

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: P565140

Luminaire Tested: **SQ4-PW1-150U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565140
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

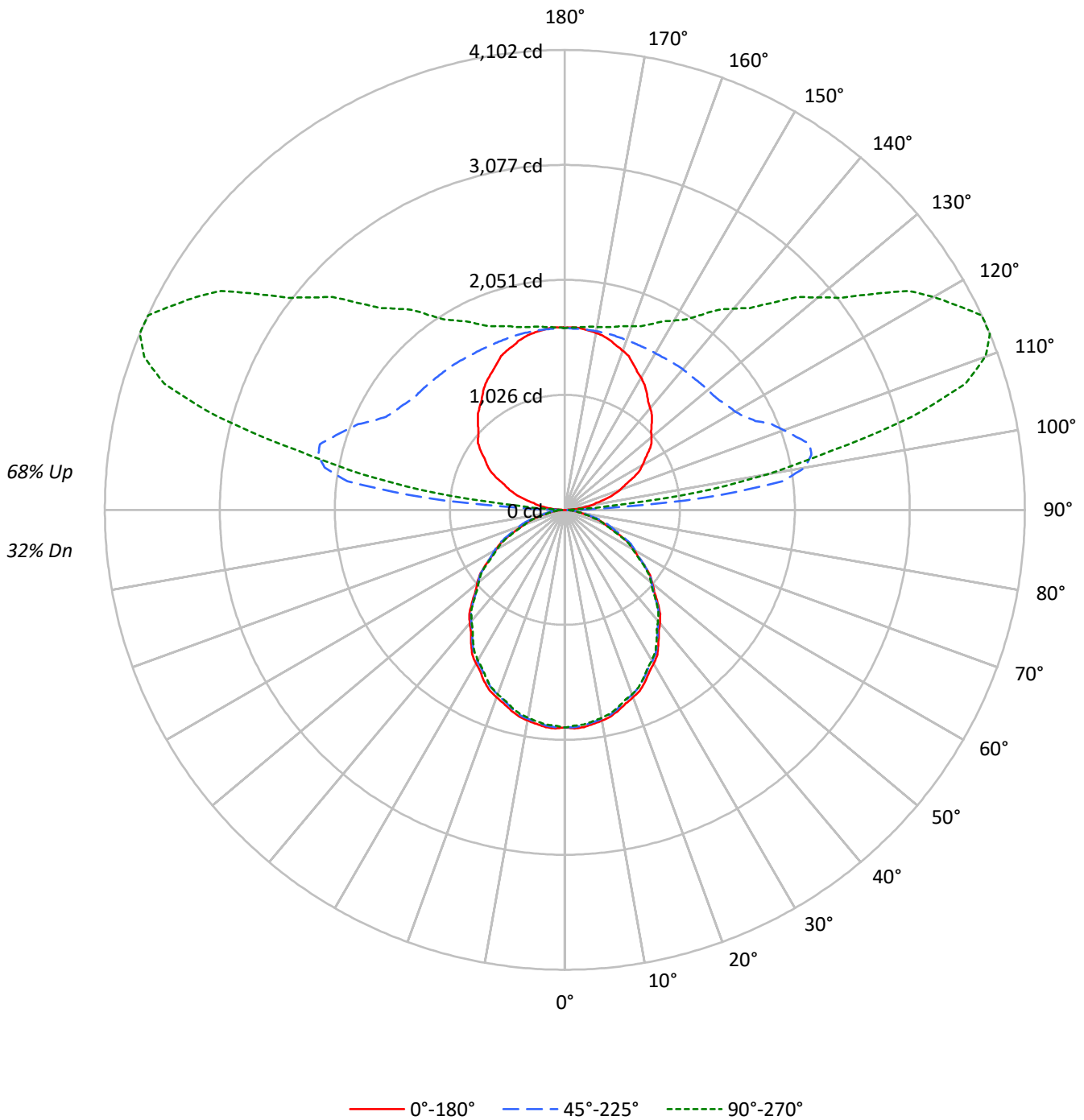
Lumens per Lamp: N/A
Luminaire Lumens: 15410.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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°	8954	8954	8954
5°	9012	8941	8901
10°	8940	8868	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8435
30°	8435	8308	8253
35°	8196	8080	8032
40°	7940	7817	7785
45°	7631	7531	7497
50°	7315	7254	7204
55°	6973	6973	6863
60°	6548	6674	6437
65°	5992	6291	5843
70°	5282	5789	5144
75°	4511	5181	4390
80°	3499	4362	3544
85°	2265	3350	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.2
10°-20°	516.0	3.3
20°-30°	765.4	5.0
30°-40°	895.6	5.8
40°-50°	891.6	5.8
50°-60°	769.9	5.0
60°-70°	554.2	3.6
70°-80°	290.6	1.9
80°-90°	75.4	0.5
90°-100°	754.6	4.9
100°-110°	2040.2	13.2
110°-120°	2145.0	13.9
120°-130°	1742.3	11.3
130°-140°	1366.7	8.9
140°-150°	1049.0	6.8
150°-160°	754.4	4.9
160°-170°	460.8	3.0
170°-180°	155.4	1.0
0°-30°	1464.2	9.5
0°-40°	2359.8	15.3
0°-60°	4021.4	26.1
0°-90°	4941.7	32.1
90°-120°	4939.8	32.1
90°-150°	9097.7	59.0
90°-180°	10468.0	67.9
0°-180°	15410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1946	1924	1931	1926	1922	184
15°	1852	1829	1832	1828	1825	522
25°	1693	1665	1662	1652	1657	778
35°	1455	1435	1435	1421	1426	910
45°	1170	1160	1154	1151	1149	903
55°	867	865	867	855	853	774
65°	549	566	576	554	535	544
75°	253	276	291	271	246	271
85°	43	56	63	60	56	56
90°	4	10	23	24	23	9
95°	117	411	1255	649	386	123
105°	379	586	2263	3339	3202	399
115°	668	816	1877	3634	4102	659
125°	914	1047	1692	2855	3354	815
135°	1096	1226	1646	2305	2609	847
145°	1274	1370	1624	1973	2124	797
155°	1438	1495	1610	1770	1828	663
165°	1566	1581	1617	1680	1688	441
175°	1625	1624	1618	1639	1636	154
180°	1624	1624	1624	1624	1624	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.0	1941.0	1941.0	1941.0	1941.0
2.5°	1951.9	1935.8	1941.0	1936.6	1927.3
5°	1946.1	1924.3	1930.7	1925.5	1922.1
7.5°	1926.2	1906.2	1910.9	1905.3	1903.3
10°	1908.5	1888.4	1893.1	1886.2	1882.8
12.5°	1887.9	1866.5	1871.2	1864.3	1862.3
15°	1852.0	1828.6	1831.5	1828.0	1824.7
17.5°	1810.3	1786.6	1787.0	1781.6	1780.9
20°	1780.2	1755.1	1752.8	1746.1	1749.4
22.5°	1747.4	1721.0	1718.6	1709.2	1713.9
25°	1693.0	1664.6	1662.2	1652.1	1657.1
