

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: P563373

Luminaire Tested: **SQ4-PP3-075U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563373  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-050D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

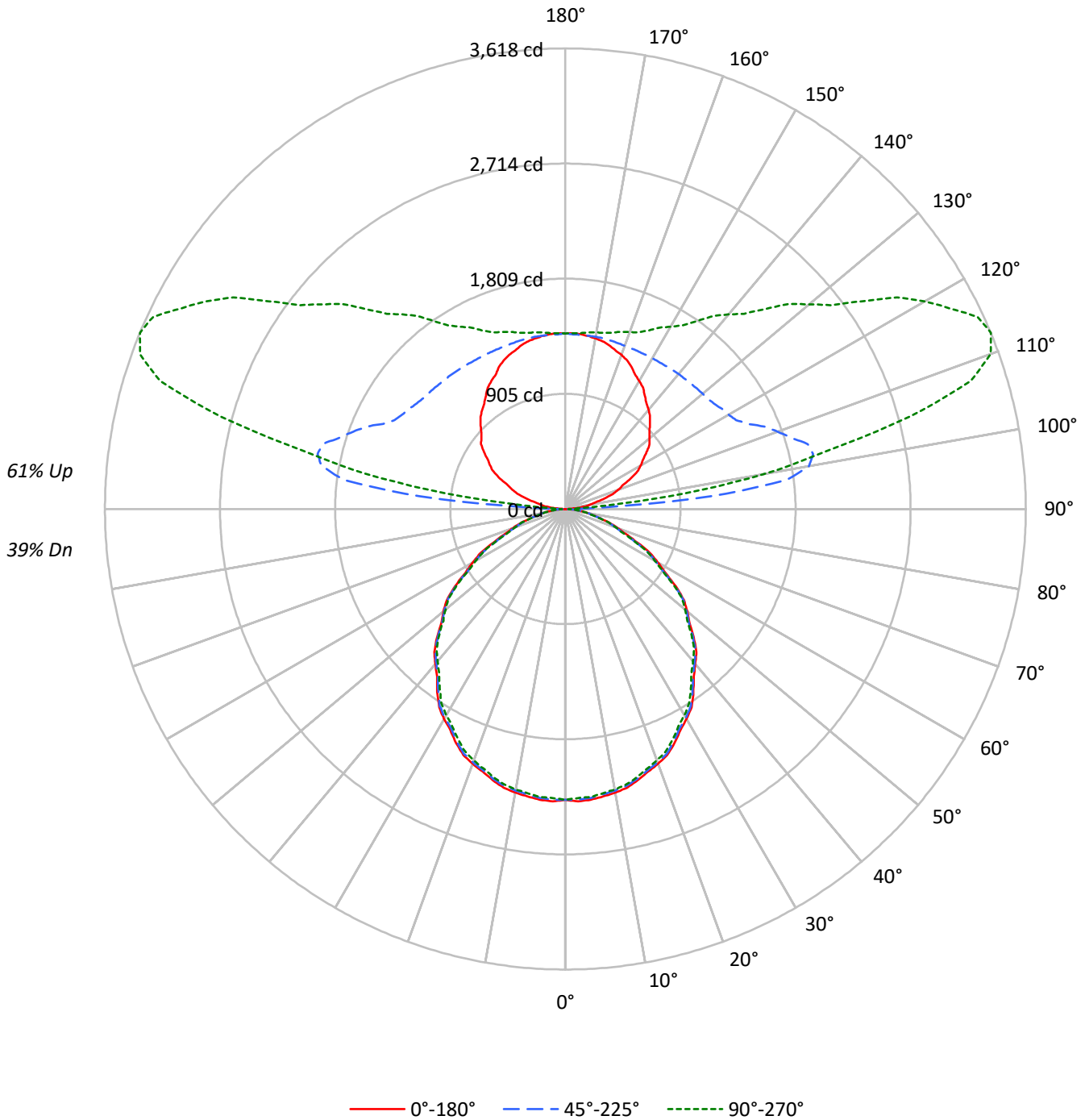
Lumens per Lamp: N/A  
Luminaire Lumens: 14832.9 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 107.4  
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7011
10°	7067	7016	6985
15°	7020	6982	6943
20°	6973	6934	6881
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5979	5940	5883
55°	5669	5594	5551
60°	5161	5013	4988
65°	4547	4357	4343
70°	3926	3763	3763
75°	3379	3332	3283
80°	2979	3014	2943
85°	2332	2544	2544



