

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: P563577

Luminaire Tested: **SQ4-PP3-100U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563577
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-050D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

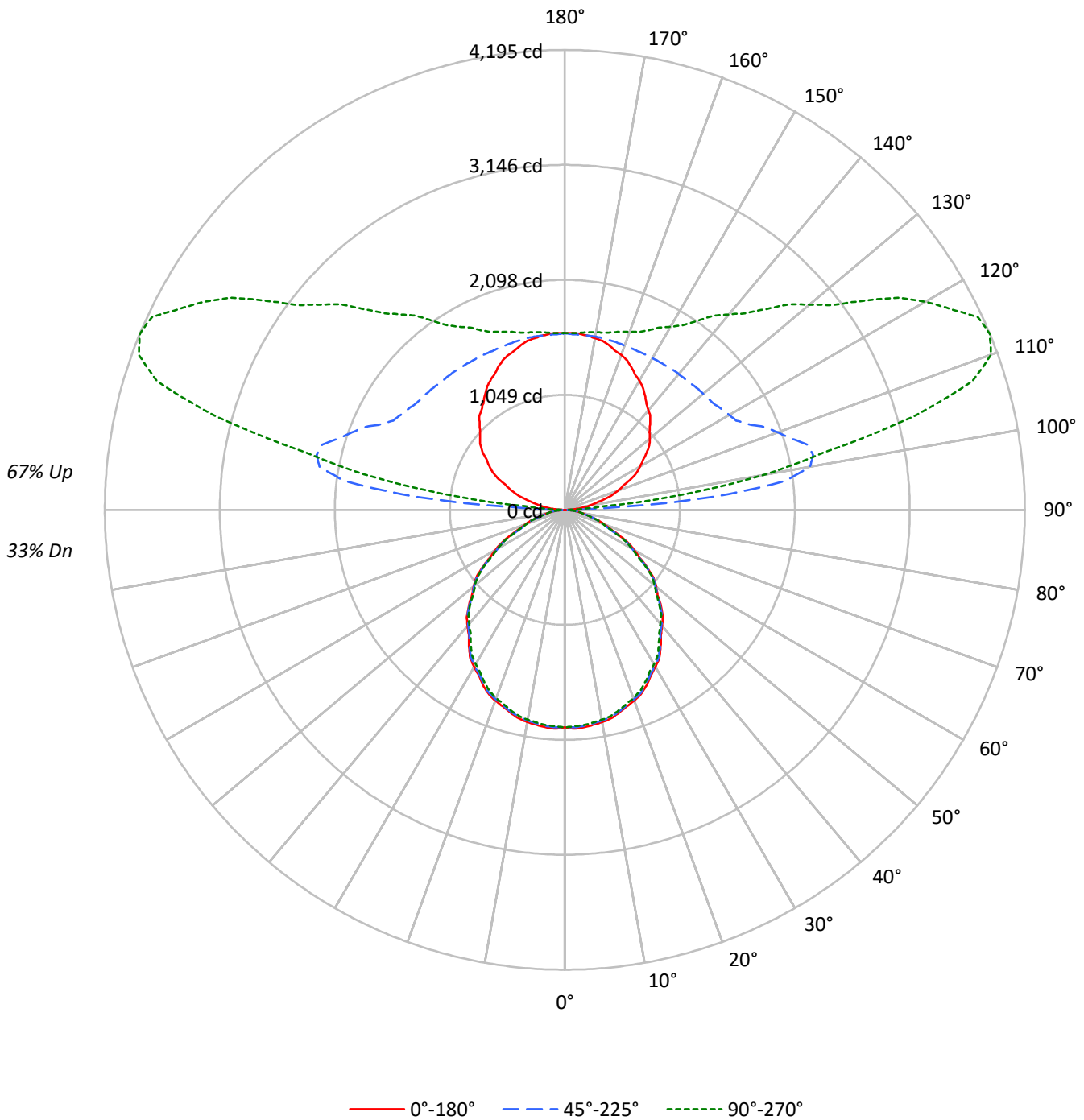
Lumens per Lamp: N/A
Luminaire Lumens: 15553.9 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 127.4
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	32	30	29	23
3	78	69	62	56	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	54	47	41	59	49	43	37	40	35	31	31	27	25	23	20	19	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	29	24	21	23	20	17	17	15	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6106	6106	6106
5°	6151	6113	6091
10°	6140	6097	6070
15°	6099	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5539	5504	5441
45°	5388	5350	5297
50°	5195	5161	5111
55°	4926	4860	4823
60°	4485	4356	4334
65°	3951	3786	3773
70°	3411	3270	3270
75°	2936	2895	2853
80°	2589	2619	2557
85°	2025	2209	2209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	1.2
10°-20°	536.0	3.4
20°-30°	802.9	5.2
30°-40°	941.8	6.1
40°-50°	944.7	6.1
50°-60°	805.9	5.2
60°-70°	525.6	3.4
70°-80°	263.7	1.7
80°-90°	76.3	0.5
90°-100°	754.6	4.9
100°-110°	2083.1	13.4
110°-120°	2148.4	13.8
120°-130°	1726.4	11.1
130°-140°	1356.8	8.7
140°-150°	1040.6	6.7
150°-160°	747.9	4.8
160°-170°	457.3	2.9
170°-180°	154.2	1.0
0°-30°	1526.7	9.8
0°-40°	2468.4	15.9
0°-60°	4219.1	27.1
0°-90°	5084.7	32.7
90°-120°	4986.1	32.1
90°-150°	9109.9	58.6
90°-180°	10469.0	67.3
0°-180°	15553.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1992	1974	1980	1973	1973	189
15°	1916	1897	1905	1898	1895	540
25°	1764	1744	1752	1736	1735	811
35°	1524	1509	1514	1496	1495	952
45°	1239	1230	1230	1218	1218	954
55°	919	915	906	901	900	816
65°	543	533	520	517	518	542
75°	247	247	244	242	240	268
85°	57	62	63	63	63	68
90°	5	10	21	23	26	10
95°	111	408	1369	563	366	119
105°	371	573	2292	3499	3295	395
115°	665	804	1846	3654	4156	654
125°	913	1039	1673	2832	3323	812
135°	1098	1217	1627	2293	2586	850
145°	1274	1362	1606	1952	2101	797
155°	1436	1484	1593	1752	1807	662
165°	1555	1575	1601	1663	1676	438
175°	1611	1614	1604	1627	1622	153
180°	1611	1611	1611	1611	1611	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.3	1985.3	1985.3	1985.3	1985.3
2.5°	1997.8	1981.5	1985.3	1982.3	1974.2
5°	1992.3	1973.6	1980.1	1973.1	1973.1
7.5°	1978.7	1958.3	1964.8	1957.8	1957.5
10°	1966.2	1945.8	1952.3	1945.3	1943.6
12.5°	1948.1	1927.7	1935.6	1927.2	1926.9
15°	1915.7	1897.0	1905.3	1898.2	1894.8
17.5°	1879.2	1858.8	1868.7	1859.0	1857.6
