

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: P564283

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564283
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

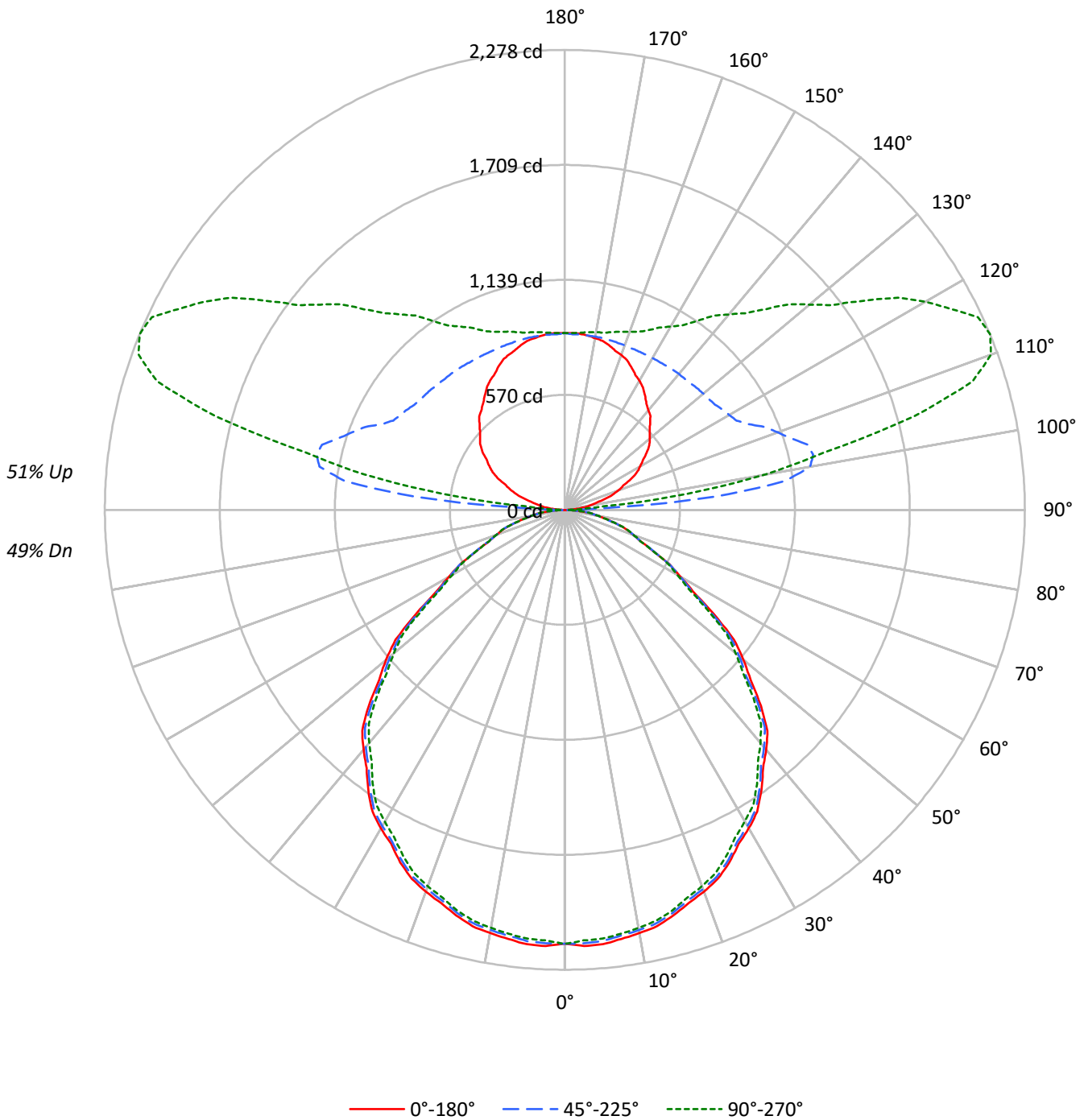
Lumens per Lamp: N/A
Luminaire Lumens: 11061.3 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.9
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					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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49				
1	98	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41				
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35				
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30	26				
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23				
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20				
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16				
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14				
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13				

