

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: P565124

Luminaire Tested: **SQ4-PW1-150U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565124
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

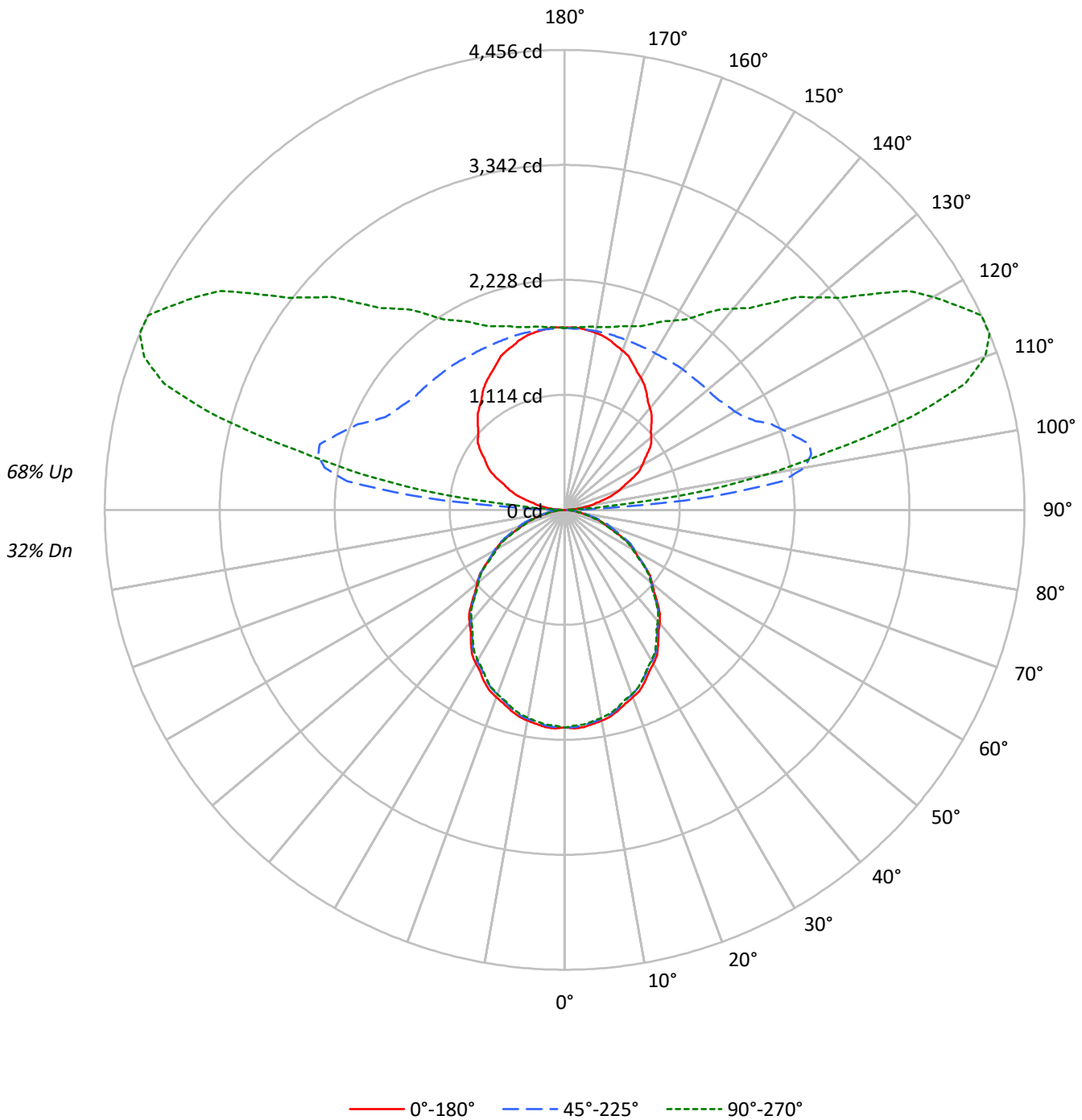
Lumens per Lamp: N/A
Luminaire Lumens: 16740.2 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9727	9727	9727
5°	9790	9712	9669
10°	9711	9633	9581
15°	9608	9502	9467
20°	9494	9348	9329
25°	9361	9191	9162
30°	9163	9025	8965
35°	8903	8777	8725
40°	8625	8491	8457
45°	8290	8180	8144
50°	7946	7879	7826
55°	7575	7575	7456
60°	7112	7250	6993
65°	6509	6833	6347
70°	5738	6289	5588
75°	4900	5629	4768
80°	3799	4737	3849
85°	2456	3636	3245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	1.2
10°-20°	560.6	3.3
20°-30°	831.5	5.0
30°-40°	972.9	5.8
40°-50°	968.6	5.8
50°-60°	836.4	5.0
60°-70°	602.1	3.6
70°-80°	315.7	1.9
80°-90°	81.9	0.5
90°-100°	819.7	4.9
100°-110°	2216.3	13.2
110°-120°	2330.1	13.9
120°-130°	1892.7	11.3
130°-140°	1484.7	8.9
140°-150°	1139.5	6.8
150°-160°	819.5	4.9
160°-170°	500.6	3.0
170°-180°	168.8	1.0
0°-30°	1590.6	9.5
0°-40°	2563.5	15.3
0°-60°	4368.5	26.1
0°-90°	5368.2	32.1
90°-120°	5366.2	32.1
90°-150°	9883.0	59.0
90°-180°	11372.0	67.9
0°-180°	16740.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2114	2090	2097	2092	2088	200
15°	2012	1986	1990	1986	1982	567
25°	1839	1808	1806	1795	1800	846
35°	1581	1559	1559	1544	1549	988
45°	1271	1260	1254	1250	1248	980
55°	942	940	942	929	927	840
65°	596	614	626	601	582	591
75°	275	300	316	295	268	295
85°	46	61	69	65	61	61
90°	4	11	25	26	25	10
95°	127	446	1363	706	420	133
105°	412	637	2459	3627	3478	434
115°	725	887	2039	3947	4456	716
125°	993	1138	1838	3101	3643	885
135°	1190	1332	1788	2504	2835	920
145°	1384	1488	1764	2143	2307	866
155°	1563	1624	1749	1923	1986	721
165°	1701	1718	1756	1825	1834	479
175°	1766	1764	1758	1781	1777	168
180°	1764	1764	1764	1764	1764	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2108.5	2108.5	2108.5	2108.5	2108.5
2.5°	2120.4	2102.9	2108.5	2103.8	2093.6
5°	2114.1	2090.4	2097.3	2091.7	2088.1
7.5°	2092.5	2070.7	2075.8	2069.8	2067.6
10°	2073.2	2051.4	2056.5	2049.0	2045.3
12.5°	2050.9	2027.6	2032.7	2025.2	2023.0
15°	2011.9	1986.5	1989.6	1985.8	1982.2
17.5°	1966.6	1940.8	1941.3	1935.3	1934.6
20°	1933.9	1906.6	1904.1	1896.8	1900.4
22.5°	1898.2	1869.5	1867.0	1856.7	1861.8
25°	1839.1	1808.2	1805.7	1794.7	1800.1
27.5°	1770.8	1740.2	1740.3	1724.8	1730.6
