

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: P564467

Luminaire Tested: **SQ4-PR1-150U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564467  
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-075D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

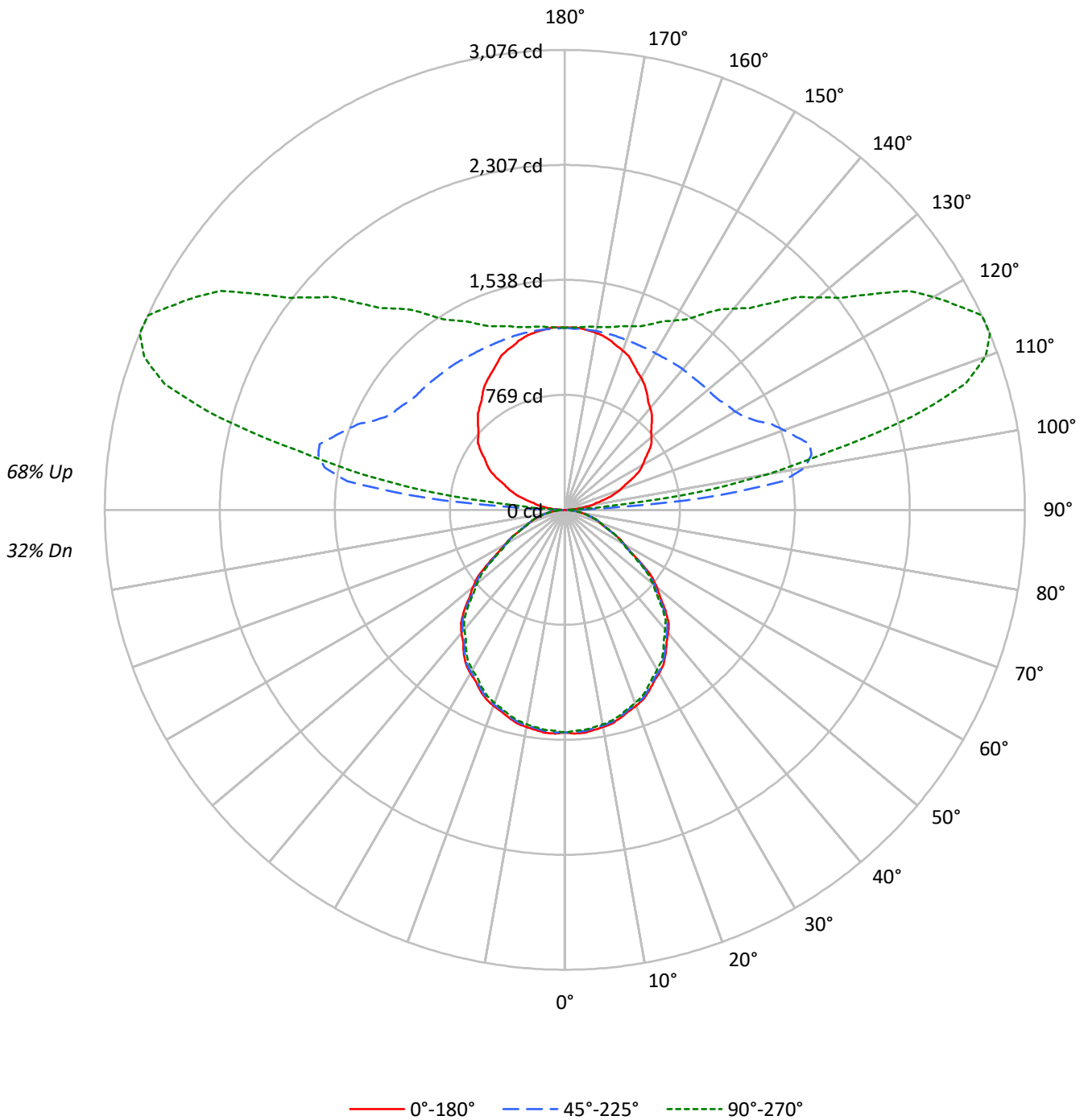
Lumens per Lamp: N/A  
Luminaire Lumens: 11576.3 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 97.8  
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