20°	1851.3	1830.9	1840.9	1827.0	1827.0
22.5°	1817.9	1797.5	1808.9	1790.8	1790.8
25°	1764.3	1743.9	1752.2	1736.5	1734.8
27.5°	1700.7	1680.6	1689.2	1671.4	1671.1
30°	1654.7	1636.0	1646.0	1626.8	1625.1
32.5°	1604.6	1587.3	1594.5	1575.3	1573.6
35°	1524.2	1508.9	1513.8	1496.3	1494.6
37.5°	1439.7	1424.0	1429.6	1414.6	1413.9
40°	1379.8	1369.6	1371.1	1358.8	1355.4
42.5°	1324.1	1312.6	1314.0	1301.8	1301.2
45°	1238.9	1230.4	1230.2	1218.0	1218.0
47.5°	1148.4	1141.9	1140.0	1129.9	1129.6
50°	1085.7	1080.6	1078.8	1070.0	1068.3
52.5°	1020.3	1017.9	1012.0	1004.7	1004.3
55°	918.7	915.3	906.5	901.3	899.6
57.5°	808.4	801.6	791.7	784.1	785.4
60°	729.1	722.2	708.2	704.7	704.7
62.5°	652.5	644.3	630.2	625.4	628.1
65°	542.9	532.7	520.3	516.8	518.5
67.5°	443.3	434.2	420.7	420.7	419.3
70°	379.3	374.2	363.7	363.7	363.7
72.5°	322.2	319.9	312.2	312.1	310.8
75°	247.1	247.1	243.6	241.8	240.1
77.5°	185.1	185.8	184.1	182.3	179.2
80°	146.2	149.6	147.9	146.1	144.4
82.5°	110.0	113.4	113.1	110.0	109.6
85°	57.4	62.5	62.6	62.6	62.6
87.5°	16.3	22.8	26.4	27.0	28.8
90°	5.2	10.2	20.6	23.3	25.8
92.5°	46.4	192.6	344.4	125.7	98.0
95°	110.9	408.3	1368.9	562.7	366.1
97.5°	183.6	457.3	2027.9	1561.3	1130.7
100°	237.2	486.7	2271.3	2287.3	1858.8
102.5°	288.7	520.1	2318.7	2826.1	2419.8
105°	371.2	572.9	2291.9	3498.9	3294.7
107.5°	458.9	638.4	2164.0	3823.4	3898.0
110°	520.8	682.1	2065.0	3893.2	4135.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.5	731.7	1972.2	3838.1	4195.0
115°	665.1	803.8	1845.9	3654.2	4155.8
117.5°	742.5	880.6	1762.9	3395.4	3966.1
120°	794.0	930.2	1729.9	3220.2	3794.9
122.5°	843.5	973.6	1703.1	3056.5	3601.0
125°	912.6	1038.7	1673.2	2831.6	3323.1
127.5°	971.4	1097.4	1655.6	2641.3	3065.3
130°	1010.6	1136.6	1647.4	2524.9	2910.6
132.5°	1047.7	1167.7	1639.1	2427.2	2776.6
135°	1098.2	1216.7	1626.7	2293.4	2585.8
137.5°	1155.0	1262.9	1620.6	2181.0	2430.6
140°	1185.9	1291.8	1616.4	2106.1	2325.4
142.5°	1221.0	1318.8	1612.3	2039.5	2232.6
145°	1273.6	1361.8	1606.1	1952.4	2101.1
147.5°	1324.1	1401.2	1600.5	1878.9	1994.4
150°	1361.2	1424.2	1598.4	1835.1	1928.4
152.5°	1390.1	1449.1	1596.3	1797.6	1874.8
155°	1436.0	1483.9	1593.2	1751.8	1807.2
157.5°	1478.3	1515.1	1593.7	1718.4	1756.2
160°	1503.0	1535.8	1595.8	1699.6	1727.3
162.5°	1523.6	1552.4	1597.9	1682.9	1704.6
165°	1554.6	1574.7	1601.0	1663.1	1675.7
167.5°	1578.3	1590.4	1603.5	1651.1	1655.1
170°	1590.7	1600.7	1603.5	1644.8	1644.8
172.5°	1601.0	1607.0	1603.5	1636.5	1634.5
175°	1611.3	1613.8	1603.5	1626.6	1621.6
177.5°	1615.4	1613.4	1603.0	1617.4	1613.3
180°	1611.3	1611.3	1611.3	1611.3	1611.3

(END OF REPORT)