

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: P561771

Luminaire Tested: **SQ4-PC3-150U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561771  
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 (6500K)  
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 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12502.9 lumens  
Efficiency: N/A  
Efficacy: 117.7 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

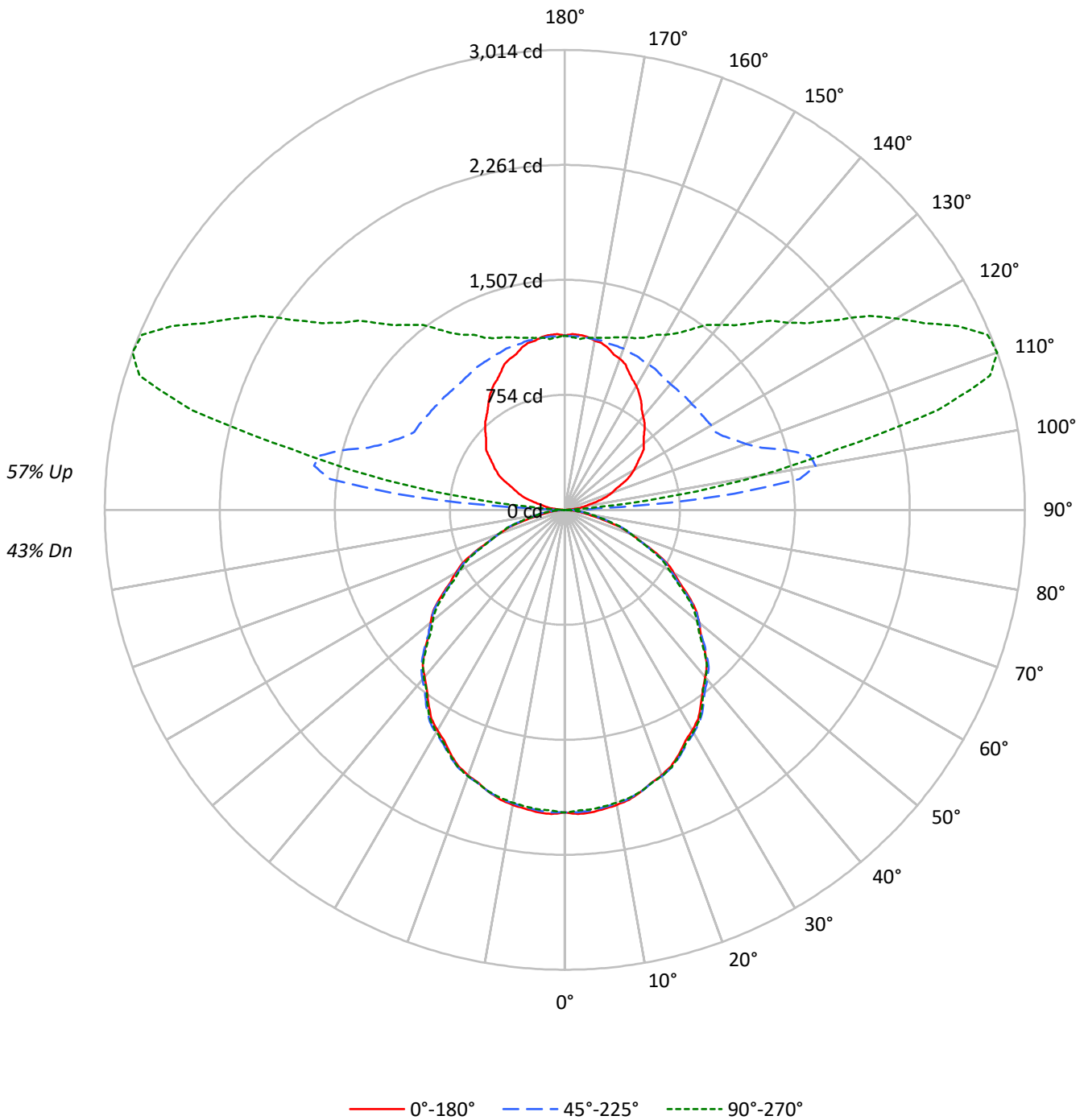
Input Watts (W): 106.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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°	18301	18301	18301
5°	18440	18320	18252
10°	18394	18308	18256
15°	18298	18298	18280
20°	18178	18232	18232
25°	18005	18137	18081
30°	17786	18001	17923
35°	17522	17790	17666
40°	17232	17476	17299
45°	16919	17039	16776
50°	16476	16476	16214
55°	15953	15746	15511
60°	15183	14878	14640
65°	14033	13754	13633
70°	12287	12387	12336
75°	9885	10933	11001
80°	7024	9271	9367
85°	4277	7781	7781



