

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: P563697

Luminaire Tested: **SQ4-PP3-125U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563697  
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-935-1D-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20525.6 lumens  
Efficiency: N/A  
Efficacy: 119.1 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

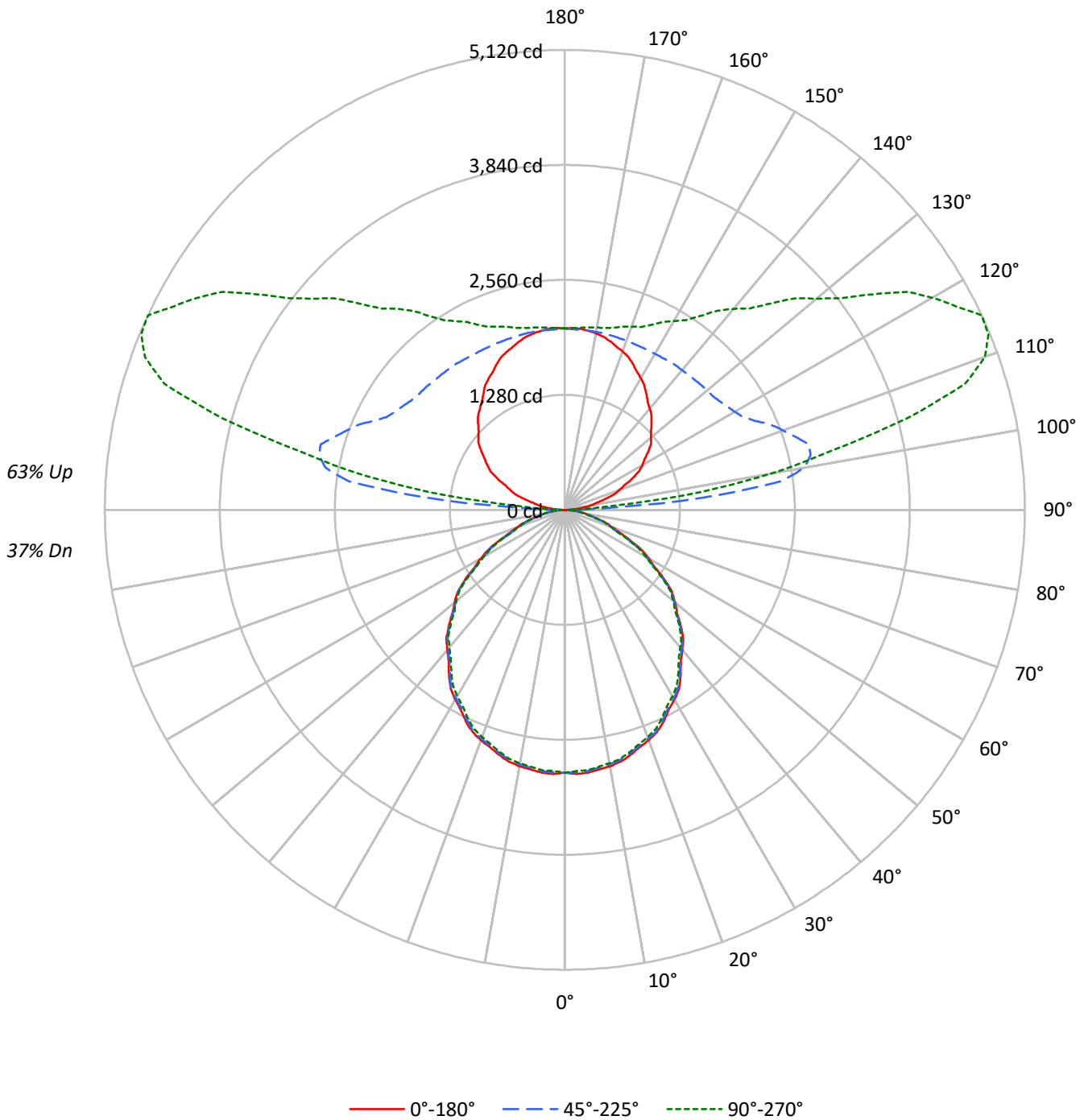
Input Watts (W): 172.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				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°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7941	7886	7808
50°	7657	7607	7534
55°	7260	7164	7109
60°	6609	6420	6388
65°	5822	5580	5561
70°	5027	4820	4820
75°	4328	4266	4205
80°	3815	3861	3771
85°	2985	3257	3257



