

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: P563788

Luminaire Tested: **SQ4-PP3-150U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563788
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

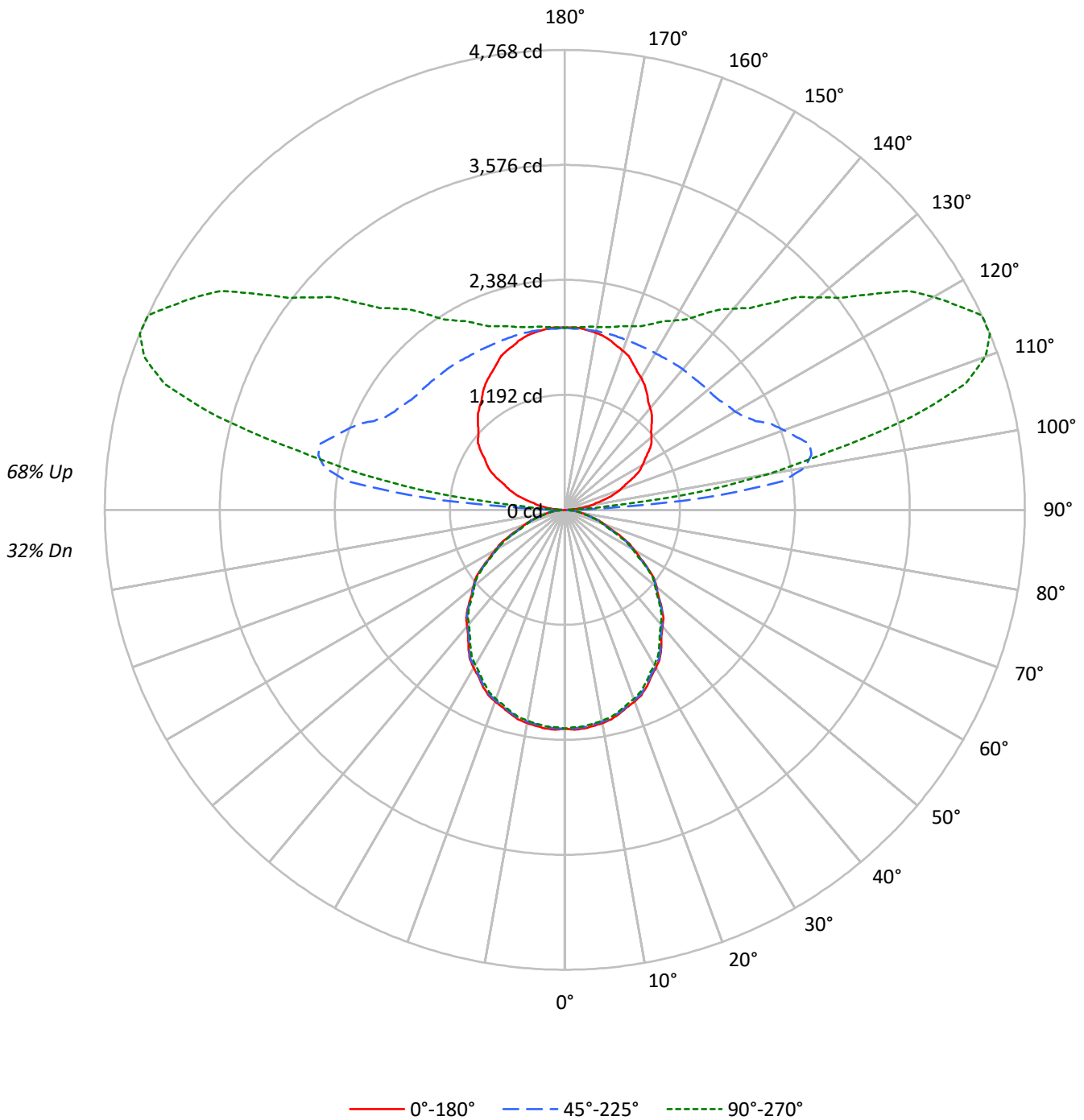
Lumens per Lamp: N/A
Luminaire Lumens: 17977.1 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 131.1
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	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	52	50	46	42	38	36	33	28	26	25	20
4	71	61	53	48	64	55	49	44	44	40	36	34	31	28	25	23	21	17
5	65	54	46	41	59	49	42	37	40	35	31	31	27	25	22	20	18	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	19	16	14	12
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	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	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10437
10°	10520	10445	10399
15°	10450	10394	10336
20°	10381	10322	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9738	9614
40°	9491	9431	9323
45°	9232	9167	9076
50°	8901	8843	8758
55°	8440	8328	8264
60°	7683	7463	7426
65°	6769	6486	6465
70°	5844	5603	5603
75°	5030	4959	4889
80°	4434	4487	4383
85°	3472	3784	3784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.2
10°-20°	612.3	3.4
20°-30°	917.1	5.1
30°-40°	1075.7	6.0
40°-50°	1079.1	6.0
50°-60°	920.5	5.1
60°-70°	600.4	3.3
70°-80°	301.2	1.7
80°-90°	87.3	0.5
90°-100°	877.2	4.9
100°-110°	2371.7	13.2
110°-120°	2493.5	13.9
120°-130°	2025.4	11.3
130°-140°	1588.7	8.8
140°-150°	1219.4	6.8
150°-160°	877.0	4.9
160°-170°	535.7	3.0
170°-180°	180.6	1.0
0°-30°	1743.8	9.7
0°-40°	2819.5	15.7
0°-60°	4819.1	26.8
0°-90°	5807.9	32.3
90°-120°	5742.4	31.9
90°-150°	10575.8	58.8
90°-180°	12169.0	67.7
0°-180°	17977.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2268	2268	2268	2268	2268	
