

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: P564399

Luminaire Tested: **SQ4-PR1-125U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564399  
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-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

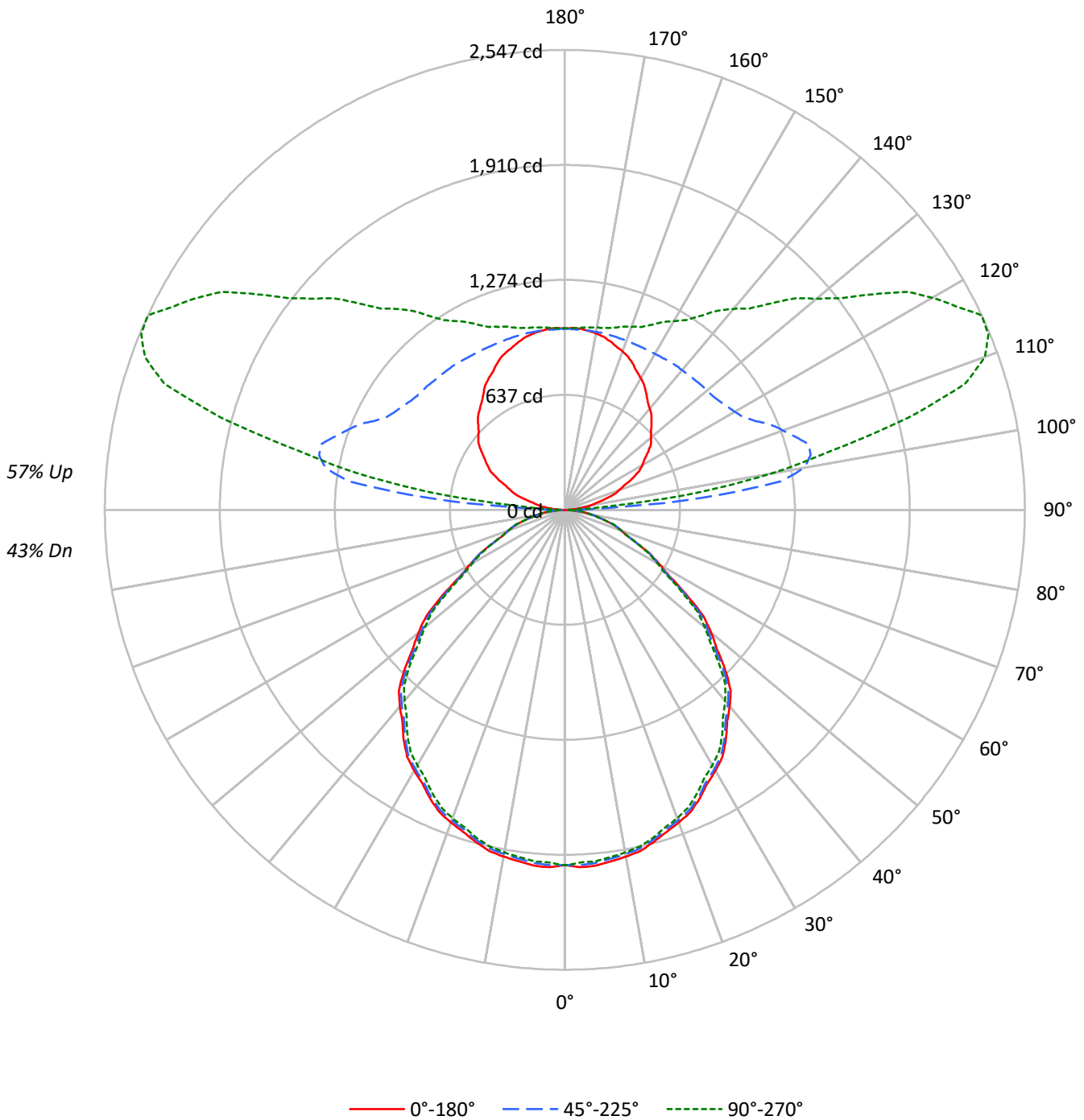
Lumens per Lamp: N/A  
Luminaire Lumens: 11406.0 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 102.8  
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	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36	31
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12