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	1.8
10°-20°	581.5	5.3
20°-30°	877.1	7.9
30°-40°	1045.1	9.4
40°-50°	1030.3	9.3
50°-60°	787.4	7.1
60°-70°	487.3	4.4
70°-80°	276.8	2.5
80°-90°	86.0	0.8
90°-100°	409.9	3.7
100°-110°	1131.5	10.2
110°-120°	1166.9	10.5
120°-130°	937.7	8.5
130°-140°	736.9	6.7
140°-150°	565.2	5.1
150°-160°	406.2	3.7
160°-170°	248.4	2.2
170°-180°	83.8	0.8
0°-30°	1661.9	15.0
0°-40°	2706.9	24.5
0°-60°	4524.7	40.9
0°-90°	5374.8	48.6
90°-120°	2708.2	24.5
90°-150°	4948.1	44.7
90°-180°	5686.0	51.4
0°-180°	11061.3	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	78
90°	3	6	11	13	14	7
95°	60	222	744	306	199	64
105°	202	311	1245	1900	1790	215
115°	361	437	1003	1985	2257	355
125°	496	564	909	1538	1805	441
135°	596	661	884	1246	1404	462
145°	692	740	872	1060	1141	433
155°	780	806	865	952	982	359
165°	844	855	870	903	910	238
175°	875	876	871	884	881	83
180°	875	875	875	875	875	



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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°	19.8	26.2	31.9	32.1	30.9
90°	2.8	5.5	11.2	12.6	14.0
92.5°	25.2	104.6	187.1	68.3	53.2
95°	60.2	221.8	743.6	305.6	198.8
97.5°	99.7	248.4	1101.5	848.0	614.2
100°	128.8	264.4	1233.7	1242.4	1009.6
102.5°	156.8	282.5	1259.4	1535.0	1314.3
105°	201.6	311.2	1244.9	1900.5	1789.6
107.5°	249.3	346.7	1175.4	2076.7	2117.2
110°	282.9	370.5	1121.6	2114.6	2246.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	313.1	397.4	1071.2	2084.7	2278.5
115°	361.3	436.6	1002.6	1984.8	2257.3
117.5°	403.3	478.3	957.5	1844.2	2154.2
120°	431.3	505.2	939.6	1749.1	2061.2
122.5°	458.2	528.8	925.0	1660.2	1955.9
125°	495.7	564.2	908.8	1538.0	1805.0
127.5°	527.6	596.1	899.3	1434.6	1664.9
130°	548.9	617.4	894.8	1371.4	1580.9
132.5°	569.1	634.2	890.3	1318.3	1508.1
135°	596.5	660.9	883.6	1245.7	1404.5
137.5°	627.3	685.9	880.2	1184.6	1320.2
140°	644.1	701.6	878.0	1143.9	1263.1
142.5°	663.2	716.3	875.7	1107.8	1212.6
145°	691.7	739.7	872.4	1060.5	1141.2
147.5°	719.2	761.1	869.3	1020.6	1083.3
150°	739.4	773.6	868.2	996.8	1047.4
152.5°	755.0	787.1	867.1	976.4	1018.3
155°	780.0	806.0	865.4	951.5	981.6
157.5°	802.9	822.9	865.7	933.3	953.9
160°	816.4	834.2	866.8	923.1	938.2
162.5°	827.6	843.2	867.9	914.1	925.9
165°	844.4	855.3	869.6	903.3	910.2
167.5°	857.3	863.8	871.0	896.8	899.0
170°	864.0	869.5	871.0	893.4	893.4
172.5°	869.6	872.9	871.0	888.9	887.8
175°	875.2	876.5	871.0	883.5	880.8
177.5°	877.4	876.3	870.7	878.5	876.3
180°	875.2	875.2	875.2	875.2	875.2

(END OF REPORT)