5°	2276	2254	2262	2254	2254	216
15°	2188	2167	2176	2168	2164	617
25°	2015	1992	2001	1983	1982	927
35°	1741	1724	1729	1709	1707	1088
45°	1415	1405	1405	1391	1391	1090
55°	1049	1046	1036	1030	1028	933
65°	620	608	594	590	592	619
75°	282	282	278	276	274	306
85°	66	71	72	72	72	77
90°	4	12	26	28	26	12
95°	136	478	1459	755	449	142
105°	441	681	2631	3881	3722	464
115°	776	949	2182	4224	4768	766
125°	1063	1218	1967	3319	3899	947
135°	1274	1425	1914	2680	3033	984
145°	1481	1592	1888	2294	2468	927
155°	1672	1738	1871	2058	2125	771
165°	1820	1838	1879	1953	1963	513
175°	1890	1888	1881	1906	1902	179
180°	1888	1888	1888	1888	1888	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2267.7	2267.7	2267.7	2267.7	2267.7
2.5°	2282.0	2263.3	2267.7	2264.3	2255.0
5°	2275.6	2254.3	2261.7	2253.8	2253.8
7.5°	2260.1	2236.8	2244.2	2236.3	2235.9
10°	2245.8	2222.5	2229.9	2221.9	2220.0
12.5°	2225.2	2201.8	2210.8	2201.3	2200.9
15°	2188.2	2166.8	2176.3	2168.2	2164.3
17.5°	2146.5	2123.1	2134.5	2123.4	2121.8
20°	2114.7	2091.3	2102.7	2086.8	2086.8
22.5°	2076.5	2053.2	2066.2	2045.5	2045.5
25°	2015.3	1992.0	2001.4	1983.4	1981.5
27.5°	1942.5	1919.6	1929.4	1909.1	1908.8
30°	1890.1	1868.7	1880.1	1858.2	1856.3
32.5°	1832.8	1813.0	1821.3	1799.4	1797.5
35°	1741.0	1723.5	1729.1	1709.2	1707.2
37.5°	1644.4	1626.5	1632.9	1615.8	1615.0
40°	1576.1	1564.4	1566.1	1552.1	1548.2
42.5°	1512.5	1499.2	1500.9	1487.0	1486.2
45°	1415.1	1405.4	1405.1	1391.2	1391.2
47.5°	1311.7	1304.3	1302.2	1290.6	1290.3
50°	1240.2	1234.3	1232.2	1222.2	1220.3
52.5°	1165.4	1162.7	1155.9	1147.5	1147.2
55°	1049.4	1045.5	1035.5	1029.5	1027.5
57.5°	923.4	915.6	904.3	895.6	897.1
60°	832.7	825.0	808.9	804.9	804.9
62.5°	745.3	736.0	719.9	714.4	717.5
65°	620.1	608.4	594.2	590.3	592.3
67.5°	506.4	495.9	480.6	480.5	479.0
70°	433.3	427.4	415.4	415.4	415.4
