

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: P564268

Luminaire Tested: **SQ4-PR1-100U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564268
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-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

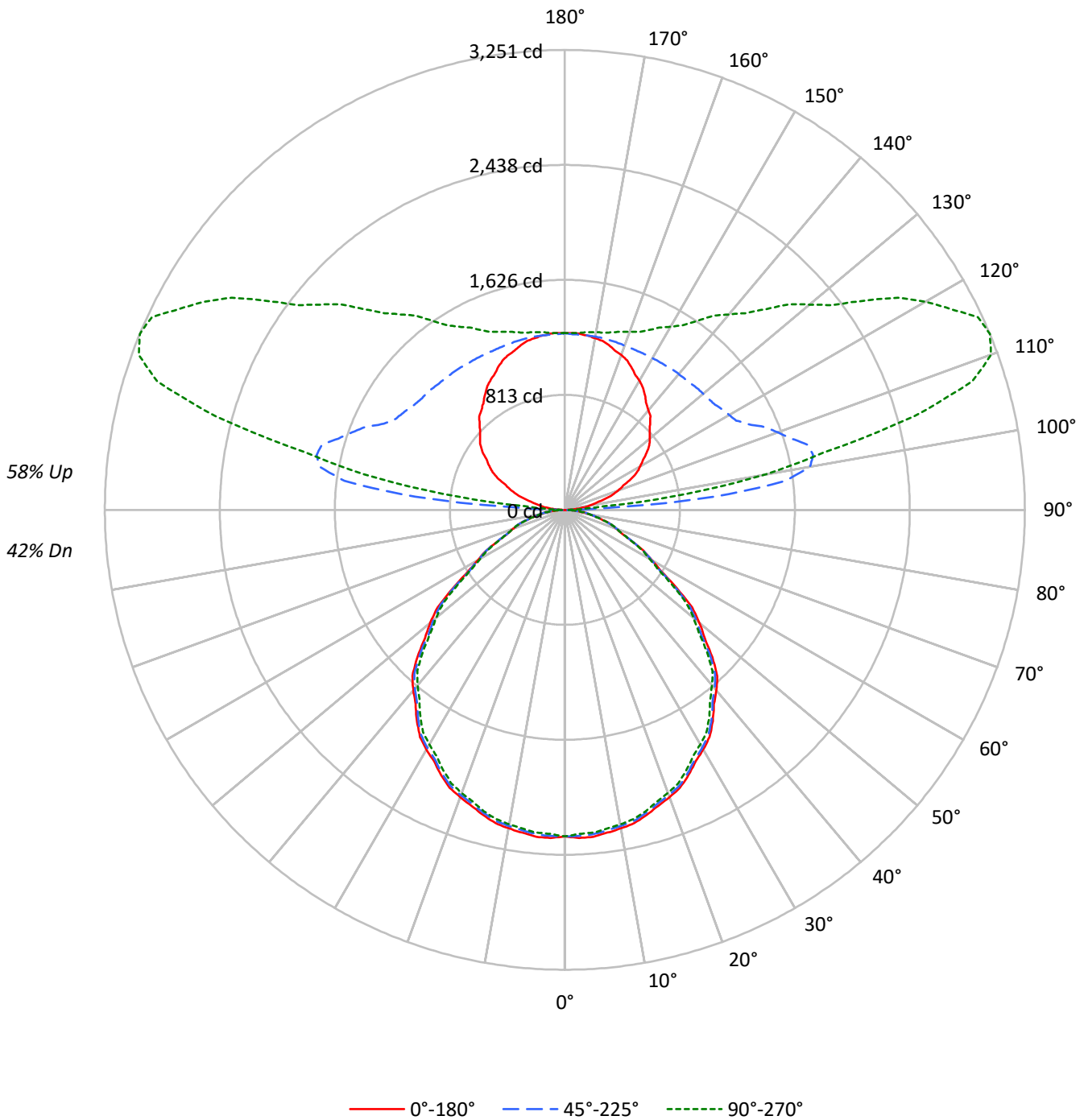
Lumens per Lamp: N/A
Luminaire Lumens: 13885.8 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 103.9
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	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10647	10647	10647
5°	10743	10660	10605
10°	10709	10634	10578
15°	10662	10595	10538
20°	10608	10540	10462
25°	10533	10462	10341
30°	10420	10346	10198
35°	10266	10176	10031
40°	10032	9924	9745
45°	9623	9454	9260
50°	8903	8688	8517
55°	7770	7595	7435
60°	6548	6492	6364
65°	5663	5685	5642
70°	5202	5228	5228
75°	4996	4996	5032
80°	4699	4753	4699
85°	3790	4208	4208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.6
10°-20°	624.4	4.5
20°-30°	941.9	6.8
30°-40°	1122.2	8.1
40°-50°	1106.4	8.0
50°-60°	845.6	6.1
60°-70°	523.3	3.8
70°-80°	297.2	2.1
80°-90°	93.0	0.7
90°-100°	584.8	4.2
100°-110°	1614.4	11.6
110°-120°	1664.9	12.0
120°-130°	1337.9	9.6
130°-140°	1051.5	7.6
140°-150°	806.4	5.8
150°-160°	579.6	4.2
160°-170°	354.4	2.6
170°-180°	119.5	0.9
0°-30°	1784.6	12.9
0°-40°	2906.8	20.9
0°-60°	4858.8	35.0
0°-90°	5772.3	41.6
90°-120°	3864.1	27.8
90°-150°	7060.0	50.8
90°-180°	8113.0	58.4
0°-180°	13885.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2320	2295	2302	2294	2290	220
15°	2232	2209	2218	2210	2207	630
25°	2069	2044	2056	2034	2032	952
35°	1823	1802	1807	1783	1781	1138
45°	1475	1456	1449	1423	1419	1130
55°	966	951	944	928	924	866
65°	519	515	521	517	517	526
75°	280	280	280	282	282	296
85°	72	76	80	80	80	83
90°	4	8	16	18	20	9
95°	86	316	1061	436	284	92
105°	288	444	1776	2712	2553	306
115°	516	623	1430	2832	3221	507
125°	707	805	1297	2194	2575	629
135°	851	943	1261	1777	2004	659
145°	987	1055	1245	1513	1628	618
155°	1113	1150	1235	1358	1401	513
165°	1205	1220	1241	1289	1299	340
175°	1249	1251	1243	1261	1257	119
180°	1249	1249	1249	1249	1249	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2308.0	2308.0	2308.0	2308.0	2308.0
2.5°	2322.3	2302.1	2308.0	2303.0	2292.1
5°	2319.9	2294.6	2302.0	2294.0	2290.1
7.5°	2302.0	2277.1	2284.5	2276.5	2274.2
10°	2286.1	2262.8	2270.2	2262.2	2258.3
12.5°	2268.6	2243.7	2252.7	2243.1	2239.2
15°	2232.4	2209.1	2218.5	2210.5	2206.6
17.5°	2192.7	2167.8	2177.2	2167.9	2162.9
20°	2160.9	2137.5	2147.0	2133.0	2131.1