27.5°	1630.1	1602.0	1602.0	1587.8	1593.1
30°	1583.5	1556.8	1559.6	1542.7	1549.3
32.5°	1534.3	1510.2	1511.7	1494.8	1501.5
35°	1455.3	1435.2	1434.8	1421.2	1426.2
37.5°	1374.6	1356.8	1354.0	1346.2	1347.6
40°	1318.5	1303.4	1298.0	1292.8	1292.8
42.5°	1259.7	1245.9	1240.5	1236.7	1235.4
45°	1169.7	1159.7	1154.3	1150.9	1149.2
47.5°	1080.8	1071.4	1066.8	1064.3	1062.7
50°	1019.2	1012.5	1010.7	1005.5	1003.8
52.5°	957.7	953.6	951.8	945.3	943.6
55°	867.0	865.3	867.0	855.0	853.3
57.5°	772.6	775.3	780.8	764.7	760.6
60°	709.7	716.4	723.4	704.4	697.7
62.5°	645.4	656.1	665.9	644.1	634.8
65°	548.9	565.7	576.3	553.7	535.3
67.5°	455.9	476.6	489.4	465.0	444.3
70°	391.6	415.0	429.2	404.8	381.4
72.5°	335.5	361.6	373.1	350.0	326.6
75°	253.1	276.5	290.7	271.3	246.3
77.5°	179.6	201.6	213.4	196.5	175.8
80°	131.7	155.1	164.2	150.1	133.4
82.5°	93.4	112.8	119.0	110.6	99.2
85°	42.8	56.1	63.3	59.8	56.4
87.5°	11.6	22.4	30.5	30.9	31.9
90°	3.5	10.3	22.7	24.4	22.7
92.5°	49.6	180.9	356.9	154.9	112.2
95°	117.1	411.0	1254.9	649.4	386.3
97.5°	188.1	471.4	1956.1	1618.8	1188.8
100°	241.2	495.8	2174.2	2267.5	1833.4
102.5°	290.1	529.7	2251.1	2759.3	2434.6
105°	379.3	586.0	2263.3	3338.6	3201.9
107.5°	461.8	650.4	2164.4	3700.0	3745.4
110°	526.1	697.0	2076.3	3797.0	3990.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	583.4	743.4	1995.2	3777.6	4102.0
115°	667.6	816.3	1877.1	3633.7	4102.0
117.5°	750.1	889.6	1799.1	3413.9	3944.7
120°	800.5	937.2	1753.0	3256.1	3797.9
122.5°	848.0	982.0	1725.0	3087.0	3632.9
125°	914.1	1047.4	1691.8	2854.9	3353.9
127.5°	974.9	1105.8	1672.2	2665.5	3104.4
130°	1008.5	1143.5	1663.9	2548.5	2945.0
132.5°	1043.4	1177.0	1655.5	2442.9	2807.9
135°	1095.8	1225.7	1646.4	2305.2	2609.4
137.5°	1148.6	1271.3	1638.7	2193.5	2441.3
140°	1185.0	1299.5	1635.9	2121.5	2342.0
142.5°	1219.9	1327.6	1630.3	2056.6	2249.7
145°	1274.1	1369.8	1623.7	1973.1	2123.5
147.5°	1323.4	1408.2	1616.0	1897.5	2013.1
150°	1359.7	1434.9	1613.2	1856.5	1948.7
152.5°	1393.3	1458.9	1611.8	1818.3	1894.2
155°	1438.4	1494.8	1609.7	1770.0	1828.1
157.5°	1485.2	1524.5	1610.0	1736.4	1774.7
160°	1511.8	1544.3	1611.4	1715.2	1742.5
162.5°	1532.8	1559.8	1612.8	1698.2	1718.7
165°	1566.0	1581.4	1616.7	1679.8	1688.3
167.5°	1588.7	1599.3	1617.0	1664.0	1668.1
170°	1602.7	1607.8	1618.4	1656.9	1656.9
172.5°	1613.9	1614.9	1618.4	1648.4	1647.1
175°	1625.4	1623.7	1618.4	1639.3	1635.9
177.5°	1629.3	1625.2	1618.1	1632.0	1627.9
180°	1623.7	1623.7	1623.7	1623.7	1623.7

(END OF REPORT)