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.7	1.3
10°-20°	790.1	3.8
20°-30°	1183.4	5.8
30°-40°	1388.0	6.8
40°-50°	1392.4	6.8
50°-60°	1187.8	5.8
60°-70°	774.7	3.8
70°-80°	388.6	1.9
80°-90°	112.3	0.5
90°-100°	944.3	4.6
100°-110°	2543.8	12.4
110°-120°	2669.6	13.0
120°-130°	2166.3	10.6
130°-140°	1699.0	8.3
140°-150°	1304.4	6.4
150°-160°	937.9	4.6
160°-170°	573.0	2.8
170°-180°	193.2	0.9
0°-30°	2250.1	11.0
0°-40°	3638.2	17.7
0°-60°	6218.4	30.3
0°-90°	7494.0	36.5
90°-120°	6157.8	30.0
90°-150°	11327.5	55.2
90°-180°	13032.0	63.5
0°-180°	20525.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2926	2926	2926	2926	2926	
5°	2936	2909	2918	2908	2908	279
15°	2824	2796	2808	2798	2793	797
25°	2600	2570	2582	2559	2557	1196
35°	2246	2224	2231	2205	2203	1403
45°	1826	1813	1813	1795	1795	1406
55°	1354	1349	1336	1328	1326	1203
65°	800	785	767	762	764	799
75°	364	364	359	356	354	395
85°	85	92	92	92	92	100
90°	5	15	31	33	33	13
95°	144	514	1548	792	548	150
105°	471	732	2813	4209	3950	495
115°	831	1017	2343	4526	5120	817
125°	1134	1302	2104	3555	4184	1013
135°	1366	1524	2044	2868	3248	1054
145°	1579	1702	2019	2452	2633	990
155°	1792	1858	2001	2200	2271	825
165°	1944	1967	2008	2088	2098	548
175°	2021	2019	2011	2039	2034	192
180°	2019	2019	2019	2019	2019	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2926.1	2926.1	2926.1	2926.1	2926.1
2.5°	2944.6	2920.5	2926.1	2921.7	2909.7
5°	2936.4	2908.8	2918.4	2908.2	2908.2
7.5°	2916.4	2886.3	2895.9	2885.6	2885.1
10°	2897.9	2867.8	2877.4	2867.1	2864.6
12.5°	2871.2	2841.2	2852.8	2840.5	2840.0
15°	2823.5	2796.0	2808.2	2797.8	2792.8
17.5°	2769.7	2739.6	2754.3	2739.9	2737.9
20°	2728.7	2698.6	2713.3	2692.8	2692.8
22.5°	2679.4	2649.3	2666.1	2639.4	2639.4
25°	2600.4	2570.3	2582.5	2559.3	2556.8
27.5°	2506.6	2477.0	2489.6	2463.5	2463.0
30°	2438.9	2411.3	2426.0	2397.8	2395.3
32.5°	2365.0	2339.4	2350.1	2321.9	2319.4
35°	2246.5	2224.0	2231.1	2205.4	2202.9
37.5°	2121.9	2098.8	2107.0	2084.9	2083.9
40°	2033.7	2018.6	2020.8	2002.8	1997.8
42.5°	1951.6	1934.6	1936.7	1918.8	1917.8
45°	1825.9	1813.4	1813.1	1795.2	1795.2
47.5°	1692.6	1683.1	1680.3	1665.4	1664.9
50°	1600.3	1592.7	1590.0	1577.1	1574.6
52.5°	1503.8	1500.3	1491.5	1480.7	1480.2
55°	1354.1	1349.1	1336.1	1328.4	1325.9
57.5°	1191.5	1181.4	1166.9	1155.6	1157.6
60°	1074.5	1064.5	1043.8	1038.6	1038.6
62.5°	961.7	949.7	928.9	921.8	925.8
65°	800.1	785.1	766.8	761.7	764.2
67.5°	653.4	639.9	620.1	620.1	618.1
70°	559.1	551.5	536.0	536.0	536.0
72.5°	475.0	471.4	460.1	460.0	458.0
75°	364.2	364.2	359.0	356.4	353.9
77.5°	272.9	273.9	271.3	268.7	264.1
80°	215.4	220.4	218.0	215.4	212.9
82.5°	162.1	167.1	166.7	162.1	161.6
85°	84.6	92.2	92.3	92.3	92.3
87.5°	23.6	33.6	39.0	39.6	41.6
90°	5.1	15.2	30.9	33.4	33.4
92.5°	62.7	221.7	438.2	210.9	146.6
95°	144.0	513.6	1548.1	791.6	547.7
97.5°	229.9	587.9	2428.0	2028.4	1529.6
100°	295.7	617.6	2707.8	2833.2	2350.4
102.5°	359.5	659.2	2800.4	3435.8	3039.6
105°	470.6	732.1	2813.3	4208.9	3949.9
107.5°	575.5	808.8	2693.4	4606.1	4673.0
110°	645.5	866.7	2584.4	4729.5	4973.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	719.5	924.7	2479.5	4702.2	5103.0
115°	830.6	1016.7	2342.7	4526.5	5119.9
117.5°	931.9	1106.4	2236.7	4246.2	4907.0
120°	997.8	1166.2	2183.2	4045.0	4723.9
122.5°	1055.4	1221.8	2144.2	3839.3	4516.1
125°	1134.0	1302.5	2103.5	3555.3	4183.9
127.5°	1209.7	1375.6	2077.8	3304.8	3866.1
130°	1254.9	1420.9	2067.5	3161.3	3654.2
132.5°	1300.2	1464.1	2057.2	3034.9	3487.5
135°	1365.5	1523.9	2044.4	2868.2	3247.9
137.5°	1427.7	1579.6	2037.7	2726.7	3038.5
140°	1470.9	1616.8	2031.5	2639.7	2921.3
142.5°	1516.2	1652.0	2027.4	2558.4	2795.8
145°	1578.9	1702.1	2018.7	2452.2	2633.3
147.5°	1646.8	1753.9	2009.9	2362.9	2505.2
150°	1692.1	1785.1	2005.8	2306.8	2425.0
152.5°	1733.2	1814.2	2003.7	2261.0	2357.1
155°	1792.4	1857.7	2000.7	2200.3	2270.7
157.5°	1844.3	1895.1	2001.2	2157.6	2204.8
160°	1877.2	1920.0	2003.2	2132.6	2167.8
162.5°	1906.0	1940.7	2005.3	2111.8	2137.0
165°	1944.1	1966.7	2008.4	2088.3	2098.4
167.5°	1974.9	1988.0	2010.9	2070.2	2074.2
170°	1995.5	2000.5	2010.9	2059.8	2059.8
172.5°	2007.9	2008.9	2013.0	2049.5	2049.5
175°	2021.2	2018.7	2010.9	2039.1	2034.1
177.5°	2026.9	2022.9	2012.5	2028.9	2024.8
180°	2018.7	2018.7	2018.7	2018.7	2018.7

(END OF REPORT)