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.7	1.5
10°-20°	538.7	4.3
20°-30°	815.8	6.5
30°-40°	978.1	7.8
40°-50°	997.3	8.0
50°-60°	870.6	7.0
60°-70°	623.3	5.0
70°-80°	321.0	2.6
80°-90°	81.2	0.6
90°-100°	520.1	4.2
100°-110°	1479.7	11.8
110°-120°	1417.7	11.3
120°-130°	1122.1	9.0
130°-140°	900.6	7.2
140°-150°	705.1	5.6
150°-160°	515.9	4.1
160°-170°	319.6	2.6
170°-180°	108.4	0.9
0°-30°	1542.3	12.3
0°-40°	2520.4	20.2
0°-60°	4388.2	35.1
0°-90°	5413.7	43.3
90°-120°	3417.5	27.3
90°-150°	6145.3	49.2
90°-180°	7089.0	56.7
0°-180°	12502.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1991	1971	1978	1973	1971	189
15°	1916	1900	1916	1916	1914	540
25°	1769	1756	1782	1776	1776	814
35°	1556	1552	1580	1568	1568	973
45°	1297	1293	1306	1289	1286	998
55°	992	979	979	964	964	884
65°	643	628	630	624	624	636
75°	277	290	307	309	309	300
85°	40	62	74	75	74	55
90°	0	0	0	0	0	4
95°	56	224	1007	348	215	64
105°	230	349	1508	2664	2532	243
115°	427	516	1143	2422	2844	421
125°	603	669	1091	1811	2165	540
135°	738	799	1078	1530	1729	569
145°	870	915	1087	1324	1443	544
155°	994	1017	1113	1197	1245	459
165°	1098	1102	1126	1150	1167	309
175°	1150	1144	1139	1132	1124	109
180°	1141	1141	1141	1141	1141	