30°	1720.2	1691.2	1694.2	1675.8	1683.1
32.5°	1666.7	1640.6	1642.2	1623.8	1631.1
35°	1580.9	1559.1	1558.6	1543.9	1549.3
37.5°	1493.2	1474.0	1470.9	1462.4	1463.9
40°	1432.3	1415.9	1410.0	1404.4	1404.4
42.5°	1368.4	1353.5	1347.6	1343.5	1342.0
45°	1270.7	1259.8	1253.9	1250.2	1248.4
47.5°	1174.1	1163.9	1158.8	1156.2	1154.4
50°	1107.2	1099.9	1097.9	1092.3	1090.5
52.5°	1040.3	1036.0	1034.0	1026.9	1025.1
55°	941.9	940.0	941.9	928.8	927.0
57.5°	839.3	842.2	848.2	830.7	826.3
60°	770.9	778.2	785.8	765.2	757.9
62.5°	701.1	712.7	723.4	699.7	689.6
65°	596.3	614.5	626.0	601.4	581.5
67.5°	495.3	517.8	531.7	505.2	482.6
70°	425.4	450.8	466.3	439.7	414.3
72.5°	364.5	392.8	405.3	380.3	354.8
75°	274.9	300.4	315.8	294.8	267.5
77.5°	195.1	219.0	231.8	213.5	191.0
80°	143.0	168.5	178.3	163.1	144.9
82.5°	101.4	122.5	129.3	120.1	107.7
85°	46.4	61.0	68.7	64.9	61.3
87.5°	12.6	24.3	33.2	33.6	34.7
90°	3.8	11.2	24.7	26.5	24.7
92.5°	53.9	196.5	387.7	168.3	121.9
95°	127.2	446.5	1363.2	705.5	419.6
97.5°	204.3	512.1	2124.9	1758.5	1291.4
100°	262.0	538.6	2361.9	2463.2	1991.6
102.5°	315.2	575.4	2445.4	2997.5	2644.8
105°	412.0	636.6	2458.7	3626.8	3478.3
107.5°	501.6	706.6	2351.2	4019.3	4068.7
110°	571.5	757.1	2255.5	4124.7	4334.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	633.8	807.5	2167.5	4103.7	4456.0
115°	725.3	886.8	2039.1	3947.4	4456.0
117.5°	814.9	966.4	1954.4	3708.6	4285.2
120°	869.6	1018.1	1904.3	3537.2	4125.7
122.5°	921.2	1066.7	1873.9	3353.5	3946.4
125°	993.0	1137.8	1837.9	3101.4	3643.4
127.5°	1059.0	1201.2	1816.6	2895.6	3372.3
130°	1095.5	1242.2	1807.5	2768.5	3199.2
132.5°	1133.5	1278.6	1798.4	2653.8	3050.3
135°	1190.4	1331.5	1788.5	2504.2	2834.6
137.5°	1247.8	1381.1	1780.1	2382.8	2652.0
140°	1287.3	1411.6	1777.1	2304.7	2544.1
142.5°	1325.2	1442.2	1771.0	2234.1	2443.9
145°	1384.1	1488.0	1763.8	2143.4	2306.8
147.5°	1437.6	1529.7	1755.5	2061.3	2186.8
150°	1477.1	1558.8	1752.4	2016.7	2116.9
152.5°	1513.6	1584.9	1750.9	1975.3	2057.7
155°	1562.6	1623.8	1748.6	1922.8	1985.9
157.5°	1613.4	1656.1	1749.0	1886.3	1927.8
160°	1642.3	1677.6	1750.5	1863.2	1892.9
162.5°	1665.1	1694.4	1752.0	1844.8	1867.1
165°	1701.2	1717.9	1756.2	1824.8	1834.1
167.5°	1725.8	1737.3	1756.6	1807.6	1812.0
170°	1741.0	1746.6	1758.1	1799.9	1799.9
172.5°	1753.2	1754.3	1758.1	1790.7	1789.2
175°	1765.7	1763.9	1758.1	1780.8	1777.1
177.5°	1769.9	1765.4	1757.7	1772.8	1768.4
180°	1763.8	1763.8	1763.8	1763.8	1763.8

(END OF REPORT)