

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: P563701

Luminaire Tested: **SQ4-PP3-125U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563701  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-125U-075D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

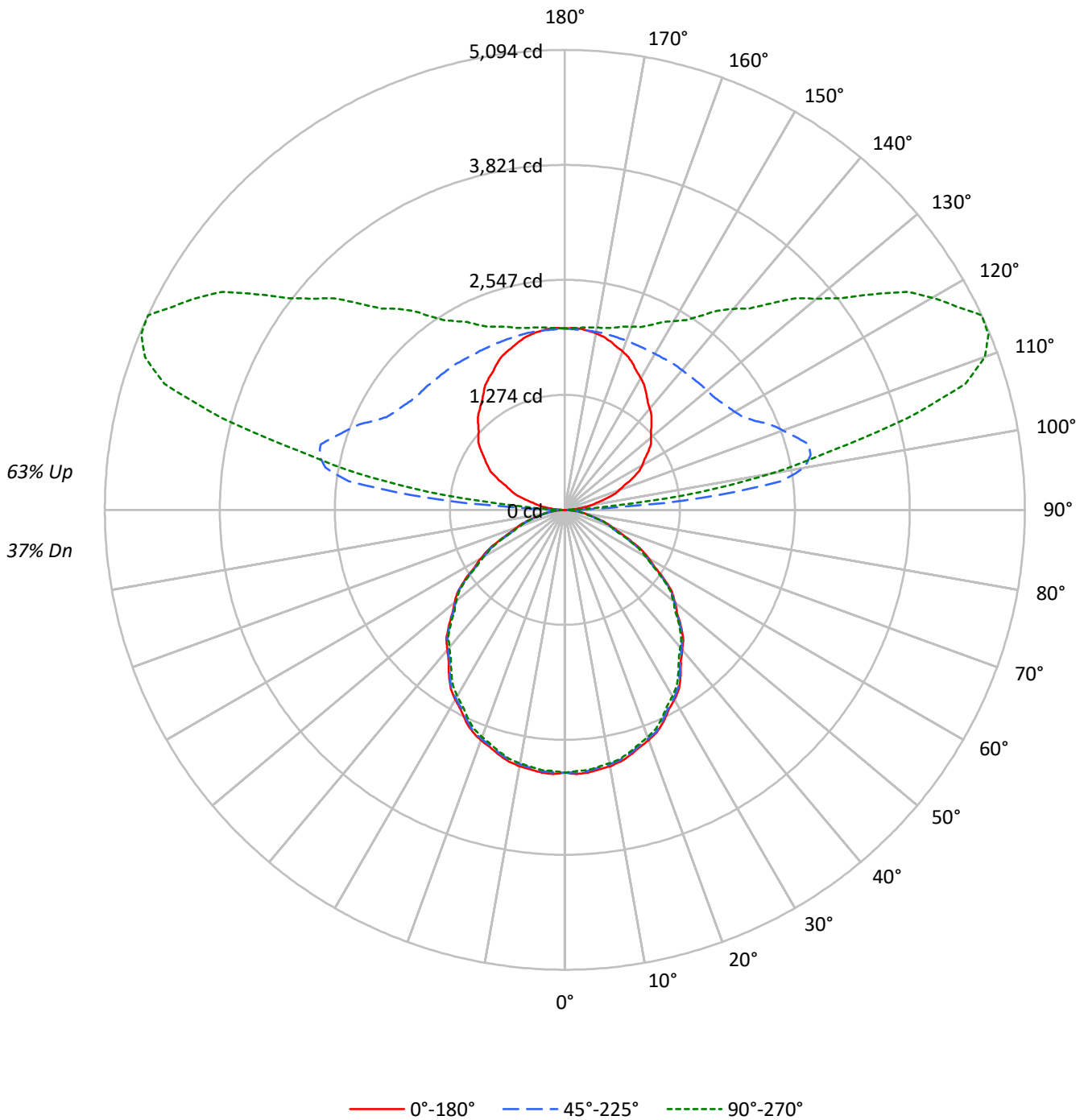
Lumens per Lamp: N/A  
Luminaire Lumens: 20421.4 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 172.4  
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



