

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: P563281

Luminaire Tested: **SQ4-PP3-050U-050D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563281  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-050D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

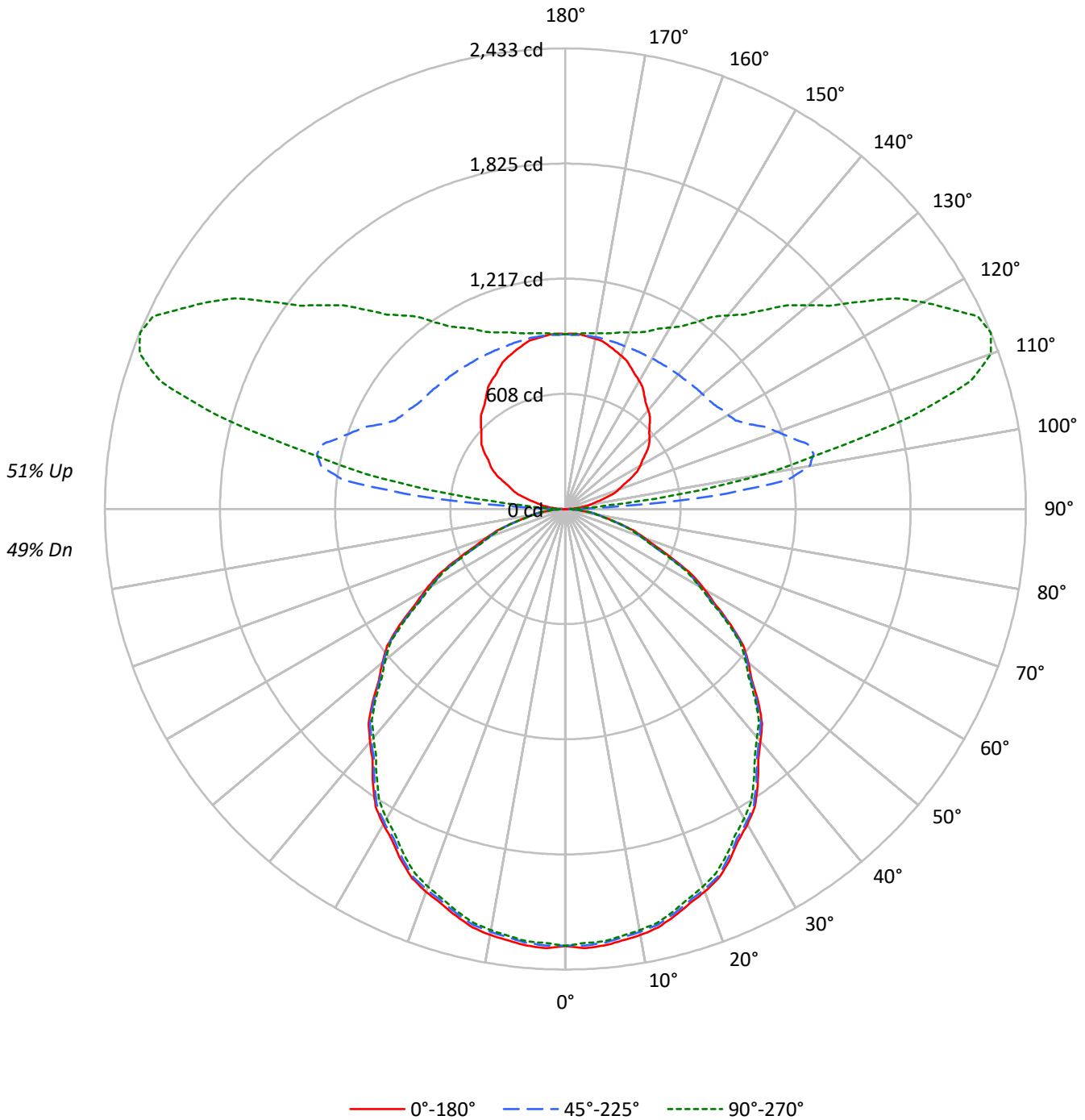
Lumens per Lamp: N/A  
Luminaire Lumens: 11946.3 lumens  
Efficiency: N/A  
Efficacy: 150.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 79.6  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	36				
3	82	72	65	59	75	67	61	55	57	52	48	48	44	41	39	36	34	30				
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

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

	0°	45°	90°
0°	7098	7098	7098
5°	7150	7106	7081
10°	7138	7087	7055
15°	7091	7052	7013
20°	7043	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6326
45°	6263	6219	6158
50°	6038	6000	5942
55°	5726	5650	5607
60°	5213	5063	5039
65°	4593	4401	4387
70°	3965	3801	3801
75°	3413	3365	3316
80°	3009	3044	2974
85°	2354	2569	2569



