

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: P564384

Luminaire Tested: **SQ4-PR1-125U-100D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564384  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-125U-100D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

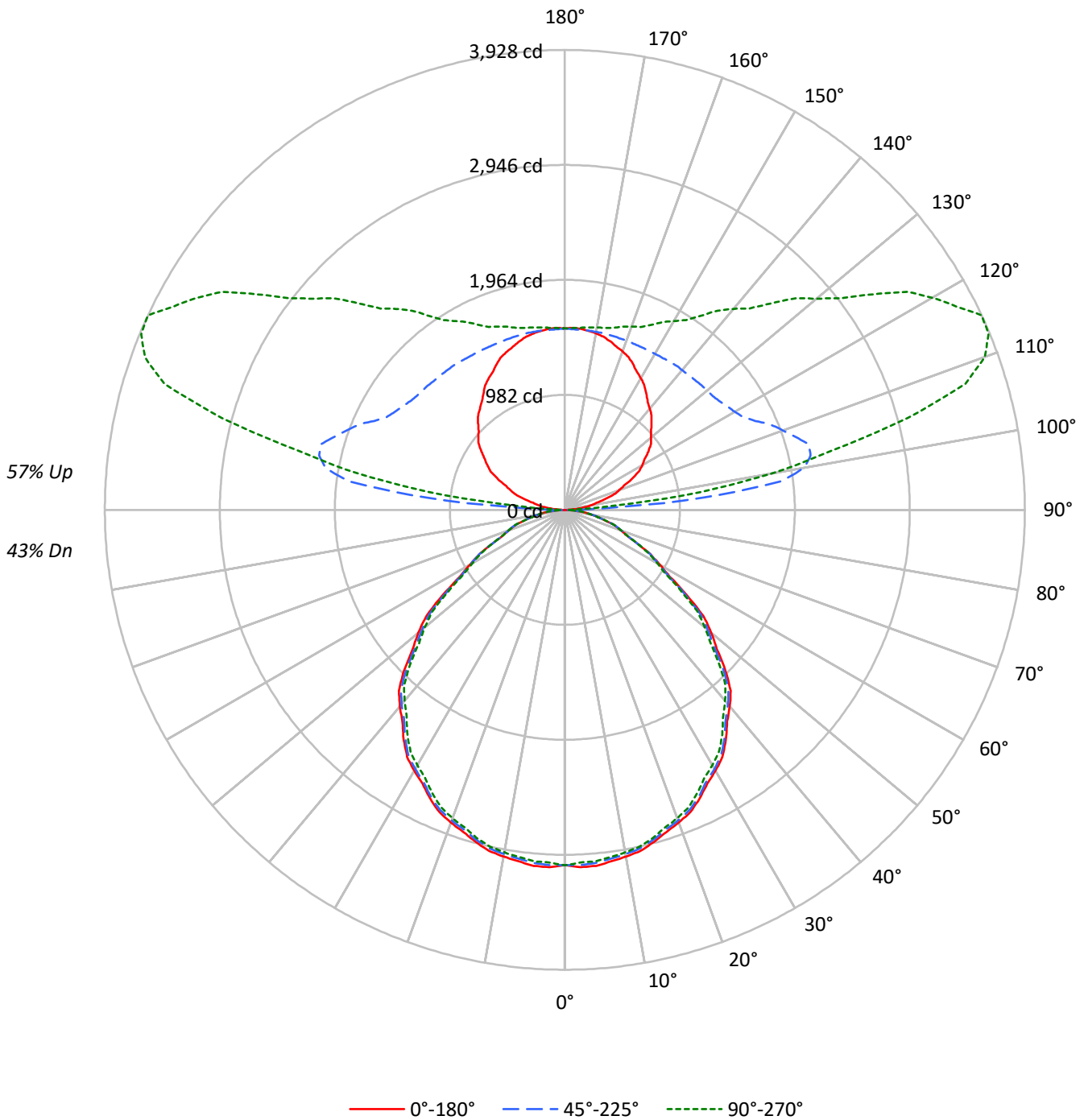
Lumens per Lamp: N/A  
Luminaire Lumens: 17592.1 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 133.3  
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: P564384  
CATALOG NUMBER: SQ4-PR1-125U-100D-835-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P564384

CATALOG NUMBER: SQ4-PR1-125U-100D-835-1D-UNV-STD-W-8

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43	43	43
1	96	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37	37	37
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36	31	31	31
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27	27	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23	23	23
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20	20	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18	18	18
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16	16	16
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14	14	14
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13	13	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12	12	12

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

	0°	45°	90°
0°	14006	14006	14006
5°	14132	14023	13950
10°	14087	13989	13916
15°	14025	13938	13863
20°	13955	13864	13762
25°	13856	13763	13604
30°	13707	13609	13414
35°	13504	13387	13195
40°	13197	13055	12818
45°	12659	12437	12181
50°	11711	11430	11204
55°	10221	9990	9780
60°	8614	8541	8372
65°	7450	7478	7421
70°	6842	6877	6877
75°	6572	6572	6618
80°	6182	6254	6182
85°	4981	5536	5536



