

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: P564444

Luminaire Tested: **SQ4-PR1-150U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564444  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-150U-050D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

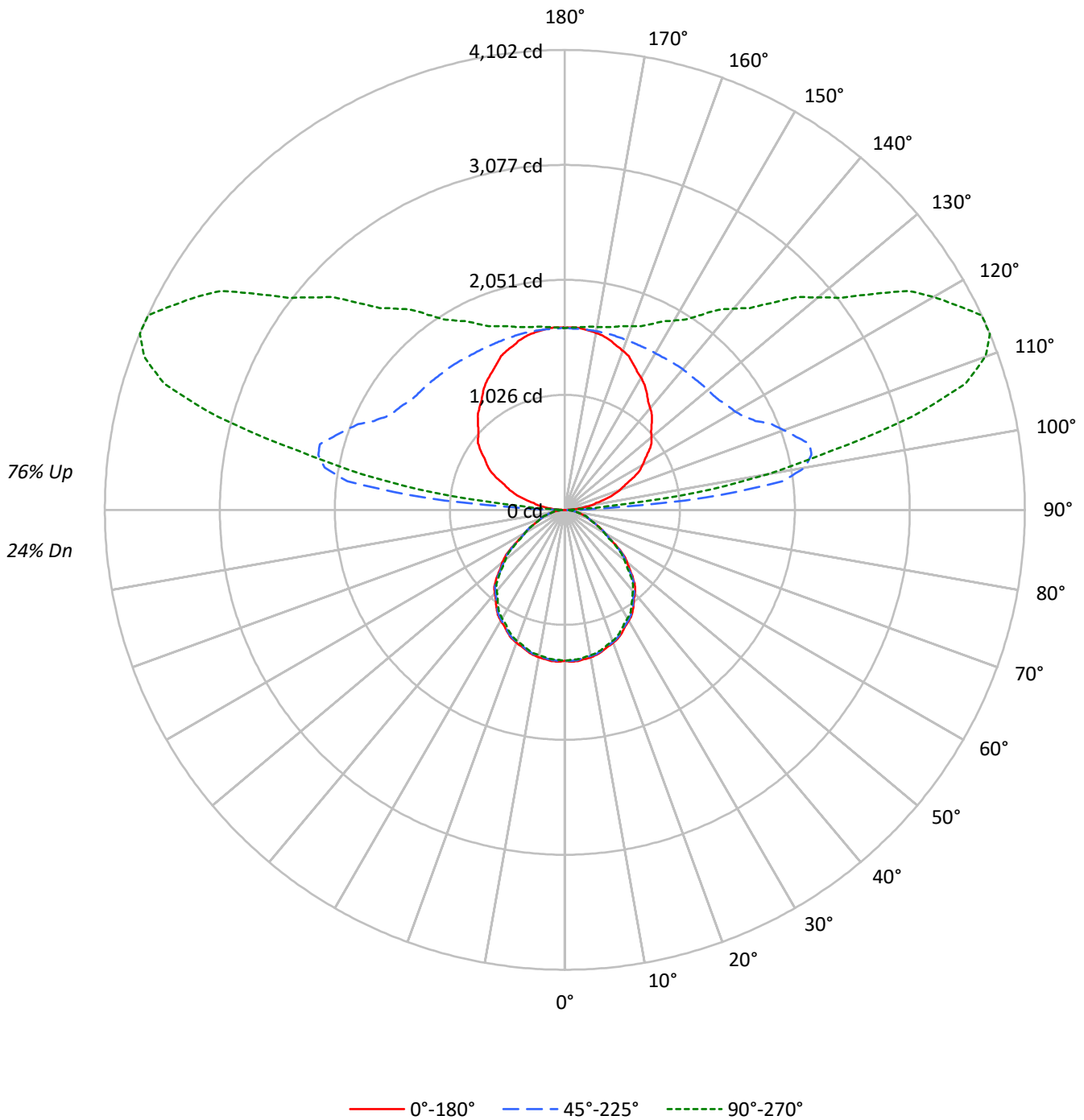
Lumens per Lamp: N/A  
Luminaire Lumens: 13839.2 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	61	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	52	47	62	54	47	42	42	37	34	31	28	25	20	19	17	13
5	64	53	46	40	57	48	41	36	37	33	29	28	24	22	18	17	15	11
6	59	48	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13	10
7	54	43	35	30	48	38	32	27	30	26	22	22	19	17	15	13	12	9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	20	17	19	16	13	13	11	10	7
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9	7