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.2	1.8
10°-20°	623.1	5.2
20°-30°	933.4	7.8
30°-40°	1094.8	9.2
40°-50°	1098.2	9.2
50°-60°	936.8	7.8
60°-70°	611.0	5.1
70°-80°	306.5	2.6
80°-90°	88.4	0.7
90°-100°	443.8	3.7
100°-110°	1205.5	10.1
110°-120°	1239.5	10.4
120°-130°	991.0	8.3
130°-140°	778.7	6.5
140°-150°	597.1	5.0
150°-160°	429.4	3.6
160°-170°	262.6	2.2
170°-180°	88.5	0.7
0°-30°	1774.7	14.9
0°-40°	2869.5	24.0
0°-60°	4904.5	41.1
0°-90°	5910.4	49.5
90°-120°	2888.8	24.2
90°-150°	5255.5	44.0
90°-180°	6036.0	50.5
0°-180°	11946.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2316	2294	2302	2294	2294	220
15°	2227	2205	2215	2207	2203	628
25°	2051	2027	2037	2019	2017	943
35°	1772	1754	1760	1740	1738	1107
45°	1440	1430	1430	1416	1416	1109
55°	1068	1064	1054	1048	1046	949
65°	631	619	605	601	603	630
75°	287	287	283	281	279	312
85°	67	73	73	73	73	78
90°	3	12	21	27	27	7
95°	65	243	773	336	226	69
105°	214	333	1326	2019	1899	227
115°	380	462	1061	2111	2405	375
125°	523	596	960	1618	1908	466
135°	630	700	933	1318	1486	487
145°	728	781	922	1120	1204	457
155°	823	852	916	1005	1034	380
165°	892	903	918	957	960	252
175°	924	927	922	933	930	88
180°	924	924	924	924	924	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2307.9	2307.9	2307.9	2307.9	2307.9
2.5°	2322.4	2303.4	2307.9	2304.4	2294.9
5°	2316.0	2294.2	2301.8	2293.7	2293.7
7.5°	2300.2	2276.5	2284.0	2275.9	2275.5
10°	2285.6	2261.9	2269.4	2261.3	2259.3
12.5°	2264.6	2240.9	2250.0	2240.3	2239.9
15°	2227.0	2205.2	2214.8	2206.6	2202.7
17.5°	2184.5	2160.8	2172.4	2161.0	2159.4
20°	2152.1	2128.4	2140.0	2123.8	2123.8
22.5°	2113.3	2089.6	2102.8	2081.7	2081.7
25°	2051.0	2027.3	2036.8	2018.6	2016.6
27.5°	1977.0	1953.6	1963.6	1943.0	1942.6
30°	1923.6	1901.8	1913.4	1891.2	1889.2
32.5°	1865.3	1845.1	1853.6	1831.3	1829.3
35°	1771.9	1754.1	1759.7	1739.5	1737.5
37.5°	1673.6	1655.4	1661.8	1644.4	1643.6
40°	1604.0	1592.1	1593.9	1579.6	1575.7
42.5°	1539.3	1525.8	1527.5	1513.3	1512.6
45°	1440.1	1430.3	1430.0	1415.9	1415.9
47.5°	1335.0	1327.4	1325.3	1313.5	1313.1
50°	1262.1	1256.2	1254.1	1243.9	1241.9
52.5°	1186.1	1183.3	1176.4	1167.9	1167.5
55°	1068.0	1064.0	1053.8	1047.7	1045.7
57.5°	939.7	931.8	920.3	911.5	913.0
60°	847.5	839.6	823.2	819.2	819.2
62.5°	758.5	749.0	732.6	727.0	730.2
65°	631.1	619.2	604.8	600.8	602.8
67.5°	515.4	504.7	489.1	489.0	487.5
70°	440.9	435.0	422.7	422.7	422.7
72.5°	374.6	371.8	362.9	362.8	361.2
75°	287.2	287.2	283.2	281.1	279.1
77.5°	215.2	216.0	214.0	211.9	208.3
80°	169.9	173.9	171.9	169.9	167.9
82.5°	127.8	131.8	131.5	127.8	127.4
85°	66.7	72.7	72.8	72.8	72.8
87.5°	18.4	26.5	30.1	31.3	32.9
90°	3.0	11.7	20.8	26.8	26.8
92.5°	26.8	121.5	211.0	90.6	76.7
95°	65.4	242.7	772.8	336.3	225.9
97.5°	108.2	268.0	1184.8	921.8	647.4
100°	136.7	285.0	1310.9	1328.8	1073.1
102.5°	165.3	301.9	1344.1	1643.4	1417.9
105°	214.0	333.2	1325.7	2018.6	1899.4
107.5°	264.5	369.8	1249.0	2212.3	2245.4
110°	300.2	396.1	1192.0	2250.4	2392.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	331.1	422.4	1134.9	2218.8	2433.2
115°	380.5	461.9	1061.2	2111.2	2404.7
117.5°	426.8	504.7	1014.2	1958.6	2289.4
120°	457.8	533.3	992.8	1856.3	2184.8
122.5°	483.9	559.5	978.5	1753.8	2070.6
125°	523.2	595.8	960.1	1617.7	1908.3
127.5°	558.2	630.3	950.0	1514.5	1763.9
130°	579.6	649.4	945.2	1449.7	1673.5
132.5°	601.0	670.8	940.5	1394.4	1592.6
135°	630.2	699.9	933.4	1317.7	1486.2
137.5°	661.7	725.0	929.8	1249.9	1391.7
140°	680.7	741.7	927.4	1206.7	1334.6
142.5°	699.7	756.1	925.0	1173.0	1279.9
145°	728.3	780.6	921.5	1119.6	1203.8
147.5°	760.4	805.1	918.5	1077.5	1143.8
150°	781.8	819.5	918.5	1053.4	1105.8
152.5°	798.4	831.5	916.1	1031.8	1074.8
155°	823.4	852.4	915.5	1005.3	1034.4
157.5°	847.7	870.4	915.5	987.4	1009.4
160°	862.0	882.4	915.5	975.4	992.8
162.5°	876.3	892.0	917.9	965.7	978.5
165°	891.7	903.4	918.5	957.2	960.1
167.5°	907.8	913.6	921.5	947.1	949.4
170°	912.5	918.4	921.5	942.3	942.3
172.5°	917.3	920.8	921.5	937.5	937.5
175°	924.4	927.3	921.5	933.3	930.4
177.5°	926.8	926.8	919.7	929.1	924.4
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)