

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: P519590

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

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519590  
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-075D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

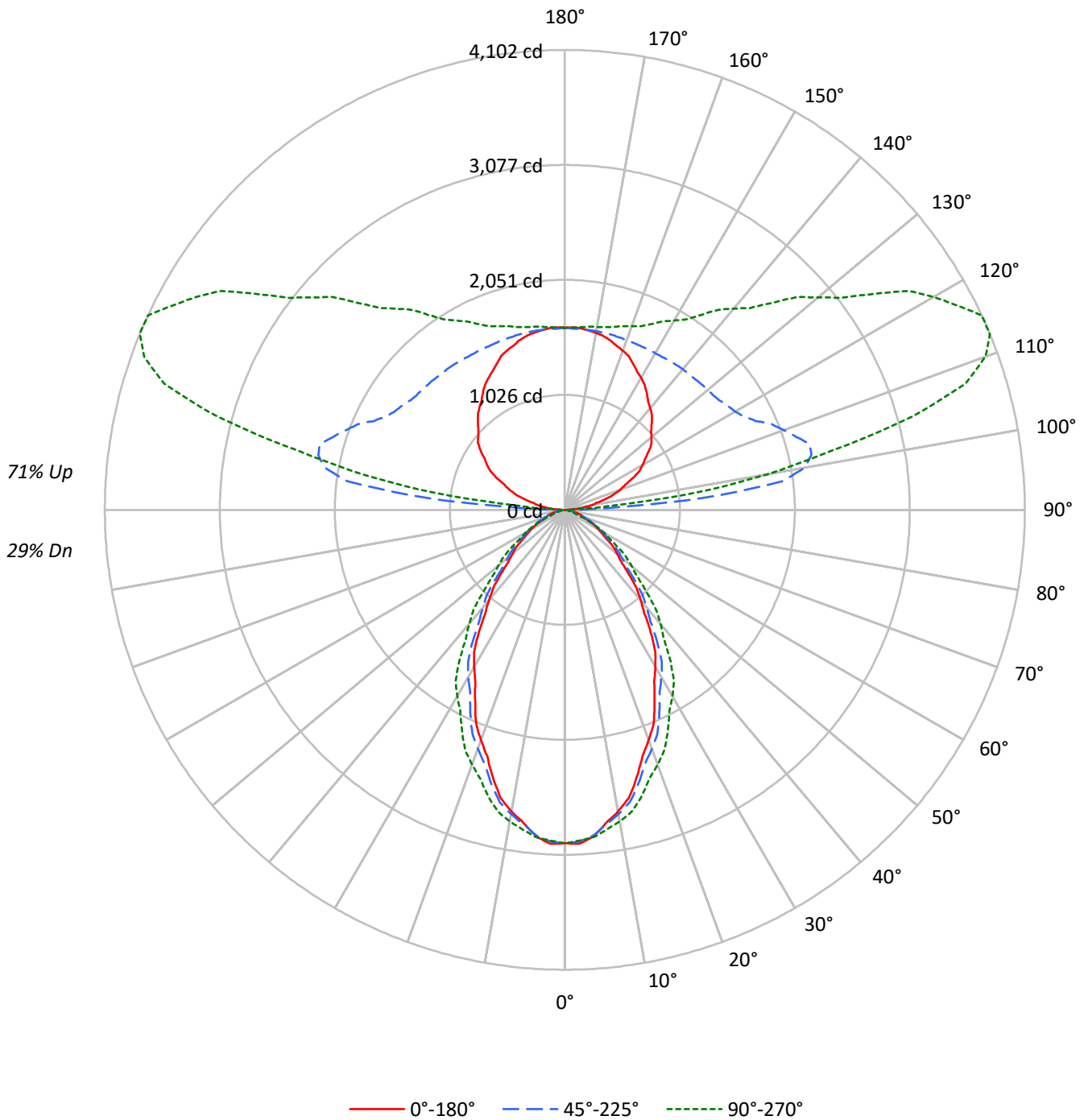
Lumens per Lamp: N/A  
Luminaire Lumens: 14804.7 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	74	69	77	71	67	63	57	54	51	43	41	39	31	29	28	23
3	79	70	64	58	71	63	58	53	51	47	44	39	36	34	28	26	25	20
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	24	22	18
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	26	23	21	20	18	16	13
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	15	16	14	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12915	13214
15°	11814	12089	12631
20°	10729	11133	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7524	8068	9222
40°	6333	6836	7983
45°	5226	5678	6665
50°	4363	4757	5553
55°	3704	4082	4586
60°	3166	3539	3659
65°	2520	2977	2364
70°	2235	2323	1443
75°	2069	1884	884
80°	1907	1732	762
85°	1725	1588	619



