

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845225

Luminaire Tested: **SQ4P-PR1-150U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845225  
REPORT IS A COMBINATION OF REPORTS P700150 AND P700248  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PR1-150U-125D-B35-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

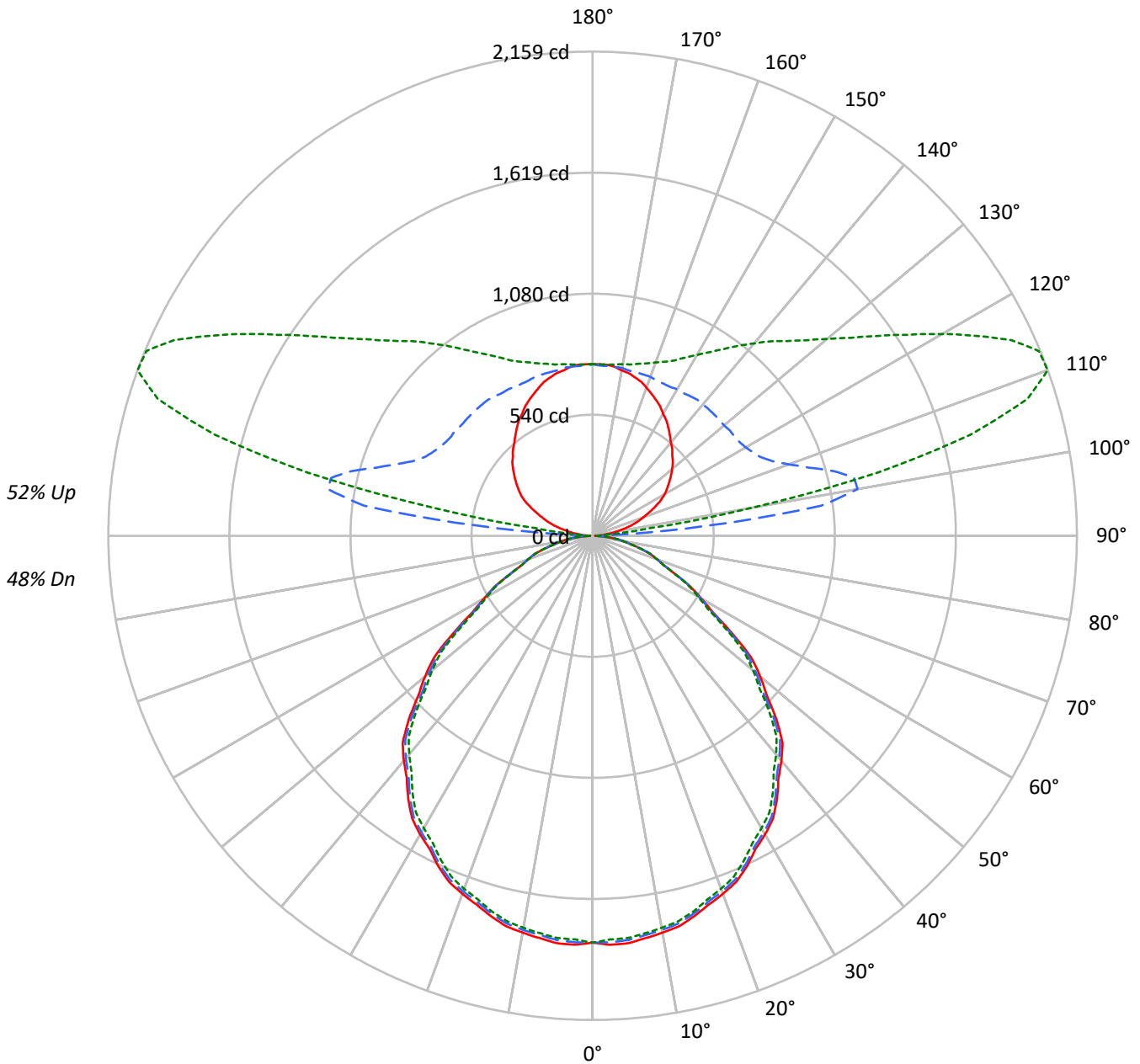
Lumens per Lamp: N/A  
Luminaire Lumens: 9504.3 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 88.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 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				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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48	48	48	48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41	41	41	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39	35	35	35	35
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34	30	30	30	30
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	26	26	26	26
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	22	22	22	22
6	63	51	43	38	58	48	41	35	41	35	31	34	30	27	28	25	23	20	20	20	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18	18	18	18
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18	16	16	16	16
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14	14	14	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13	13	13	13

