

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: P564091

Luminaire Tested: **SQ4-PR1-075U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564091  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-100D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

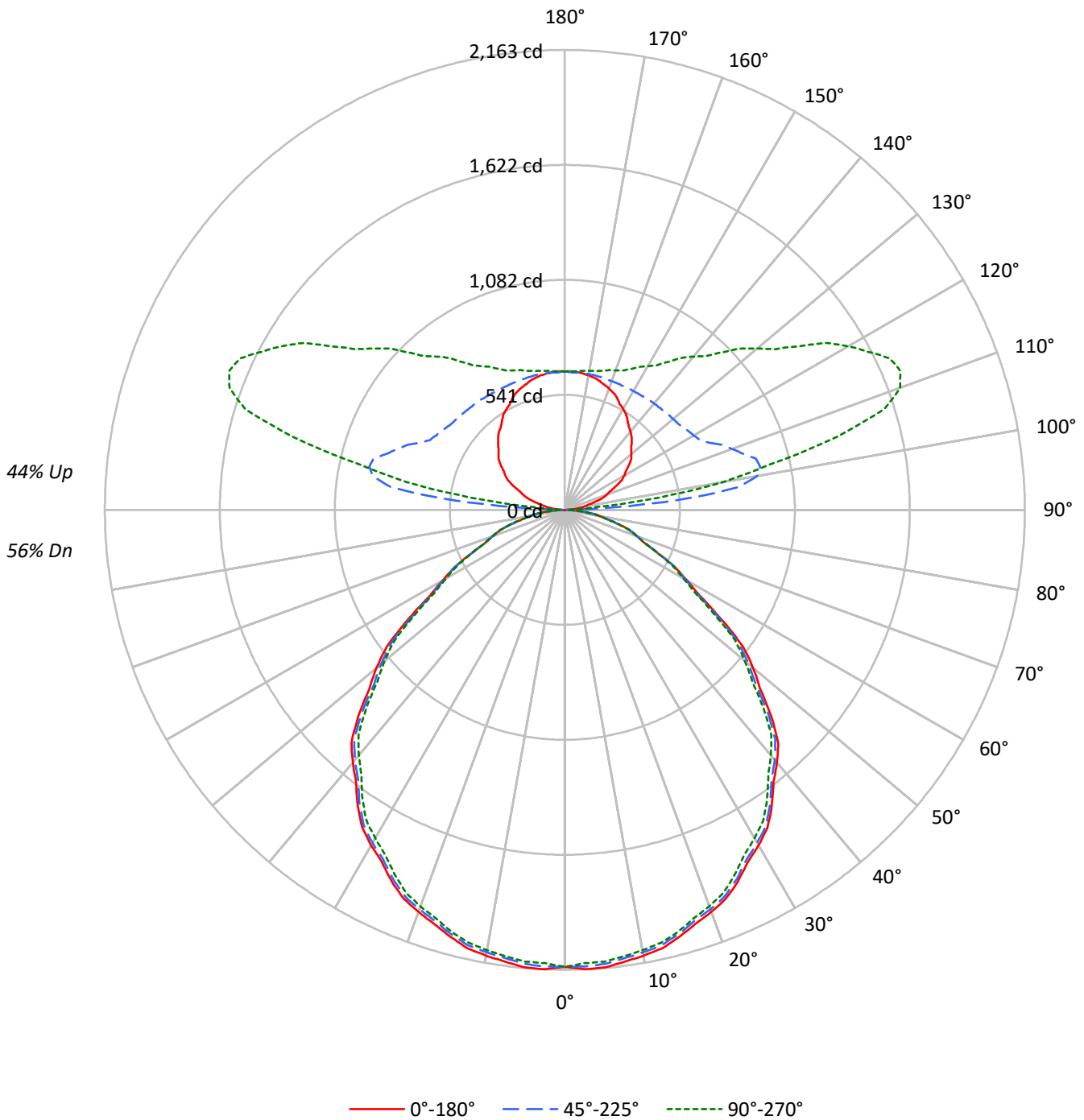
Lumens per Lamp: N/A  
Luminaire Lumens: 9613.4 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82.9  
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																	
RC	80									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	50	30	10	50	30	10	50	30	10	0															
RCR																																													
0	109	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56																										
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48																											
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41																											
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35																											
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30																											
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26																											
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23																											
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21																											
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18																											
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17																											
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15																											