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.7	1.8
10°-20°	709.4	4.8
20°-30°	918.9	6.2
30°-40°	899.8	6.1
40°-50°	688.8	4.7
50°-60°	459.0	3.1
60°-70°	250.5	1.7
70°-80°	104.4	0.7
80°-90°	32.9	0.2
90°-100°	754.6	5.1
100°-110°	2040.2	13.8
110°-120°	2145.0	14.5
120°-130°	1742.3	11.8
130°-140°	1366.7	9.2
140°-150°	1049.0	7.1
150°-160°	754.4	5.1
160°-170°	460.8	3.1
170°-180°	155.4	1.0
0°-30°	1901.1	12.8
0°-40°	2800.9	18.9
0°-60°	3948.6	26.7
0°-90°	4336.4	29.3
90°-120°	4939.8	33.4
90°-150°	9097.7	61.5
90°-180°	10468.0	70.7
0°-180°	14804.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2974	2974	2974	2974	2974	
5°	2925	2896	2915	2922	2932	272
15°	2474	2465	2531	2600	2645	691
25°	1891	1896	1994	2081	2172	869
35°	1336	1342	1433	1529	1638	831
45°	801	816	870	936	1022	625
55°	461	480	508	527	570	418
65°	231	250	273	238	217	240
75°	116	116	106	72	50	124
85°	33	33	30	19	12	36
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°	2973.6	2973.6	2973.6	2973.6	2973.6
2.5°	2980.9	2954.3	2961.0	2960.8	2952.7
5°	2925.3	2895.9	2914.8	2921.6	2931.8
7.5°	2816.7	2794.5	2829.0	2854.5	2875.2
10°	2732.2	2713.0	2757.0	2794.1	2820.9
12.5°	2634.1	2618.0	2672.4	2722.3	2757.2
15°	2473.8	2464.9	2531.2	2600.1	2644.8
17.5°	2302.4	2298.0	2374.1	2454.5	2511.7
20°	2185.5	2184.2	2267.7	2351.4	2417.7
22.5°	2067.5	2070.3	2158.1	2245.1	2320.6
25°	1890.6	1895.7	1993.7	2080.6	2172.4
27.5°	1727.0	1729.3	1830.6	1922.3	2020.3
30°	1615.3	1621.7	1721.0	1815.9	1918.0
32.5°	1503.6	1511.0	1608.2	1706.4	1810.5
35°	1336.1	1342.5	1432.6	1529.0	1637.5
37.5°	1163.3	1172.0	1252.0	1343.2	1449.9
40°	1051.6	1064.4	1135.1	1221.0	1325.6
42.5°	944.1	959.9	1025.5	1107.0	1201.4
45°	801.1	816.4	870.3	936.2	1021.6
47.5°	678.0	695.6	736.9	793.6	866.6
50°	608.0	624.6	662.8	704.8	773.7
52.5°	546.4	563.0	597.1	629.4	688.1
55°	460.6	479.7	507.6	526.8	570.2
57.5°	390.1	408.5	430.6	439.3	465.5
60°	343.2	363.6	383.6	382.6	396.6
62.5°	300.4	317.7	337.7	323.9	324.6
65°	230.9	250.1	272.7	238.3	216.6
67.5°	186.6	190.7	214.0	166.2	140.4
70°	165.7	165.7	172.2	128.7	107.0
72.5°	145.9	145.9	139.9	104.6	81.9
75°	116.1	116.1	105.7	72.5	49.6
77.5°	89.5	88.5	80.9	54.1	36.0
80°	71.8	71.8	65.2	42.7	28.7
82.5°	56.1	56.1	50.6	33.4	21.4
85°	32.6	32.6	30.0	19.4	11.7
87.5°	12.2	13.5	15.0	11.1	9.8
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)