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

	0°	45°	90°
0°	12108	12108	12108
5°	12216	12123	12060
10°	12178	12094	12030
15°	12124	12049	11984
20°	12063	11986	11897
25°	11978	11898	11760
30°	11850	11765	11597
35°	11675	11572	11407
40°	11408	11286	11081
45°	10944	10751	10530
50°	10124	9881	9686
55°	8836	8637	8454
60°	7446	7383	7237
65°	6440	6465	6415
70°	5915	5945	5945
75°	5682	5682	5723
80°	5345	5405	5345
85°	4305	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.1	1.6
10°-20°	532.6	4.7
20°-30°	803.3	7.0
30°-40°	957.1	8.4
40°-50°	943.7	8.3
50°-60°	721.2	6.3
60°-70°	446.3	3.9
70°-80°	253.5	2.2
80°-90°	79.5	0.7
90°-100°	469.8	4.1
100°-110°	1265.4	11.1
110°-120°	1328.0	11.6
120°-130°	1077.7	9.4
130°-140°	845.2	7.4
140°-150°	648.9	5.7
150°-160°	466.6	4.1
160°-170°	285.0	2.5
170°-180°	96.1	0.8
0°-30°	1522.0	13.3
0°-40°	2479.2	21.7
0°-60°	4144.0	36.3
0°-90°	4923.3	43.2
90°-120°	3063.3	26.9
90°-150°	5635.0	49.4
90°-180°	6483.0	56.8
0°-180°	11406.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1968	1968	1968	1968	1968	
5°	1979	1957	1963	1956	1953	188
15°	1904	1884	1892	1885	1882	537
25°	1765	1744	1753	1734	1733	812
35°	1555	1536	1541	1521	1519	970
45°	1258	1242	1236	1214	1211	964
55°	824	811	805	792	788	738
65°	442	439	444	441	441	448
75°	239	239	239	241	241	252
85°	61	64	68	68	68	71
90°	3	8	15	17	17	7
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1968.5	1968.5	1968.5	1968.5	1968.5
2.5°	1980.7	1963.4	1968.5	1964.2	1954.9
5°	1978.6	1957.1	1963.4	1956.5	1953.2
7.5°	1963.4	1942.2	1948.5	1941.6	1939.6
10°	1949.8	1929.9	1936.3	1929.4	1926.1
12.5°	1934.9	1913.7	1921.3	1913.1	1909.8
15°	1904.0	1884.1	1892.2	1885.3	1882.0
17.5°	1870.1	1848.9	1856.9	1849.0	1844.7
20°	1843.0	1823.1	1831.1	1819.2	1817.6
22.5°	1813.2	1793.3	1801.3	1785.3	1785.0
25°	1765.0	1743.5	1753.1	1734.5	1732.8
27.5°	1707.7	1687.8	1695.8	1676.8	1674.8
30°	1668.4	1648.5	1656.5	1636.1	1632.8
32.5°	1623.6	1605.0	1611.7	1591.3	1589.4
35°	1554.8	1536.5	1541.2	1520.8	1519.2
37.5°	1476.4	1459.9	1462.5	1440.1	1438.5
40°	1420.8	1404.2	1405.6	1381.8	1380.1
42.5°	1359.8	1343.2	1341.8	1318.0	1316.4
45°	1258.1	1241.5	1236.0	1213.9	1210.6
47.5°	1142.1	1125.5	1115.3	1097.3	1094.9
50°	1058.0	1041.4	1032.6	1017.2	1012.2
52.5°	967.1	950.5	943.0	929.0	924.0
55°	824.0	810.7	805.4	791.7	788.4
57.5°	688.0	679.1	677.5	664.3	662.9
60°	605.3	600.3	600.2	588.3	588.3
62.5°	534.8	531.1	533.7	525.9	524.6
65°	442.5	439.2	444.2	440.8	440.8
67.5°	369.6	369.6	372.7	371.3	371.3
70°	328.9	328.9	330.6	330.6	330.6
72.5°	292.3	291.0	295.4	295.3	294.0
75°	239.1	239.1	239.1	240.8	240.8
77.5°	186.2	186.5	187.9	187.5	186.2
80°	150.9	152.6	152.6	150.9	150.9
82.5°	115.6	117.3	117.3	117.0	115.6
85°	61.0	64.4	67.8	67.8	67.8
87.5°	18.1	24.5	30.2	30.4	29.1
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)