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

	0°	45°	90°
0°	6214	6214	6214
5°	6270	6222	6189
10°	6250	6207	6174
15°	6223	6184	6151
20°	6191	6152	6106
25°	6148	6106	6036
30°	6082	6038	5952
35°	5992	5940	5855
40°	5855	5793	5687
45°	5616	5518	5404
50°	5196	5071	4971
55°	4535	4432	4339
60°	3821	3789	3714
65°	3305	3318	3293
70°	3036	3052	3052
75°	2916	2916	2937
80°	2744	2773	2744
85°	2212	2456	2456



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	0.9
10°-20°	364.5	2.6
20°-30°	549.7	4.0
30°-40°	655.0	4.7
40°-50°	645.8	4.7
50°-60°	493.5	3.6
60°-70°	305.4	2.2
70°-80°	173.5	1.3
80°-90°	56.1	0.4
90°-100°	754.6	5.5
100°-110°	2040.2	14.7
110°-120°	2145.0	15.5
120°-130°	1742.3	12.6
130°-140°	1366.7	9.9
140°-150°	1049.0	7.6
150°-160°	754.4	5.5
160°-170°	460.8	3.3
170°-180°	155.4	1.1
0°-30°	1041.6	7.5
0°-40°	1696.6	12.3
0°-60°	2835.9	20.5
0°-90°	3370.9	24.4
90°-120°	4939.8	35.7
90°-150°	9097.7	65.7
90°-180°	10468.0	75.6
0°-180°	13839.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1354	1339	1344	1339	1337	128
15°	1303	1289	1295	1290	1288	368
25°	1208	1193	1200	1187	1186	556
35°	1064	1052	1055	1041	1040	664
45°	861	850	846	831	828	660
55°	564	555	551	542	540	505
65°	303	301	304	302	302	307
75°	164	164	164	165	165	173
85°	42	44	46	46	46	49
90°	4	10	23	24	23	10
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°	1347.1	1347.1	1347.1	1347.1	1347.1
2.5°	1355.4	1343.6	1347.1	1344.1	1337.8
5°	1354.0	1339.3	1343.6	1338.9	1336.6
7.5°	1343.6	1329.1	1333.4	1328.7	1327.3
10°	1334.3	1320.7	1325.0	1320.3	1318.1
12.5°	1324.1	1309.6	1314.8	1309.2	1306.9
15°	1303.0	1289.4	1294.8	1290.2	1287.9
17.5°	1279.8	1265.2	1270.7	1265.3	1262.4
20°	1261.2	1247.6	1253.1	1244.9	1243.8
22.5°	1240.8	1227.2	1232.7	1221.7	1221.5
25°	1207.8	1193.1	1199.7	1186.9	1185.8
27.5°	1168.6	1155.0	1160.5	1147.5	1146.1
30°	1141.7	1128.1	1133.6	1119.6	1117.3
32.5°	1111.1	1098.4	1102.9	1089.0	1087.6
35°	1064.0	1051.5	1054.7	1040.7	1039.6
37.5°	1010.4	999.0	1000.8	985.5	984.4
40°	972.3	961.0	961.9	945.6	944.4
42.5°	930.5	919.2	918.2	902.0	900.8
45°	860.9	849.6	845.8	830.7	828.4
47.5°	781.5	770.2	763.2	750.9	749.3
50°	724.0	712.7	706.6	696.1	692.7
52.5°	661.8	650.5	645.3	635.7	632.3
55°	563.9	554.8	551.1	541.8	539.5
57.5°	470.8	464.7	463.6	454.6	453.7
60°	414.2	410.8	410.7	402.6	402.6
62.5°	365.9	363.4	365.2	359.9	359.0
65°	302.8	300.6	304.0	301.7	301.7
67.5°	252.9	252.9	255.0	254.1	254.1
70°	225.1	225.1	226.3	226.3	226.3
72.5°	200.0	199.1	202.1	202.1	201.2
75°	163.6	163.6	163.6	164.8	164.8
77.5°	127.4	127.6	128.6	128.3	127.4
80°	103.3	104.4	104.4	103.3	103.3
82.5°	79.1	80.3	80.3	80.0	79.1
85°	41.8	44.0	46.4	46.4	46.4
87.5°	12.8	17.8	23.1	23.4	22.2
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)