

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: P563619

Luminaire Tested: **SQ4-PP3-100U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563619  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-100D-840-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

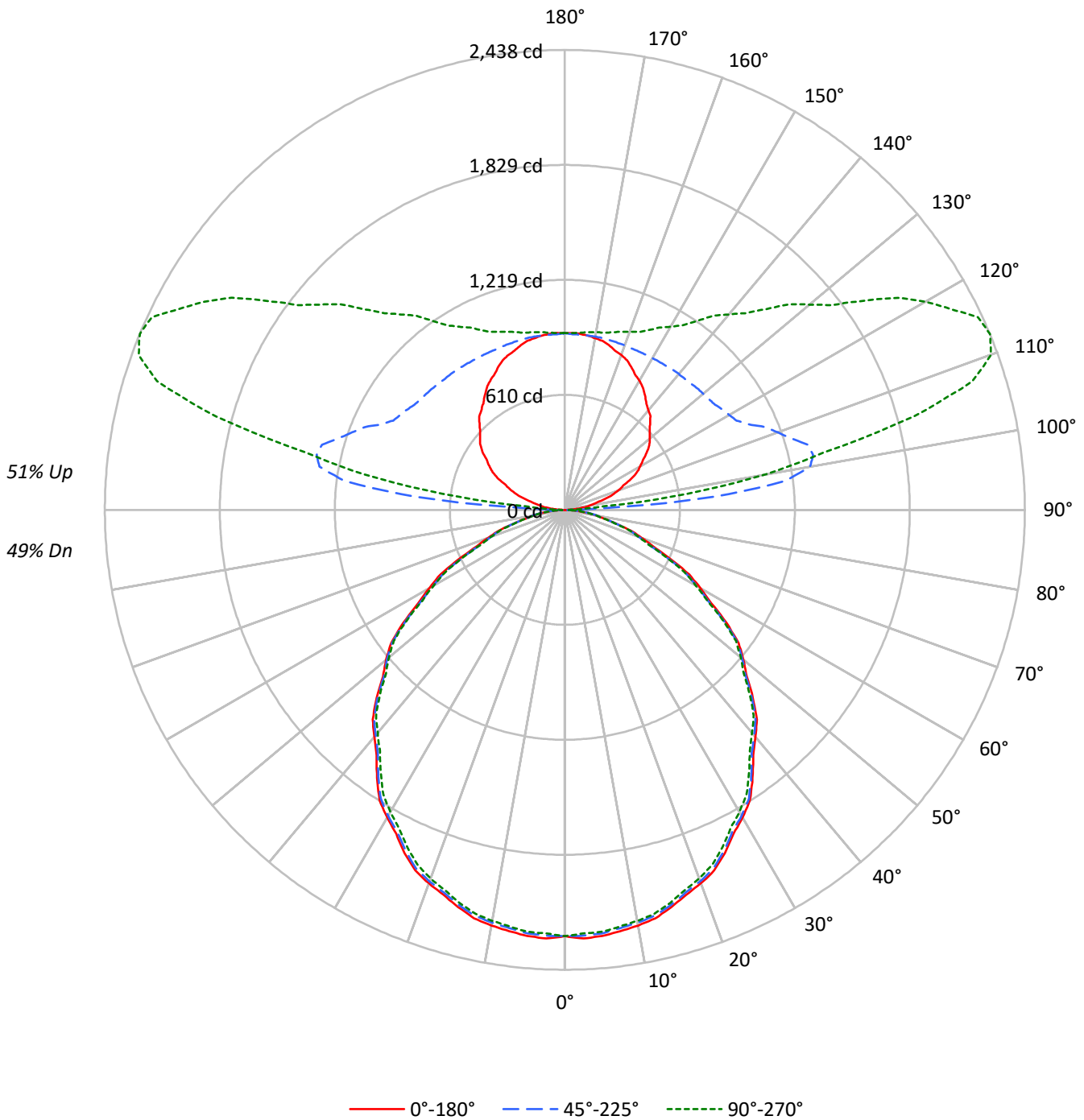
Lumens per Lamp: N/A  
Luminaire Lumens: 11870.9 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 92.9  
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	0
RCR																		
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	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	22	20	17
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	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	19	24	20	17	20	17	15	13