TEST NUMBER: P563701  
CATALOG NUMBER: SQ4-PP3-125U-075D-940-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P563701

CATALOG NUMBER: SQ4-PP3-125U-075D-940-1D-UNV-STD-W-12

**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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

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

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8571	8463
35°	8391	8334	8228
40°	8123	8072	7980
45°	7901	7846	7768
50°	7617	7569	7495
55°	7223	7127	7073
60°	6576	6388	6356
65°	5793	5552	5533
70°	5001	4795	4795
75°	4305	4244	4184
80°	3795	3841	3751
85°	2971	3243	3243



TEST NUMBER: P563701

CATALOG NUMBER: SQ4-PP3-125U-075D-940-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.3	1.3
10°-20°	786.0	3.8
20°-30°	1177.4	5.8
30°-40°	1381.0	6.8
40°-50°	1385.3	6.8
50°-60°	1181.8	5.8
60°-70°	770.7	3.8
70°-80°	386.7	1.9
80°-90°	111.7	0.5
90°-100°	939.5	4.6
100°-110°	2530.9	12.4
110°-120°	2656.1	13.0
120°-130°	2155.4	10.6
130°-140°	1690.4	8.3
140°-150°	1297.8	6.4
150°-160°	933.1	4.6
160°-170°	570.1	2.8
170°-180°	192.2	0.9
0°-30°	2238.7	11.0
0°-40°	3619.7	17.7
0°-60°	6186.8	30.3
0°-90°	7455.9	36.5
90°-120°	6126.5	30.0
90°-150°	11270.0	55.2
90°-180°	12965.0	63.5
0°-180°	20421.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2922	2894	2904	2893	2893	277
15°	2809	2782	2794	2784	2779	793
25°	2587	2557	2569	2546	2544	1190
35°	2235	2213	2220	2194	2192	1396
45°	1817	1804	1804	1786	1786	1399
55°	1347	1342	1329	1322	1319	1197
65°	796	781	763	758	760	794
75°	362	362	357	355	352	393
85°	84	92	92	92	92	99
90°	5	15	31	33	33	13
95°	143	511	1540	788	545	150
105°	468	728	2799	4188	3930	492
115°	826	1012	2331	4504	5094	813
125°	1128	1296	2093	3537	4163	1007
135°	1359	1516	2034	2854	3231	1049
145°	1571	1694	2008	2440	2620	985
155°	1783	1848	1990	2189	2259	821
165°	1934	1957	1998	2078	2088	545
175°	2011	2008	2001	2029	2024	191
180°	2008	2008	2008	2008	2008	

