

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: P563772

Luminaire Tested: **SQ4-PP3-150U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563772  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-150U-050D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

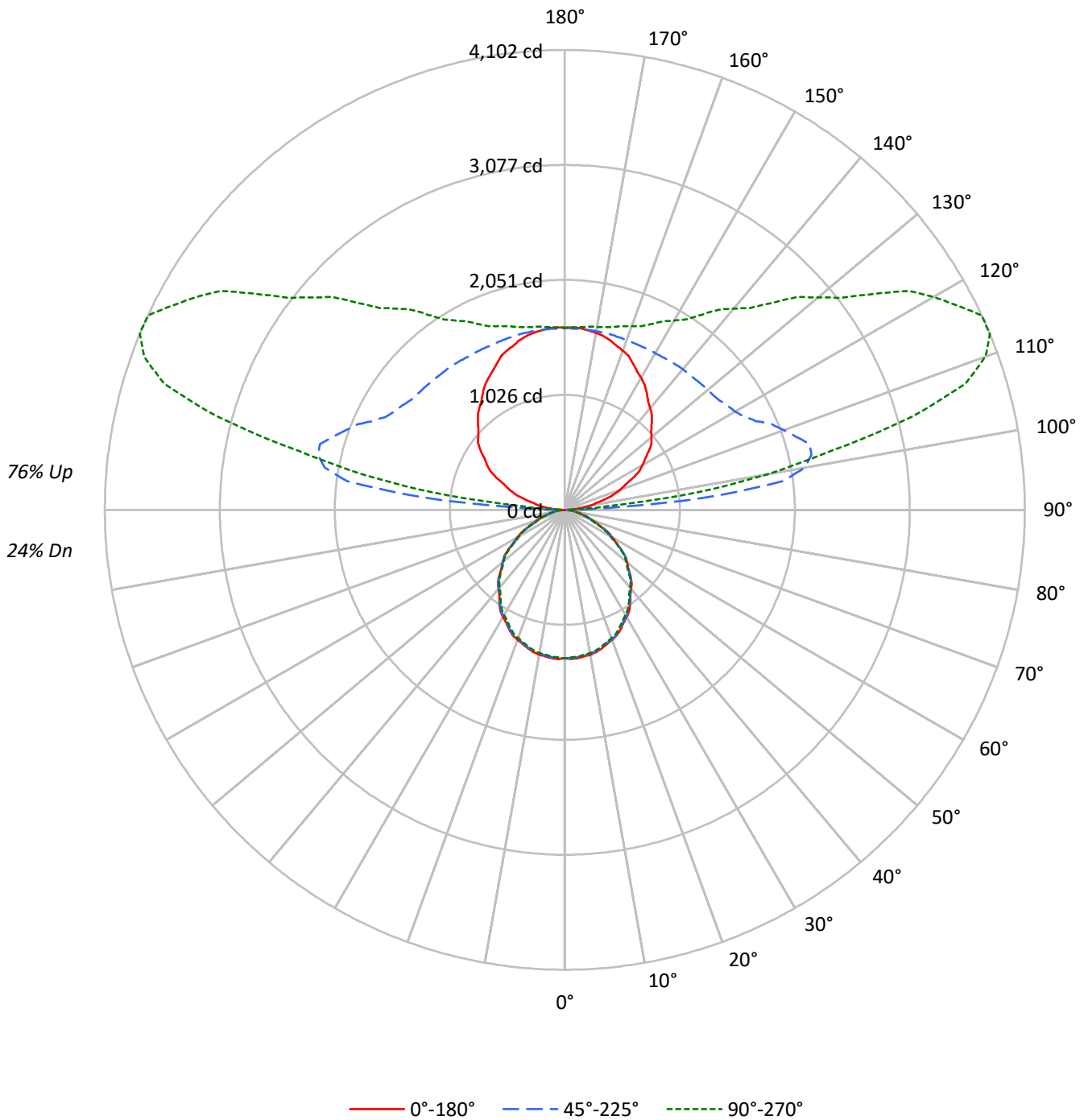
Lumens per Lamp: N/A  
Luminaire Lumens: 13859.2 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