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

	0°	45°	90°
0°	9159	9159	9159
5°	9242	9170	9123
10°	9212	9148	9100
15°	9172	9114	9065
20°	9125	9067	8999
25°	9061	9000	8896
30°	8963	8900	8772
35°	8831	8754	8629
40°	8630	8537	8383
45°	8278	8133	7966
50°	7658	7474	7327
55°	6684	6533	6396
60°	5633	5585	5474
65°	4871	4890	4854
70°	4474	4498	4498
75°	4297	4297	4328
80°	4042	4088	4042
85°	3260	3620	3620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.8	1.2
10°-20°	402.9	3.5
20°-30°	607.7	5.2
30°-40°	724.0	6.3
40°-50°	713.8	6.2
50°-60°	545.6	4.7
60°-70°	337.6	2.9
70°-80°	191.7	1.7
80°-90°	60.9	0.5
90°-100°	565.9	4.9
100°-110°	1530.2	13.2
110°-120°	1608.7	13.9
120°-130°	1306.7	11.3
130°-140°	1025.0	8.9
140°-150°	786.7	6.8
150°-160°	565.8	4.9
160°-170°	345.6	3.0
170°-180°	116.5	1.0
0°-30°	1151.4	9.9
0°-40°	1875.4	16.2
0°-60°	3134.8	27.1
0°-90°	3725.0	32.2
90°-120°	3704.8	32.0
90°-150°	6823.3	58.9
90°-180°	7851.0	67.8
0°-180°	11576.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1497	1480	1485	1480	1478	142
15°	1440	1425	1431	1426	1424	406
25°	1335	1319	1326	1312	1311	614
35°	1176	1162	1166	1150	1149	734
45°	952	939	935	918	916	729
55°	623	613	609	599	596	559
65°	335	332	336	334	334	339
75°	181	181	181	182	182	191
85°	46	49	51	51	51	54
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°	1489.1	1489.1	1489.1	1489.1	1489.1
2.5°	1498.3	1485.2	1489.1	1485.8	1478.8
5°	1496.8	1480.4	1485.2	1480.0	1477.5
7.5°	1485.2	1469.2	1473.9	1468.8	1467.3
10°	1474.9	1459.9	1464.7	1459.5	1457.0
12.5°	1463.7	1447.6	1453.4	1447.2	1444.7
15°	1440.3	1425.3	1431.3	1426.2	1423.6
17.5°	1414.7	1398.6	1404.7	1398.7	1395.4
20°	1394.1	1379.1	1385.2	1376.2	1374.9
22.5°	1371.6	1356.5	1362.6	1350.5	1350.3
25°	1335.1	1318.8	1326.2	1312.0	1310.8
27.5°	1291.8	1276.7	1282.8	1268.4	1266.9
30°	1262.0	1247.0	1253.1	1237.6	1235.1
32.5°	1228.2	1214.1	1219.2	1203.8	1202.3
35°	1176.1	1162.3	1165.9	1150.4	1149.2
37.5°	1116.9	1104.3	1106.3	1089.4	1088.1
40°	1074.8	1062.2	1063.2	1045.3	1044.0
42.5°	1028.6	1016.1	1015.0	997.0	995.8
45°	951.7	939.1	935.0	918.3	915.8
47.5°	863.9	851.4	843.7	830.0	828.3
50°	800.3	787.8	781.1	769.5	765.7
52.5°	731.6	719.0	713.4	702.8	699.0
55°	623.3	613.3	609.2	598.9	596.4
57.5°	520.5	513.7	512.5	502.5	501.5
60°	457.9	454.1	454.0	445.0	445.0
62.5°	404.5	401.8	403.8	397.8	396.8
65°	334.7	332.2	336.0	333.5	333.5
67.5°	279.6	279.6	281.9	280.9	280.9
70°	248.8	248.8	250.1	250.1	250.1
72.5°	221.1	220.1	223.4	223.4	222.4
75°	180.8	180.8	180.8	182.1	182.1
77.5°	140.8	141.1	142.1	141.8	140.8
80°	114.1	115.4	115.4	114.1	114.1
82.5°	87.5	88.7	88.8	88.5	87.5
85°	46.2	48.7	51.3	51.3	51.3
87.5°	13.9	18.9	23.9	24.2	22.9
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)