22.5°	2125.9	2102.6	2112.0	2093.3	2092.9
25°	2069.4	2044.2	2055.5	2033.6	2031.7
27.5°	2002.2	1978.9	1988.3	1966.0	1963.7
30°	1956.1	1932.8	1942.2	1918.3	1914.4
32.5°	1903.6	1881.9	1889.7	1865.8	1863.5
35°	1822.9	1801.5	1807.0	1783.1	1781.2
37.5°	1731.1	1711.6	1714.8	1688.5	1686.6
40°	1665.9	1646.4	1648.0	1620.1	1618.2
42.5°	1594.3	1574.9	1573.2	1545.4	1543.4
45°	1475.0	1455.6	1449.2	1423.3	1419.4
47.5°	1339.1	1319.6	1307.7	1286.5	1283.8
50°	1240.5	1221.0	1210.6	1192.6	1186.8
52.5°	1133.9	1114.5	1105.7	1089.3	1083.4
55°	966.1	950.6	944.3	928.3	924.4
57.5°	806.7	796.2	794.4	778.8	777.3
60°	709.7	703.9	703.7	689.8	689.8
62.5°	627.0	622.7	625.8	616.6	615.1
65°	518.8	515.0	520.8	516.9	516.9
67.5°	433.4	433.4	436.9	435.4	435.4
70°	385.7	385.7	387.6	387.6	387.6
72.5°	342.7	341.2	346.3	346.3	344.7
75°	280.3	280.3	280.3	282.3	282.3
77.5°	218.3	218.7	220.3	219.8	218.3
80°	176.9	178.9	178.9	176.9	176.9
82.5°	135.6	137.5	137.6	137.1	135.6
85°	71.6	75.5	79.5	79.5	79.5
87.5°	21.5	28.5	35.0	35.4	34.2
90°	4.0	7.9	16.0	18.0	20.0
92.5°	36.0	149.3	266.9	97.4	75.9
95°	85.9	316.4	1060.9	436.1	283.7
97.5°	142.3	354.4	1571.6	1210.0	876.3
100°	183.8	377.2	1760.2	1772.6	1440.5
102.5°	223.8	403.1	1796.9	2190.2	1875.3
105°	287.7	444.0	1776.2	2711.6	2553.4
107.5°	355.6	494.7	1677.1	2963.1	3020.9
110°	403.6	528.6	1600.3	3017.1	3204.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.7	567.1	1528.4	2974.4	3251.0
115°	515.5	622.9	1430.5	2831.9	3220.7
117.5°	575.4	682.5	1366.2	2631.3	3073.6
120°	615.4	720.9	1340.6	2495.6	2941.0
122.5°	653.7	754.5	1319.8	2368.8	2790.7
125°	707.3	804.9	1296.7	2194.4	2575.3
127.5°	752.8	850.5	1283.1	2047.0	2375.5
130°	783.2	880.9	1276.7	1956.8	2255.7
132.5°	812.0	904.9	1270.3	1881.0	2151.8
135°	851.1	942.9	1260.7	1777.3	2003.9
137.5°	895.1	978.7	1255.9	1690.3	1883.7
140°	919.1	1001.1	1252.7	1632.2	1802.1
142.5°	946.2	1022.0	1249.5	1580.6	1730.2
145°	987.0	1055.4	1244.7	1513.1	1628.3
147.5°	1026.1	1085.9	1240.3	1456.1	1545.6
150°	1054.9	1103.7	1238.7	1422.2	1494.5
152.5°	1077.3	1123.0	1237.1	1393.1	1452.9
155°	1112.9	1150.0	1234.7	1357.6	1400.6
157.5°	1145.6	1174.1	1235.1	1331.7	1361.0
160°	1164.8	1190.2	1236.7	1317.1	1338.6
162.5°	1180.8	1203.1	1238.3	1304.2	1321.0
165°	1204.8	1220.4	1240.7	1288.9	1298.7
167.5°	1223.1	1232.5	1242.7	1279.5	1282.7
170°	1232.7	1240.5	1242.7	1274.7	1274.7
172.5°	1240.7	1245.4	1242.7	1268.3	1266.7
175°	1248.7	1250.7	1242.7	1260.6	1256.7
177.5°	1251.9	1250.3	1242.3	1253.4	1250.3
180°	1248.7	1248.7	1248.7	1248.7	1248.7

(END OF REPORT)