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

	0°	45°	90°
0°	13220	13220	13220
5°	13339	13236	13167
10°	13296	13204	13135
15°	13238	13156	13085
20°	13172	13087	12990
25°	13079	12991	12840
30°	12938	12846	12661
35°	12747	12636	12455
40°	12456	12323	12099
45°	11948	11740	11498
50°	11054	10788	10576
55°	9648	9429	9231
60°	8130	8061	7903
65°	7033	7059	7005
70°	6458	6492	6492
75°	6203	6203	6248
80°	5837	5901	5837
85°	4700	5222	5222



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.2	2.1
10°-20°	581.5	6.0
20°-30°	877.1	9.1
30°-40°	1045.1	10.9
40°-50°	1030.3	10.7
50°-60°	787.4	8.2
60°-70°	487.3	5.1
70°-80°	276.8	2.9
80°-90°	85.9	0.9
90°-100°	306.9	3.2
100°-110°	844.3	8.8
110°-120°	871.5	9.1
120°-130°	698.2	7.3
130°-140°	548.4	5.7
140°-150°	420.3	4.4
150°-160°	302.2	3.1
160°-170°	184.8	1.9
170°-180°	62.3	0.6
0°-30°	1661.9	17.3
0°-40°	2706.9	28.2
0°-60°	4524.7	47.1
0°-90°	5374.7	55.9
90°-120°	2022.6	21.0
90°-150°	3689.5	38.4
90°-180°	4239.0	44.1
0°-180°	9613.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2149	2149	2149	2149	2149	
5°	2160	2137	2144	2136	2133	205
15°	2079	2057	2066	2058	2055	587
25°	1927	1904	1914	1894	1892	887
35°	1698	1678	1683	1660	1659	1059
45°	1374	1356	1350	1325	1322	1052
55°	900	885	879	864	861	806
65°	483	480	485	481	481	489
75°	261	261	261	263	263	276
85°	67	70	74	74	74	77
90°	1	5	10	12	12	6
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2149.3	2149.3	2149.3	2149.3	2149.3
2.5°	2162.6	2143.8	2149.3	2144.6	2134.5
5°	2160.4	2136.9	2143.7	2136.3	2132.6
7.5°	2143.7	2120.6	2127.4	2120.0	2117.8
10°	2128.9	2107.2	2114.1	2106.6	2103.0
12.5°	2112.6	2089.5	2097.8	2088.9	2085.2
15°	2078.9	2057.2	2066.0	2058.5	2054.9
17.5°	2041.9	2018.7	2027.5	2018.9	2014.2
20°	2012.3	1990.6	1999.3	1986.3	1984.5
22.5°	1979.7	1958.0	1966.8	1949.3	1949.0
25°	1927.1	1903.6	1914.2	1893.8	1892.0
27.5°	1864.6	1842.8	1851.6	1830.8	1828.7
30°	1821.6	1799.9	1808.7	1786.4	1782.7
32.5°	1772.7	1752.5	1759.8	1737.5	1735.4
35°	1697.6	1677.7	1682.8	1660.5	1658.7
37.5°	1612.1	1594.0	1596.9	1572.4	1570.6
40°	1551.3	1533.2	1534.7	1508.7	1506.9
42.5°	1484.7	1466.6	1465.1	1439.1	1437.3
45°	1373.6	1355.5	1349.6	1325.4	1321.8
47.5°	1247.0	1228.9	1217.7	1198.1	1195.5
50°	1155.2	1137.1	1127.4	1110.6	1105.2
52.5°	1055.9	1037.8	1029.7	1014.4	1008.9
55°	899.7	885.2	879.3	864.4	860.8
57.5°	751.2	741.5	739.8	725.3	723.8
60°	660.9	655.5	655.3	642.4	642.4
62.5°	583.9	579.9	582.8	574.2	572.8
65°	483.2	479.6	485.0	481.3	481.3
67.5°	403.6	403.6	406.9	405.4	405.4
70°	359.1	359.1	361.0	361.0	361.0
72.5°	319.2	317.7	322.5	322.5	321.0
75°	261.0	261.0	261.0	262.9	262.9
77.5°	203.3	203.6	205.1	204.7	203.3
80°	164.8	166.6	166.6	164.8	164.8
82.5°	126.3	128.1	128.1	127.7	126.3
85°	66.6	70.3	74.0	74.0	74.0
87.5°	19.5	26.1	31.6	32.1	30.6
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)