

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: P563819

Luminaire Tested: **SQ4-PP3-150U-100D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563819  
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-100D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

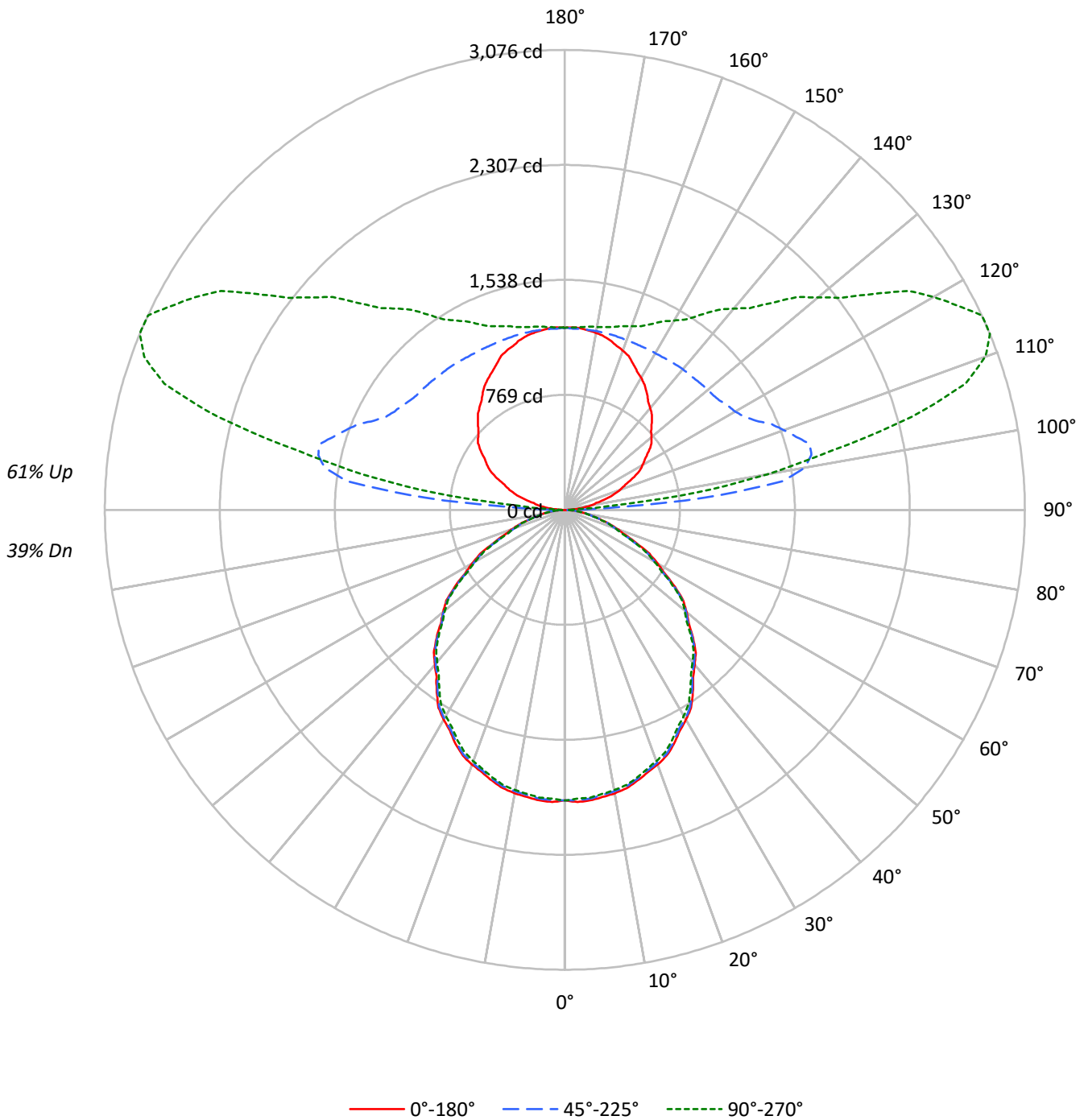
Lumens per Lamp: N/A  
Luminaire Lumens: 12829.3 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 112.7  
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	11957	11957	11957
5°	12045	11971	11929
10°	12024	11939	11886
15°	11945	11880	11815
20°	11866	11799	11709
25°	11725	11644	11528
30°	11508	11447	11302
35°	11207	11130	10989
40°	10848	10780	10656
45°	10552	10477	10374
50°	10173	10108	10010
55°	9647	9519	9445
60°	8782	8530	8488
65°	7737	7414	7389
70°	6679	6404	6404
75°	5749	5668	5587
80°	5069	5129	5009
85°	3966	4326	4326