TEST NUMBER: P563701

CATALOG NUMBER: SQ4-PP3-125U-075D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2929.6	2905.7	2911.3	2906.9	2894.9
5°	2921.5	2894.0	2903.6	2893.4	2893.4
7.5°	2901.6	2871.6	2881.2	2870.9	2870.4
10°	2883.2	2853.3	2862.8	2852.5	2850.0
12.5°	2856.7	2826.7	2838.3	2826.0	2825.5
15°	2809.2	2781.8	2793.9	2783.6	2778.6
17.5°	2755.6	2725.7	2740.3	2726.0	2724.0
20°	2714.8	2684.9	2699.5	2679.1	2679.1
22.5°	2665.8	2635.9	2652.5	2626.0	2626.0
25°	2587.2	2557.3	2569.4	2546.3	2543.8
27.5°	2493.8	2464.4	2477.0	2451.0	2450.5
30°	2426.5	2399.0	2413.7	2385.6	2383.1
32.5°	2353.0	2327.5	2338.2	2310.1	2307.6
35°	2235.1	2212.7	2219.8	2194.2	2191.7
37.5°	2111.1	2088.2	2096.3	2074.3	2073.4
40°	2023.3	2008.4	2010.6	1992.6	1987.6
42.5°	1941.7	1924.7	1926.9	1909.0	1908.0
45°	1816.7	1804.2	1803.9	1786.1	1786.1
47.5°	1684.0	1674.5	1671.7	1656.9	1656.4
50°	1592.1	1584.7	1581.9	1569.1	1566.6
52.5°	1496.2	1492.7	1484.0	1473.2	1472.7
55°	1347.2	1342.2	1329.3	1321.6	1319.1
57.5°	1185.4	1175.4	1160.9	1149.8	1151.7
60°	1069.1	1059.1	1038.5	1033.4	1033.4
62.5°	956.8	944.8	924.2	917.1	921.1
65°	796.1	781.1	762.9	757.9	760.3
67.5°	650.1	636.7	617.0	616.9	614.9
70°	556.2	548.7	533.3	533.3	533.3
72.5°	472.5	469.0	457.7	457.7	455.7
75°	362.3	362.3	357.2	354.6	352.1
77.5°	271.5	272.5	269.9	267.3	262.8
80°	214.3	219.3	216.9	214.3	211.8
82.5°	161.3	166.2	165.8	161.2	160.7
85°	84.2	91.7	91.9	91.9	91.9
87.5°	23.5	33.5	38.8	39.4	41.4
90°	5.1	15.1	30.7	33.3	33.3
92.5°	62.4	220.5	436.0	209.9	145.8
95°	143.3	511.0	1540.2	787.6	545.0
97.5°	228.7	585.0	2415.7	2018.1	1521.8
100°	294.2	614.4	2694.1	2818.8	2338.5
102.5°	357.7	655.9	2786.2	3418.4	3024.1
105°	468.2	728.4	2799.0	4187.5	3929.8
107.5°	572.6	804.7	2679.8	4582.7	4649.3
110°	642.2	862.3	2571.3	4705.4	4948.1

TEST NUMBER: P563701

CATALOG NUMBER: SQ4-PP3-125U-075D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	715.9	920.0	2466.9	4678.3	5077.1
115°	826.4	1011.5	2330.8	4503.6	5093.9
117.5°	927.2	1100.8	2225.4	4224.7	4882.1
120°	992.7	1160.3	2172.2	4024.5	4699.9
122.5°	1050.0	1215.6	2133.3	3819.8	4493.2
125°	1128.3	1295.9	2092.8	3537.2	4162.7
127.5°	1203.5	1368.6	2067.3	3288.1	3846.4
130°	1248.5	1413.6	2057.0	3145.3	3635.6
132.5°	1293.6	1456.7	2046.8	3019.5	3469.8
135°	1358.6	1516.2	2034.0	2853.6	3231.4
137.5°	1420.5	1571.6	2027.3	2712.9	3023.1
140°	1463.5	1608.5	2021.2	2626.3	2906.4
142.5°	1508.5	1643.6	2017.1	2545.4	2781.6
145°	1570.9	1693.5	2008.4	2439.8	2619.9
147.5°	1638.5	1745.0	1999.7	2350.9	2492.5
150°	1683.5	1776.0	1995.6	2295.1	2412.6
152.5°	1724.4	1805.0	1993.6	2249.5	2345.1
155°	1783.3	1848.3	1990.5	2189.1	2259.1
157.5°	1834.9	1885.5	1991.0	2146.6	2193.6
160°	1867.7	1910.2	1993.1	2121.8	2156.8
162.5°	1896.3	1930.9	1995.1	2101.1	2126.1
165°	1934.2	1956.7	1998.2	2077.7	2087.7
167.5°	1964.9	1977.9	2000.7	2059.7	2063.7
170°	1985.4	1990.4	2000.7	2049.3	2049.3
172.5°	1997.7	1998.7	2002.8	2039.1	2039.1
175°	2011.0	2008.5	2000.7	2028.8	2023.8
177.5°	2016.6	2012.6	2002.3	2018.6	2014.5
180°	2008.4	2008.4	2008.4	2008.4	2008.4

(END OF REPORT)