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

	0°	45°	90°
0°	16739	16739	16739
5°	16891	16760	16673
10°	16835	16719	16631
15°	16764	16658	16567
20°	16678	16569	16449
25°	16561	16451	16258
30°	16381	16267	16034
35°	16141	15999	15771
40°	15770	15602	15320
45°	15132	14864	14559
50°	13996	13662	13390
55°	12215	11942	11691
60°	10295	10210	10005
65°	8905	8938	8868
70°	8176	8217	8217
75°	7857	7857	7910
80°	7385	7470	7385
85°	5960	6616	6616



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.6	1.8
10°-20°	490.9	5.2
20°-30°	740.4	7.8
30°-40°	882.2	9.3
40°-50°	869.8	9.2
50°-60°	664.7	7.0
60°-70°	411.3	4.3
70°-80°	233.6	2.5
80°-90°	72.9	0.8
90°-100°	304.6	3.2
100°-110°	1059.8	11.2
110°-120°	1026.6	10.8
120°-130°	805.3	8.5
130°-140°	637.4	6.7
140°-150°	491.9	5.2
150°-160°	352.6	3.7
160°-170°	215.7	2.3
170°-180°	73.0	0.8
0°-30°	1402.9	14.8
0°-40°	2285.1	24.0
0°-60°	3819.6	40.2
0°-90°	4537.4	47.7
90°-120°	2391.0	25.2
90°-150°	4325.6	45.5
90°-180°	4967.0	52.3
0°-180°	9504.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1824	1804	1810	1803	1800	173
15°	1755	1737	1744	1738	1734	495
25°	1627	1607	1616	1599	1597	749
35°	1433	1416	1420	1402	1400	894
45°	1160	1144	1139	1119	1116	888
55°	759	747	742	730	727	680
65°	408	405	409	406	406	413
75°	220	220	220	222	222	233
85°	56	59	62	62	62	65
90°	11	17	17	11	6	9
95°	51	177	514	131	80	54
105°	177	251	1114	1879	1748	186
115°	308	371	828	1748	2062	305
125°	417	514	771	1302	1554	373
135°	503	565	765	1085	1228	390
145°	588	628	760	937	1017	368
155°	668	691	748	834	862	308
165°	731	737	754	788	794	206
175°	765	765	760	771	765	72
180°	765	765	765	765	765	