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CATALOG NUMBER: SQ4-PC3-150U-125D-92765-1D-UNV-STD-W-4 (6500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1983.6	1983.6	1983.6	1983.6	1983.6
2.5°	1995.4	1978.1	1983.6	1979.0	1971.9
5°	1991.0	1971.2	1978.1	1972.6	1970.8
7.5°	1976.6	1956.9	1966.0	1962.3	1960.5
10°	1963.4	1943.7	1954.2	1950.5	1948.7
12.5°	1945.8	1927.5	1939.5	1935.9	1935.5
15°	1915.7	1899.5	1915.7	1915.6	1913.8
17.5°	1877.8	1863.1	1880.4	1881.5	1880.4
20°	1851.4	1835.2	1856.9	1855.1	1856.9
22.5°	1819.0	1805.8	1829.0	1824.2	1826.0
25°	1768.7	1756.2	1781.6	1776.1	1776.1
27.5°	1709.2	1700.2	1727.9	1722.1	1722.1
30°	1669.5	1660.6	1689.7	1682.4	1682.4
32.5°	1625.5	1619.4	1647.1	1638.3	1638.3
35°	1555.7	1552.1	1579.5	1568.5	1568.5
37.5°	1483.7	1480.4	1505.3	1492.0	1487.7
40°	1430.8	1429.0	1451.0	1436.3	1436.3
42.5°	1377.9	1376.1	1395.1	1377.5	1377.5
45°	1296.7	1293.1	1305.9	1289.3	1285.7
47.5°	1208.2	1204.6	1212.6	1194.5	1192.7
50°	1147.9	1144.3	1147.9	1131.4	1129.6
52.5°	1086.2	1079.7	1080.3	1063.8	1063.4
55°	991.8	979.2	978.9	964.3	964.3
57.5°	891.9	875.4	876.8	864.3	862.5
60°	822.8	804.9	806.3	795.2	793.4
62.5°	755.2	734.4	738.7	726.2	725.9
65°	642.8	628.5	630.0	624.5	624.5
67.5°	534.8	521.6	531.2	526.8	526.4
70°	455.5	446.5	459.2	459.1	457.3
72.5°	382.0	381.7	397.5	397.5	398.6
75°	277.3	289.9	306.7	308.6	308.6
77.5°	185.1	207.4	225.9	226.6	226.3
80°	132.2	157.4	174.5	178.1	176.3
82.5°	89.6	116.2	130.4	134.0	132.2
85°	40.4	62.0	73.5	75.3	73.5
87.5°	11.8	24.7	29.4	29.3	26.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.4	92.0	213.5	62.1	46.9
95°	56.4	224.0	1006.8	348.5	214.8
97.5°	103.7	262.4	1550.5	1109.5	760.3
100°	136.7	285.2	1668.5	1690.1	1301.8
102.5°	173.1	309.8	1642.5	2163.3	1824.3
105°	230.0	348.8	1508.0	2663.6	2532.1
107.5°	287.7	394.2	1350.9	2804.6	2921.8
110°	327.6	427.3	1260.6	2750.7	3013.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	365.8	460.4	1199.9	2623.0	<i>2998.1</i>
115°	427.4	516.5	1143.4	2422.3	<i>2844.5</i>
117.5°	481.7	565.3	1110.0	2202.9	<i>2650.1</i>
120°	525.1	595.1	1106.6	2077.5	<i>2506.0</i>
122.5°	559.8	629.8	1097.9	1967.4	<i>2365.4</i>
125°	603.2	669.0	1091.4	1811.1	<i>2165.4</i>
127.5°	650.5	712.0	1087.9	1717.7	<i>2009.6</i>
130°	674.8	736.3	1082.7	1652.6	<i>1907.2</i>
132.5°	700.8	760.6	1082.7	1601.8	<i>1836.0</i>
135°	737.7	799.2	1078.4	1529.8	<i>1729.3</i>
137.5°	772.4	832.2	1077.9	1468.9	<i>1641.2</i>
140°	798.5	860.0	1076.2	1418.4	<i>1583.9</i>
142.5°	828.0	879.3	1081.4	1378.1	<i>1526.6</i>
145°	870.1	914.6	1087.0	1324.1	<i>1442.9</i>
147.5°	906.1	949.4	1096.6	1269.5	<i>1372.1</i>
150°	937.3	967.0	1100.1	1251.4	<i>1323.5</i>
152.5°	961.6	993.0	1103.5	1227.0	<i>1294.0</i>
155°	993.7	1017.1	1113.1	1196.6	<i>1245.4</i>
157.5°	1033.7	1047.7	1115.2	1182.9	<i>1217.7</i>
160°	1054.5	1065.1	1123.9	1172.3	<i>1202.0</i>
162.5°	1066.6	1078.9	1125.7	1163.5	<i>1186.4</i>
165°	1097.9	1102.1	1126.1	1150.3	<i>1167.3</i>
167.5°	1119.1	1115.3	1136.1	1147.1	<i>1153.9</i>
170°	1126.1	1124.0	1132.6	1135.0	<i>1143.4</i>
172.5°	1141.7	1134.5	1137.8	1131.4	<i>1138.2</i>
175°	1150.0	1143.6	1139.1	1132.4	<i>1123.9</i>
177.5°	1153.4	1143.2	1137.8	1130.9	<i>1132.6</i>
180°	1141.3	1141.3	1141.3	1141.3	<i>1141.3</i>

(END OF REPORT)