

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: P519566

Luminaire Tested: **SQ4-WB-150U-050D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519566
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

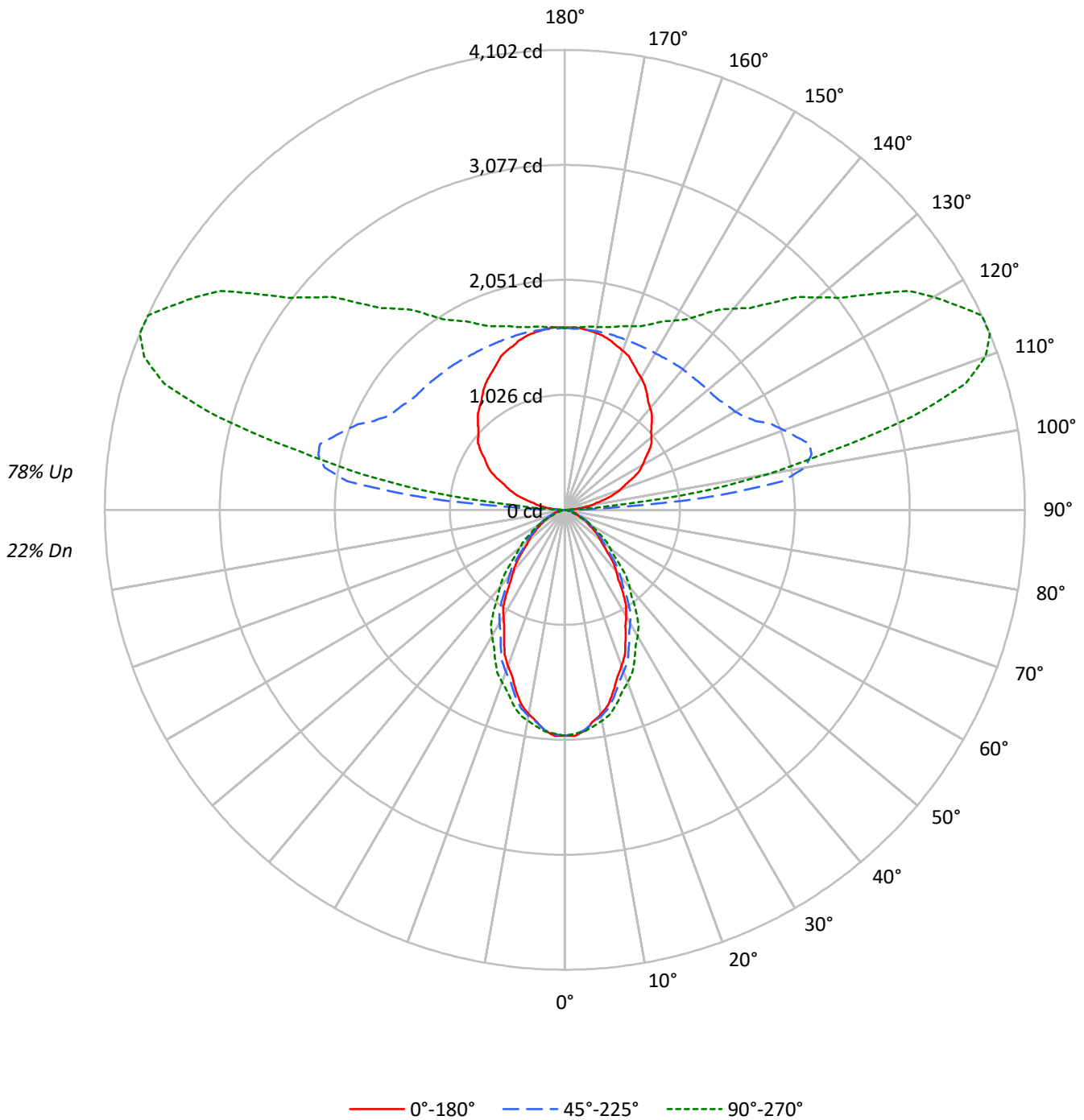
Lumens per Lamp: N/A
Luminaire Lumens: 13405.6 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 111.9
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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	88	84	81	81	78	75	73	60	58	56	43	42	41	27	27	26	19
2	84	77	72	67	74	69	64	60	53	50	47	38	37	35	25	24	23	17
3	77	68	62	56	68	61	56	51	47	43	40	34	32	30	22	21	20	15
4	71	61	54	48	63	54	48	44	42	38	35	31	28	26	20	19	18	13
5	65	54	47	41	57	49	42	38	38	34	30	28	25	23	19	17	16	12
6	60	49	41	36	53	44	37	33	34	30	26	25	23	20	17	16	14	11
7	55	44	37	32	49	40	33	29	31	27	23	23	20	18	16	14	13	10
8	51	40	33	28	46	36	30	25	28	24	21	21	18	16	15	13	12	9
9	48	36	29	25	42	33	27	23	26	22	19	20	17	15	14	12	11	8
10	45	33	27	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9288	9288	9288
5°	9172	9140	9192
10°	8666	8745	8947
15°	8000	8185	8553
20°	7265	7538	8037
25°	6516	6871	7487
30°	5826	6207	6918
35°	5095	5463	6244
40°	4288	4628	5405
45°	3539	3845	4513
50°	2955	3221	3760
55°	2509	2764	3105
60°	2144	2396	2478
65°	1707	2015	1601
70°	1513	1573	977
75°	1401	1276	599
80°	1291	1174	515
85°	1170	1074	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.7	1.4
10°-20°	480.4	3.6
20°-30°	622.2	4.6
30°-40°	609.3	4.5
40°-50°	466.4	3.5
50°-60°	310.8	2.3
60°-70°	169.6	1.3
70°-80°	70.7	0.5
80°-90°	23.4	0.2
90°-100°	754.6	5.6
100°-110°	2040.2	15.2
110°-120°	2145.0	16.0
120°-130°	1742.3	13.0
130°-140°	1366.7	10.2
140°-150°	1049.0	7.8
150°-160°	754.4	5.6
160°-170°	460.8	3.4
170°-180°	155.4	1.2
0°-30°	1287.2	9.6
0°-40°	1896.5	14.1
0°-60°	2673.7	19.9