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

	0°	45°	90°
0°	13900	13900	13900
5°	14001	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13630	13535	13401
30°	13377	13307	13138
35°	13028	12938	12775
40°	12611	12531	12388
45°	12267	12181	12060
50°	11826	11750	11637
55°	11214	11066	10980
60°	10209	9916	9867
65°	8993	8619	8590
70°	7765	7443	7443
75°	6683	6590	6495
80°	5894	5961	5823
85°	4615	5032	5032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.7	1.8
10°-20°	610.1	5.1
20°-30°	913.9	7.7
30°-40°	1072.0	9.0
40°-50°	1075.3	9.1
50°-60°	917.4	7.7
60°-70°	598.3	5.0
70°-80°	300.1	2.5
80°-90°	85.0	0.7
90°-100°	438.6	3.7
100°-110°	1210.8	10.2
110°-120°	1248.7	10.5
120°-130°	1003.5	8.5
130°-140°	788.6	6.6
140°-150°	604.8	5.1
150°-160°	434.7	3.7
160°-170°	265.8	2.2
170°-180°	89.6	0.8
0°-30°	1737.7	14.6
0°-40°	2809.7	23.7
0°-60°	4802.4	40.5
0°-90°	5785.8	48.7
90°-120°	2898.1	24.4
90°-150°	5295.0	44.6
90°-180°	6085.0	51.3
0°-180°	11870.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2268	2246	2254	2246	2246	215
15°	2181	2159	2169	2161	2157	615
25°	2008	1985	1994	1977	1975	923
35°	1735	1718	1723	1703	1701	1084
45°	1410	1400	1400	1386	1386	1086
55°	1046	1042	1032	1026	1024	929
65°	618	606	592	588	590	617
75°	281	281	277	275	273	305
85°	65	71	71	71	71	77
90°	3	6	12	14	15	7
95°	64	237	796	327	213	69
105°	216	333	1332	2034	1915	230
115°	387	467	1073	2124	2416	380
125°	530	604	972	1646	1932	472
135°	638	707	946	1333	1503	494
145°	740	792	934	1135	1221	463
155°	835	862	926	1018	1050	385
165°	904	915	930	967	974	255
175°	936	938	932	946	942	89
180°	936	936	936	936	936	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2259.8	2259.8	2259.8	2259.8	2259.8
2.5°	2274.1	2255.5	2259.8	2256.4	2247.1
5°	2267.7	2246.4	2253.9	2246.0	2246.0
7.5°	2252.3	2229.0	2236.4	2228.5	2228.1
10°	2238.0	2214.8	2222.2	2214.2	2212.3
12.5°	2217.4	2194.2	2203.2	2193.7	2193.3
15°	2180.6	2159.3	2168.7	2160.7	2156.8
17.5°	2139.0	2115.8	2127.1	2116.0	2114.4
20°	2107.3	2084.1	2095.4	2079.6	2079.6
22.5°	2069.3	2046.0	2059.0	2038.4	2038.4
25°	2008.3	1985.0	1994.4	1976.6	1974.6
27.5°	1935.8	1912.9	1922.7	1902.5	1902.1
30°	1883.5	1862.2	1873.6	1851.8	1849.8
32.5°	1826.5	1806.7	1815.0	1793.2	1791.2
35°	1735.0	1717.5	1723.1	1703.2	1701.3
37.5°	1638.7	1620.9	1627.2	1610.2	1609.4
40°	1570.6	1559.0	1560.7	1546.7	1542.9
42.5°	1507.2	1494.0	1495.7	1481.8	1481.1
45°	1410.2	1400.5	1400.3	1386.4	1386.4
47.5°	1307.2	1299.8	1297.7	1286.2	1285.8
50°	1235.9	1230.1	1227.9	1218.0	1216.1
52.5°	1161.4	1158.7	1151.9	1143.6	1143.2
55°	1045.7	1041.9	1031.9	1025.9	1023.9
57.5°	920.2	912.4	901.2	892.5	894.0
60°	829.9	822.1	806.1	802.1	802.1
62.5°	742.7	733.4	717.4	711.9	715.0
65°	617.9	606.3	592.2	588.3	590.2
67.5°	504.6	494.2	478.9	478.9	477.3
70°	431.8	426.0	413.9	413.9	413.9
72.5°	366.8	364.1	355.3	355.3	353.7
75°	281.2	281.2	277.3	275.3	273.3
77.5°	210.7	211.5	209.5	207.5	204.0
80°	166.4	170.2	168.3	166.3	164.4
82.5°	125.2	129.0	128.7	125.2	124.8
85°	65.4	71.2	71.3	71.3	71.3
87.5°	18.0	24.8	27.7	28.1	29.9
90°	3.0	5.9	12.0	13.5	15.0
92.5°	27.0	112.0	200.2	73.1	56.9
95°	64.4	237.3	795.7	327.1	212.8
97.5°	106.7	265.8	1178.7	907.5	657.2
100°	137.9	282.9	1320.1	1329.5	1080.4
102.5°	167.8	302.3	1347.7	1642.6	1406.4
105°	215.8	333.0	1332.1	2033.7	1915.0
107.5°	266.7	371.0	1257.8	2222.3	2265.7
110°	302.7	396.5	1200.3	2262.9	2403.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	335.1	425.3	1146.3	2230.8	2438.3
115°	386.6	467.2	1072.9	2123.9	2415.5
117.5°	431.6	511.8	1024.6	1973.5	2305.2
120°	461.5	540.6	1005.5	1871.7	2205.7
122.5°	490.3	565.9	989.9	1776.6	2093.0
125°	530.5	603.7	972.5	1645.8	1931.5
127.5°	564.6	637.9	962.3	1535.2	1781.7
130°	587.4	660.7	957.5	1467.6	1691.8
132.5°	609.0	678.7	952.7	1410.8	1613.8
135°	638.3	707.2	945.5	1333.0	1502.9
137.5°	671.3	734.0	941.9	1267.7	1412.7
140°	689.3	750.8	939.5	1224.1	1351.6
142.5°	709.7	766.5	937.1	1185.4	1297.7
145°	740.2	791.5	933.5	1134.8	1221.2
147.5°	769.6	814.4	930.2	1092.1	1159.2
150°	791.2	827.8	929.0	1066.6	1120.8
152.5°	808.0	842.2	927.8	1044.8	1089.7
155°	834.6	862.5	926.0	1018.2	1050.4
157.5°	859.2	880.6	926.3	998.8	1020.7
160°	873.6	892.6	927.5	987.8	1004.0
162.5°	885.6	902.3	928.7	978.2	990.8
165°	903.6	915.3	930.5	966.7	974.0
167.5°	917.4	924.4	932.0	959.7	962.0
170°	924.5	930.4	932.0	956.0	956.0
172.5°	930.5	934.1	932.0	951.2	950.0
175°	936.5	938.0	932.0	945.5	942.5
177.5°	938.9	937.8	931.7	940.1	937.7
180°	936.5	936.5	936.5	936.5	936.5

(END OF REPORT)