72.5°	368.1	365.4	356.5	356.5	355.0
75°	282.2	282.2	278.2	276.2	274.3
77.5°	211.5	212.2	210.3	208.2	204.7
80°	166.9	170.8	168.9	166.9	165.0
82.5°	125.6	129.5	129.2	125.6	125.2
85°	65.6	71.4	71.5	71.5	71.5
87.5°	18.3	26.1	30.7	31.2	32.3
90°	4.1	12.0	26.4	28.4	26.4
92.5°	57.7	210.3	414.9	180.1	130.4
95°	136.1	477.8	1458.8	754.9	449.0
97.5°	218.6	548.0	2273.9	1881.8	1382.0
100°	280.4	576.4	2527.4	2635.8	2131.3
102.5°	337.3	615.8	2616.8	3207.6	2830.2
105°	440.9	681.3	2631.1	3881.0	3722.1
107.5°	536.8	756.1	2516.1	4301.1	4354.0
110°	611.5	810.2	2413.7	4413.9	4638.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	678.2	864.1	2319.4	4391.4	4768.4
115°	776.1	948.9	2182.1	4224.1	4768.4
117.5°	872.0	1034.1	2091.4	3968.5	4585.6
120°	930.5	1089.4	2037.8	3785.2	4414.9
122.5°	985.8	1141.5	2005.3	3588.6	4223.1
125°	1062.6	1217.5	1966.7	3318.8	3898.8
127.5°	1133.3	1285.5	1943.9	3098.6	3608.7
130°	1172.3	1329.2	1934.2	2962.5	3423.4
132.5°	1212.9	1368.3	1924.4	2839.8	3264.1
135°	1273.9	1424.9	1913.9	2679.7	3033.3
137.5°	1335.2	1477.9	1904.9	2549.8	2837.9
140°	1377.5	1510.6	1901.7	2466.2	2722.5
142.5°	1418.1	1543.3	1895.2	2390.7	2615.2
145°	1481.1	1592.4	1887.5	2293.7	2468.5
147.5°	1538.4	1636.9	1878.5	2205.8	2340.1
150°	1580.7	1668.1	1875.3	2158.1	2265.4
152.5°	1619.7	1696.0	1873.6	2113.8	2202.0
155°	1672.1	1737.7	1871.2	2057.6	2125.2
157.5°	1726.5	1772.2	1871.6	2018.5	2063.0
160°	1757.4	1795.2	1873.2	1993.8	2025.6
162.5°	1781.8	1813.2	1874.9	1974.1	1998.0
165°	1820.4	1838.3	1879.3	1952.7	1962.6
167.5°	1846.8	1859.1	1879.7	1934.3	1939.1
170°	1863.1	1869.0	1881.4	1926.1	1926.1
172.5°	1876.1	1877.3	1881.4	1916.3	1914.7
175°	1889.5	1887.5	1881.4	1905.7	1901.7
177.5°	1894.0	1889.2	1881.0	1897.1	1892.3
180°	1887.5	1887.5	1887.5	1887.5	1887.5

(END OF REPORT)