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	1.4
10°-20°	524.9	4.1
20°-30°	786.2	6.1
30°-40°	922.2	7.2
40°-50°	925.0	7.2
50°-60°	789.1	6.2
60°-70°	514.7	4.0
70°-80°	258.2	2.0
80°-90°	74.0	0.6
90°-100°	565.9	4.4
100°-110°	1530.2	11.9
110°-120°	1608.7	12.5
120°-130°	1306.7	10.2
130°-140°	1025.0	8.0
140°-150°	786.7	6.1
150°-160°	565.8	4.4
160°-170°	345.6	2.7
170°-180°	116.5	0.9
0°-30°	1494.9	11.7
0°-40°	2417.0	18.8
0°-60°	4131.2	32.2
0°-90°	4978.0	38.8
90°-120°	3704.8	28.9
90°-150°	6823.3	53.2
90°-180°	7851.0	61.2
0°-180°	12829.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1951	1932	1939	1932	1932	185
15°	1876	1858	1866	1859	1855	529
25°	1728	1708	1716	1700	1699	794
35°	1492	1478	1482	1465	1464	932
45°	1213	1205	1204	1193	1193	934
55°	900	896	888	882	881	799
65°	532	522	509	506	508	531
75°	242	242	238	237	235	262
85°	56	61	61	61	61	66
90°	3	8	17	18	17	8
95°	88	308	941	487	290	92
105°	284	440	1698	2504	2401	300
115°	501	612	1408	2725	3076	494
125°	686	786	1269	2141	2515	611
135°	822	919	1235	1729	1957	635
145°	956	1027	1218	1480	1593	598
155°	1079	1121	1207	1328	1371	498
165°	1174	1186	1212	1260	1266	331
175°	1219	1218	1214	1230	1227	116
180°	1218	1218	1218	1218	1218	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1944.0	1944.0	1944.0	1944.0	1944.0
2.5°	1956.2	1940.2	1944.0	1941.1	1933.1
5°	1950.8	1932.5	1938.9	1932.0	1932.0
7.5°	1937.5	1917.5	1923.9	1917.0	1916.7
10°	1925.2	1905.2	1911.6	1904.8	1903.1
12.5°	1907.5	1887.5	1895.2	1887.1	1886.7
15°	1875.8	1857.5	1865.6	1858.7	1855.4
17.5°	1840.0	1820.1	1829.8	1820.3	1818.9
20°	1812.8	1792.8	1802.6	1788.9	1788.9
22.5°	1780.1	1760.1	1771.2	1753.5	1753.5
25°	1727.6	1707.6	1715.7	1700.3	1698.6
27.5°	1665.2	1645.6	1654.0	1636.6	1636.3
30°	1620.3	1601.9	1611.7	1593.0	1591.3
32.5°	1571.2	1554.2	1561.3	1542.5	1540.9
35°	1492.5	1477.5	1482.3	1465.2	1463.5
37.5°	1409.7	1394.4	1399.8	1385.1	1384.5
40°	1351.1	1341.1	1342.6	1330.6	1327.2
42.5°	1296.6	1285.2	1286.7	1274.7	1274.1
45°	1213.1	1204.7	1204.5	1192.6	1192.6
47.5°	1124.5	1118.1	1116.3	1106.4	1106.1
50°	1063.1	1058.1	1056.3	1047.8	1046.1
52.5°	999.1	996.7	990.9	983.7	983.4
55°	899.6	896.2	887.7	882.5	880.8
57.5°	791.6	784.9	775.2	767.7	769.1
60°	713.9	707.2	693.4	690.0	690.0
62.5°	638.9	630.9	617.1	612.4	615.1
65°	531.6	521.6	509.4	506.1	507.7
67.5°	434.1	425.1	412.0	411.9	410.6
70°	371.4	366.4	356.1	356.1	356.1
72.5°	315.5	313.2	305.7	305.6	304.3
75°	241.9	241.9	238.5	236.8	235.1
77.5°	181.3	181.9	180.3	178.5	175.5
80°	143.1	146.4	144.8	143.1	141.4
82.5°	107.7	111.0	110.7	107.7	107.3
85°	56.2	61.2	61.3	61.3	61.3
87.5°	15.5	21.9	25.2	25.5	26.6
90°	2.6	7.7	17.0	18.3	17.0
92.5°	37.2	135.7	267.7	116.2	84.2
95°	87.8	308.3	941.2	487.1	289.7
97.5°	141.0	353.5	1467.1	1214.1	891.6
100°	180.9	371.9	1630.7	1700.6	1375.0
102.5°	217.6	397.3	1688.3	2069.5	1826.0
105°	284.4	439.5	1697.5	2503.9	2401.4
107.5°	346.3	487.8	1623.3	2775.0	2809.1
110°	394.6	522.7	1557.2	2847.8	2992.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	437.5	557.5	1496.4	2833.2	3076.5
115°	500.7	612.2	1407.8	2725.3	3076.5
117.5°	562.6	667.2	1349.4	2560.4	2958.5
120°	600.4	702.9	1314.7	2442.1	2848.4
122.5°	636.0	736.5	1293.8	2315.3	2724.7
125°	685.6	785.5	1268.9	2141.2	2515.4
127.5°	731.2	829.3	1254.2	1999.1	2328.3
130°	756.3	857.6	1247.9	1911.4	2208.7
132.5°	782.6	882.8	1241.6	1832.2	2106.0
135°	821.9	919.3	1234.8	1728.9	1957.0
137.5°	861.5	953.5	1229.0	1645.1	1830.9
140°	888.7	974.6	1226.9	1591.2	1756.5
142.5°	914.9	995.7	1222.7	1542.4	1687.3
145°	955.6	1027.4	1217.7	1479.8	1592.6
147.5°	992.5	1056.1	1212.0	1423.2	1509.8
150°	1019.8	1076.2	1209.9	1392.3	1461.6
152.5°	1045.0	1094.2	1208.8	1363.8	1420.7
155°	1078.8	1121.1	1207.3	1327.5	1371.1
157.5°	1113.9	1143.4	1207.5	1302.3	1331.0
160°	1133.9	1158.2	1208.6	1286.4	1306.9
162.5°	1149.6	1169.8	1209.6	1273.7	1289.1
165°	1174.5	1186.0	1212.5	1259.8	1266.2
167.5°	1191.5	1199.5	1212.8	1248.0	1251.0
170°	1202.0	1205.9	1213.8	1242.7	1242.7
172.5°	1210.4	1211.2	1213.8	1236.3	1235.3
175°	1219.1	1217.8	1213.8	1229.5	1226.9
177.5°	1221.9	1218.9	1213.6	1224.0	1220.9
180°	1217.7	1217.7	1217.7	1217.7	1217.7

(END OF REPORT)