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.1	1.5
10°-20°	616.9	4.2
20°-30°	924.1	6.2
30°-40°	1083.9	7.3
40°-50°	1087.3	7.3
50°-60°	927.5	6.3
60°-70°	604.9	4.1
70°-80°	303.5	2.0
80°-90°	87.5	0.6
90°-100°	650.2	4.4
100°-110°	1789.0	12.1
110°-120°	1846.5	12.4
120°-130°	1479.4	10.0
130°-140°	1162.0	7.8
140°-150°	890.5	6.0
150°-160°	640.2	4.3
160°-170°	391.5	2.6
170°-180°	132.0	0.9
0°-30°	1757.0	11.8
0°-40°	2840.9	19.2
0°-60°	4855.7	32.7
0°-90°	5851.6	39.4
90°-120°	4285.7	28.9
90°-150°	7817.7	52.7
90°-180°	8981.0	60.5
0°-180°	14832.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2285	2285	2285	2285	2285	
5°	2293	2271	2279	2271	2271	218
15°	2205	2183	2193	2185	2181	622
25°	2031	2007	2016	1998	1996	934
35°	1754	1737	1742	1722	1720	1096
45°	1426	1416	1416	1402	1402	1098
55°	1057	1053	1043	1037	1035	940
65°	625	613	599	595	597	624
75°	284	284	280	278	276	309
85°	66	72	72	72	72	78
90°	3	12	20	26	26	9
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2284.9	2284.9	2284.9	2284.9	2284.9
2.5°	2299.3	2280.5	2284.9	2281.5	2272.1
5°	2292.9	2271.4	2278.9	2270.9	2270.9
7.5°	2277.3	2253.8	2261.2	2253.2	2252.8
10°	2262.9	2239.4	2246.8	2238.8	2236.8
12.5°	2242.0	2218.5	2227.6	2218.0	2217.6
15°	2204.8	2183.2	2192.8	2184.7	2180.7
17.5°	2162.7	2139.2	2150.7	2139.5	2137.9
20°	2130.7	2107.2	2118.7	2102.6	2102.6
22.5°	2092.2	2068.7	2081.8	2061.0	2061.0
25°	2030.6	2007.1	2016.5	1998.5	1996.5
27.5°	1957.3	1934.2	1944.0	1923.6	1923.2
30°	1904.4	1882.9	1894.4	1872.3	1870.4
32.5°	1846.7	1826.8	1835.1	1813.0	1811.1
35°	1754.2	1736.6	1742.2	1722.1	1720.2
37.5°	1656.9	1638.9	1645.3	1628.0	1627.3
40°	1588.0	1576.3	1578.0	1563.9	1560.0
42.5°	1523.9	1510.6	1512.3	1498.3	1497.5
45°	1425.8	1416.0	1415.8	1401.8	1401.8
47.5°	1321.7	1314.2	1312.1	1300.4	1300.0
50°	1249.6	1243.7	1241.6	1231.5	1229.5
52.5°	1174.3	1171.5	1164.7	1156.2	1155.9
55°	1057.3	1053.4	1043.3	1037.3	1035.3
57.5°	930.4	922.5	911.1	902.4	903.9
60°	839.1	831.2	815.0	811.0	811.0
62.5°	750.9	741.5	725.3	719.8	722.9
65°	624.8	613.0	598.8	594.8	596.8
67.5°	510.2	499.7	484.2	484.2	482.6
70°	436.6	430.7	418.5	418.5	418.5
72.5°	370.9	368.1	359.3	359.2	357.7
75°	284.4	284.4	280.4	278.3	276.3
77.5°	213.1	213.9	211.9	209.8	206.3
80°	168.2	172.1	170.2	168.2	166.2
82.5°	126.6	130.5	130.2	126.6	126.2
85°	66.1	72.0	72.1	72.1	72.1
87.5°	18.2	26.2	29.7	30.9	32.5
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)