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	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	74	69	64	60	53	50	47	39	37	35	26	24	23	18				
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15				
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13				
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11				
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10				
7	54	43	35	30	48	38	32	27	30	25	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	10	8				
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7				
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				

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

	0°	45°	90°
0°	6105	6105	6105
5°	6151	6113	6091
10°	6140	6097	6069
15°	6099	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5540	5505	5441
45°	5388	5350	5297
50°	5195	5161	5111
55°	4926	4861	4823
60°	4484	4356	4334
65°	3950	3786	3773
70°	3411	3269	3269
75°	2936	2895	2854
80°	2588	2619	2558
85°	2027	2212	2212



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	0.9
10°-20°	357.4	2.6
20°-30°	535.3	3.9
30°-40°	627.8	4.5
40°-50°	629.8	4.5
50°-60°	537.3	3.9
60°-70°	350.4	2.5
70°-80°	175.8	1.3
80°-90°	52.0	0.4
90°-100°	754.6	5.4
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	5.4
160°-170°	460.8	3.3
170°-180°	155.4	1.1
0°-30°	1017.8	7.3
0°-40°	1645.6	11.9
0°-60°	2812.7	20.3
0°-90°	3390.9	24.5
90°-120°	4939.8	35.6
90°-150°	9097.7	65.6
90°-180°	10468.0	75.5
0°-180°	13859.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1328	1316	1320	1315	1315	126
15°	1277	1265	1270	1266	1263	360
25°	1176	1163	1168	1158	1156	541
35°	1016	1006	1009	998	996	635
45°	826	820	820	812	812	636
55°	612	610	604	601	600	544
65°	362	355	347	344	346	361
75°	165	165	162	161	160	179
85°	38	42	42	42	42	45
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°	1323.5	1323.5	1323.5	1323.5	1323.5
2.5°	1331.9	1321.0	1323.5	1321.6	1316.1
5°	1328.2	1315.7	1320.1	1315.4	1315.4
7.5°	1319.1	1305.5	1309.9	1305.2	1305.0
10°	1310.8	1297.2	1301.5	1296.8	1295.7
12.5°	1298.7	1285.1	1290.4	1284.8	1284.6
15°	1277.1	1264.7	1270.2	1265.5	1263.2
17.5°	1252.8	1239.2	1245.8	1239.3	1238.4
20°	1234.2	1220.6	1227.3	1218.0	1218.0
22.5°	1212.0	1198.3	1205.9	1193.9	1193.9
25°	1176.2	1162.6	1168.1	1157.6	1156.5
27.5°	1133.8	1120.4	1126.1	1114.3	1114.0
30°	1103.1	1090.7	1097.3	1084.6	1083.4
32.5°	1069.7	1058.2	1063.0	1050.2	1049.1
35°	1016.1	1005.9	1009.2	997.6	996.4
37.5°	959.8	949.3	953.0	943.1	942.6
40°	919.9	913.1	914.1	905.9	903.6
42.5°	882.7	875.0	876.0	867.9	867.4
45°	825.9	820.2	820.1	812.0	812.0
47.5°	765.6	761.3	760.0	753.3	753.1
50°	723.8	720.4	719.2	713.4	712.2
52.5°	680.2	678.6	674.6	669.8	669.5
55°	612.5	610.2	604.4	600.8	599.7
57.5°	538.9	534.4	527.8	522.7	523.6
60°	486.0	481.5	472.1	469.8	469.8
62.5°	435.0	429.6	420.1	416.9	418.8
65°	361.9	355.1	346.8	344.5	345.7
67.5°	295.6	289.4	280.5	280.5	279.6
70°	252.9	249.5	242.4	242.4	242.4
72.5°	214.8	213.2	208.1	208.1	207.2
75°	164.7	164.7	162.4	161.2	160.1
77.5°	123.4	123.9	122.7	121.5	119.5
80°	97.4	99.7	98.6	97.4	96.3
82.5°	73.3	75.6	75.4	73.3	73.1
85°	38.3	41.7	41.8	41.8	41.8
87.5°	10.9	15.9	19.4	19.8	20.3
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)