	1322.3	1344.6	1332.7	1328.8
40°	1278.0	1276.4	1296.0	1282.9	1282.9
42.5°	1230.7	1229.1	1246.1	1230.4	1230.4
45°	1158.2	1155.0	1166.4	1151.6	1148.4
47.5°	1079.1	1075.9	1083.1	1067.0	1065.4
50°	1025.3	1022.1	1025.3	1010.5	1008.9
52.5°	970.2	964.4	965.0	950.2	949.9
55°	885.9	874.7	874.4	861.3	861.3
57.5°	796.6	781.9	783.2	772.0	770.4
60°	735.0	718.9	720.2	710.3	708.7
62.5°	674.6	656.0	659.8	648.7	648.3
65°	574.2	561.4	562.7	557.8	557.8
67.5°	477.7	465.9	474.4	470.5	470.2
70°	406.9	398.8	410.1	410.1	408.5
72.5°	341.2	340.9	355.0	355.0	356.0
75°	247.7	258.9	274.0	275.6	275.6
77.5°	165.4	185.3	201.8	202.4	202.1
80°	118.1	140.6	155.8	159.1	157.5
82.5°	80.1	103.8	116.5	119.7	118.1
85°	36.1	55.3	65.6	67.2	65.6
87.5°	10.5	22.0	26.2	26.2	23.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.5	82.2	190.7	55.5	41.9
95°	50.4	200.1	899.2	311.2	191.9
97.5°	92.6	234.4	1384.9	991.0	679.1
100°	122.1	254.7	1490.3	1509.6	1162.8
102.5°	154.7	276.7	1467.1	1932.3	1629.5
105°	205.4	311.5	1346.9	2379.1	2261.7
107.5°	257.0	352.1	1206.6	2505.1	2609.7
110°	292.6	381.7	1126.0	2456.9	2691.9

TEST NUMBER: P561764

CATALOG NUMBER: SQ4-PC3-150U-125D-92765-1D-UNV-STD-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	326.7	411.3	1071.7	2342.9	2677.9
115°	381.8	461.4	1021.3	2163.6	2540.7
117.5°	430.2	504.9	991.5	1967.6	2367.1
120°	469.0	531.5	988.4	1855.6	2238.4
122.5°	500.0	562.5	980.6	1757.3	2112.8
125°	538.8	597.5	974.8	1617.7	1934.1
127.5°	581.0	636.0	971.7	1534.2	1795.0
130°	602.7	657.7	967.1	1476.1	1703.5
132.5°	626.0	679.4	967.1	1430.7	1639.9
135°	658.9	713.9	963.2	1366.5	1544.6
137.5°	689.9	743.4	962.8	1312.0	1465.9
140°	713.2	768.1	961.3	1266.9	1414.7
142.5°	739.5	785.4	965.9	1230.9	1363.6
145°	777.1	816.9	970.9	1182.7	1288.8
147.5°	809.3	848.0	979.5	1133.9	1225.6
150°	837.2	863.7	982.6	1117.8	1182.2
152.5°	858.9	887.0	985.7	1095.9	1155.8
155°	887.6	908.5	994.2	1068.8	1112.4
157.5°	923.3	935.8	996.1	1056.5	1087.6
160°	941.9	951.3	1003.9	1047.1	1073.7
162.5°	952.7	963.7	1005.4	1039.2	1059.7
165°	980.6	984.4	1005.8	1027.5	1042.6
167.5°	999.6	996.2	1014.7	1024.6	1030.6
170°	1005.8	1003.9	1011.6	1013.7	1021.3
172.5°	1019.8	1013.3	1016.3	1010.6	1016.7
175°	1027.1	1021.5	1017.5	1011.5	1003.9
177.5°	1030.2	1021.1	1016.3	1010.1	1011.6
180°	1019.4	1019.4	1019.4	1019.4	1019.4

(END OF REPORT)