TEST NUMBER: P564384

CATALOG NUMBER: SQ4-PR1-125U-100D-835-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.1	1.6
10°-20°	821.4	4.7
20°-30°	1239.0	7.0
30°-40°	1476.3	8.4
40°-50°	1455.5	8.3
50°-60°	1112.3	6.3
60°-70°	688.3	3.9
70°-80°	390.9	2.2
80°-90°	122.6	0.7
90°-100°	724.6	4.1
100°-110°	1951.8	11.1
110°-120°	2048.3	11.6
120°-130°	1662.1	9.4
130°-140°	1303.6	7.4
140°-150°	1000.8	5.7
150°-160°	719.6	4.1
160°-170°	439.6	2.5
170°-180°	148.3	0.8
0°-30°	2347.5	13.3
0°-40°	3823.8	21.7
0°-60°	6391.6	36.3
0°-90°	7593.4	43.2
90°-120°	4724.6	26.9
90°-150°	8691.2	49.4
90°-180°	9999.0	56.8
0°-180°	17592.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3036	3036	3036	3036	3036	
5°	3052	3018	3028	3018	3012	290
15°	2937	2906	2918	2908	2903	829
25°	2722	2689	2704	2675	2673	1253
35°	2398	2370	2377	2346	2343	1497
45°	1940	1915	1906	1872	1867	1487
55°	1271	1250	1242	1221	1216	1139
65°	682	677	685	680	680	691
75°	369	369	369	371	371	389
85°	94	99	105	105	105	109
90°	4	12	24	26	26	11
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1211	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	

TEST NUMBER: P564384

CATALOG NUMBER: SQ4-PR1-125U-100D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3036.1	3036.1	3036.1	3036.1	3036.1
2.5°	3054.9	3028.3	3036.1	3029.5	3015.1
5°	3051.8	3018.5	3028.2	3017.6	3012.5
7.5°	3028.2	2995.5	3005.2	2994.7	2991.6
10°	3007.3	2976.6	2986.4	2975.8	2970.7
12.5°	2984.3	2951.6	2963.4	2950.7	2945.6
15°	2936.7	2906.0	2918.4	2907.8	2902.7
17.5°	2884.4	2851.7	2864.0	2851.8	2845.2
20°	2842.6	2811.9	2824.2	2805.9	2803.3
22.5°	2796.5	2765.8	2778.2	2753.6	2753.1
25°	2722.3	2689.0	2704.0	2675.1	2672.6
27.5°	2633.9	2603.2	2615.6	2586.2	2583.1
30°	2573.2	2542.5	2554.9	2523.4	2518.3
32.5°	2504.2	2475.5	2485.9	2454.4	2451.3
35°	2398.0	2369.9	2377.1	2345.6	2343.1
37.5°	2277.2	2251.6	2255.7	2221.2	2218.6
40°	2191.4	2165.8	2167.9	2131.2	2128.6
42.5°	2097.3	2071.7	2069.5	2032.9	2030.3
45°	1940.4	1914.8	1906.4	1872.3	1867.1
47.5°	1761.5	1735.9	1720.2	1692.4	1688.8
50°	1631.8	1606.2	1592.6	1568.9	1561.2
52.5°	1491.6	1466.1	1454.5	1432.9	1425.2
55°	1270.9	1250.5	1242.1	1221.1	1216.0
57.5°	1061.2	1047.4	1045.0	1024.5	1022.5
60°	933.6	925.9	925.7	907.4	907.4
62.5°	824.8	819.2	823.2	811.1	809.1
65°	682.5	677.4	685.1	679.9	679.9
67.5°	570.1	570.1	574.8	572.7	572.7
70°	507.3	507.3	509.9	509.9	509.9
72.5°	450.8	448.8	455.5	455.5	453.4
75°	368.7	368.7	368.7	371.3	371.3
77.5°	287.1	287.6	289.7	289.2	287.1
80°	232.7	235.3	235.4	232.7	232.7
82.5°	178.3	180.9	181.0	180.4	178.3
85°	94.1	99.3	104.6	104.6	104.6
87.5°	28.0	37.7	46.6	46.9	44.9
90°	3.9	11.7	23.7	25.6	25.6
92.5°	48.1	170.1	336.2	161.9	112.5
95°	110.5	394.1	1187.8	607.4	420.3
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.8	1803.4
102.5°	275.8	505.8	2148.6	2636.2	2332.1
105°	361.1	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.9

TEST NUMBER: P564384

CATALOG NUMBER: SQ4-PR1-125U-100D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.5	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.0	848.9	1716.2	3258.0	3765.0
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.4	1645.1	2945.7	3465.1
125°	870.1	999.4	1613.9	2727.8	3210.1
127.5°	928.1	1055.4	1594.2	2535.7	2966.3
130°	962.8	1090.2	1586.3	2425.6	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.8
135°	1047.7	1169.2	1568.6	2200.6	2491.9
137.5°	1095.4	1212.0	1563.4	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.4
142.5°	1163.3	1267.5	1555.5	1963.0	2145.1
145°	1211.4	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1812.9	1922.1
150°	1298.3	1369.6	1539.0	1769.9	1860.6
152.5°	1329.8	1391.9	1537.4	1734.8	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.2
157.5°	1415.1	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.0	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1540.9	1602.3	1610.0
167.5°	1515.3	1525.3	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.5	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.9	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.7	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)