TEST NUMBER: P845225

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1814.3	1814.3	1814.3	1814.3	1814.3
2.5°	1825.6	1809.7	1814.3	1810.5	1801.9
5°	1823.8	1803.8	1809.7	1803.2	1800.3
7.5°	1809.7	1790.1	1796.0	1789.5	1787.8
10°	1797.0	1778.7	1784.6	1778.4	1775.2
12.5°	1783.3	1763.9	1770.9	1763.4	1760.4
15°	1755.1	1736.7	1744.0	1737.7	1734.5
17.5°	1723.7	1704.1	1711.6	1704.4	1700.4
20°	1698.7	1680.4	1687.6	1676.9	1675.3
22.5°	1671.3	1652.9	1660.2	1645.7	1645.4
25°	1626.8	1606.9	1616.0	1598.8	1597.1
27.5°	1574.0	1555.7	1563.0	1545.4	1543.8
30°	1537.6	1519.3	1526.9	1508.0	1505.0
32.5°	1496.4	1479.5	1485.7	1466.8	1464.9
35°	1433.1	1416.2	1420.5	1401.9	1400.2
37.5°	1360.9	1345.5	1348.0	1327.2	1325.9
40°	1309.4	1294.3	1295.4	1273.6	1272.0
42.5°	1253.4	1238.1	1236.7	1214.9	1213.3
45°	1159.7	1144.3	1139.2	1118.7	1115.8
47.5°	1052.7	1037.4	1028.0	1011.3	1009.1
50°	975.1	959.8	951.8	937.5	932.9
52.5°	891.4	876.0	869.3	856.3	851.7
55°	759.4	747.2	742.4	729.7	726.8
57.5°	634.1	626.1	624.4	612.3	610.9
60°	557.9	553.3	553.3	542.2	542.2
62.5°	493.0	489.5	491.9	484.6	483.5
65°	407.9	404.8	409.4	406.2	406.2
67.5°	340.7	340.7	343.5	342.1	342.1
70°	303.1	303.1	304.6	304.6	304.6
72.5°	269.4	268.3	272.3	272.0	271.0
75°	220.4	220.4	220.4	221.9	221.9
77.5°	171.6	171.8	173.2	172.9	171.6
80°	139.0	140.6	140.6	139.0	139.0
82.5°	106.7	108.0	108.0	107.7	106.7
85°	56.3	59.3	62.5	62.5	62.5
87.5°	16.1	21.0	25.1	25.1	23.7
90°	11.4	17.1	17.1	11.4	5.7
92.5°	28.6	85.6	79.9	34.2	28.6
95°	51.4	177.0	514.0	131.3	79.9
97.5°	79.9	199.9	1028.1	468.3	251.3
100°	108.5	211.3	1199.4	1125.2	725.3
102.5°	142.8	228.5	1193.7	1582.0	1302.2
105°	177.0	251.3	1113.7	1879.0	1747.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	274.1	337.0	868.1	1890.5	2153.1
115°	308.4	371.3	828.2	1747.7	2061.8
117.5°	342.7	411.2	805.3	1616.3	1930.4
120°	371.3	445.4	788.1	1490.6	1799.1
122.5°	394.1	479.8	776.8	1387.9	1667.7
125°	417.0	514.0	771.0	1302.2	1553.5
127.5°	439.8	536.8	771.0	1239.4	1450.7
130°	462.7	548.3	765.3	1176.5	1365.0
132.5°	485.5	554.0	765.3	1130.8	1290.7
135°	502.6	565.4	765.3	1085.1	1227.9
137.5°	525.5	576.9	765.3	1045.2	1176.5
140°	542.6	594.0	765.3	1005.2	1119.4
142.5°	565.4	611.1	765.3	965.3	1068.0
145°	588.3	628.2	759.6	936.7	1016.6
147.5°	611.1	645.4	753.9	908.1	970.9
150°	628.2	662.5	753.9	879.5	930.9
152.5°	651.1	679.6	748.2	851.0	896.7
155°	668.3	691.1	748.2	833.8	862.4
157.5°	685.4	708.2	748.2	816.7	839.6
160°	702.5	719.6	753.9	805.3	822.4
162.5°	719.6	731.1	753.9	793.9	805.3
165°	731.1	736.8	753.9	788.1	793.9
167.5°	742.4	748.2	753.9	782.5	782.5
170°	748.2	753.9	759.6	776.8	776.8
172.5°	759.6	759.6	759.6	771.0	771.0
175°	765.3	765.3	759.6	771.0	765.3
177.5°	765.3	765.3	759.6	771.0	765.3
180°	765.3	765.3	765.3	765.3	765.3



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	211.3	279.9	1011.0	2010.4	2033.3
110°	239.8	308.4	930.9	1993.2	2158.9



(END OF REPORT)