0°-90°	2937.3	21.9
90°-120°	4939.8	36.8
90°-150°	9097.7	67.9
90°-180°	10468.0	78.1
0°-180°	13405.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2013	2013	2013	2013	2013	
5°	1981	1961	1974	1978	1985	184
15°	1675	1669	1714	1760	1791	468
25°	1280	1284	1350	1409	1471	589
35°	905	909	970	1035	1109	562
45°	542	553	589	634	692	423
55°	312	325	344	357	386	283
65°	156	169	185	161	147	163
75°	79	79	72	49	34	84
85°	22	22	20	13	8	24
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°	2013.4	2013.4	2013.4	2013.4	2013.4
2.5°	2018.4	2000.4	2004.9	2004.8	1999.3
5°	1980.7	1960.9	1973.7	1978.2	1985.1
7.5°	1907.2	1892.2	1915.5	1932.8	1946.8
10°	1850.0	1837.0	1866.8	1891.9	1910.0
12.5°	1783.5	1772.6	1809.5	1843.3	1866.9
15°	1675.0	1669.0	1713.9	1760.5	1790.8
17.5°	1559.0	1556.0	1607.5	1662.0	1700.7
20°	1479.8	1478.9	1535.5	1592.1	1637.1
22.5°	1399.9	1401.8	1461.2	1520.2	1571.3
25°	1280.1	1283.6	1349.9	1408.8	1471.0
27.5°	1169.4	1170.9	1239.5	1301.6	1368.0
30°	1093.7	1098.0	1165.3	1229.6	1298.7
32.5°	1018.1	1023.1	1089.0	1155.4	1225.9
35°	904.7	909.0	970.0	1035.3	1108.7
37.5°	787.7	793.6	847.8	909.5	981.7
40°	712.1	720.7	768.6	826.8	897.6
42.5°	639.3	650.0	694.4	749.6	813.5
45°	542.4	552.8	589.3	633.9	691.8
47.5°	459.0	471.0	499.0	537.4	586.8
50°	411.7	422.9	448.8	477.2	523.9
52.5°	370.0	381.2	404.3	426.2	465.9
55°	311.9	324.8	343.7	356.7	386.1
57.5°	264.2	276.6	291.5	297.4	315.2
60°	232.4	246.2	259.7	259.1	268.6
62.5°	203.4	215.1	228.6	219.3	219.8
65°	156.4	169.3	184.6	161.3	146.7
67.5°	126.3	129.1	144.9	112.5	95.1
70°	112.2	112.2	116.6	87.1	72.4
72.5°	98.8	98.8	94.7	70.9	55.5
75°	78.6	78.6	71.6	49.1	33.6
77.5°	60.6	59.9	54.8	36.6	24.4
80°	48.6	48.6	44.2	28.9	19.4
82.5°	38.0	38.0	34.3	22.6	14.5
85°	22.1	22.1	20.3	13.1	8.0
87.5°	8.5	9.8	11.6	9.1	8.1
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)