

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: P564496

Luminaire Tested: **SQ4-PR1-150U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564496
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-100D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

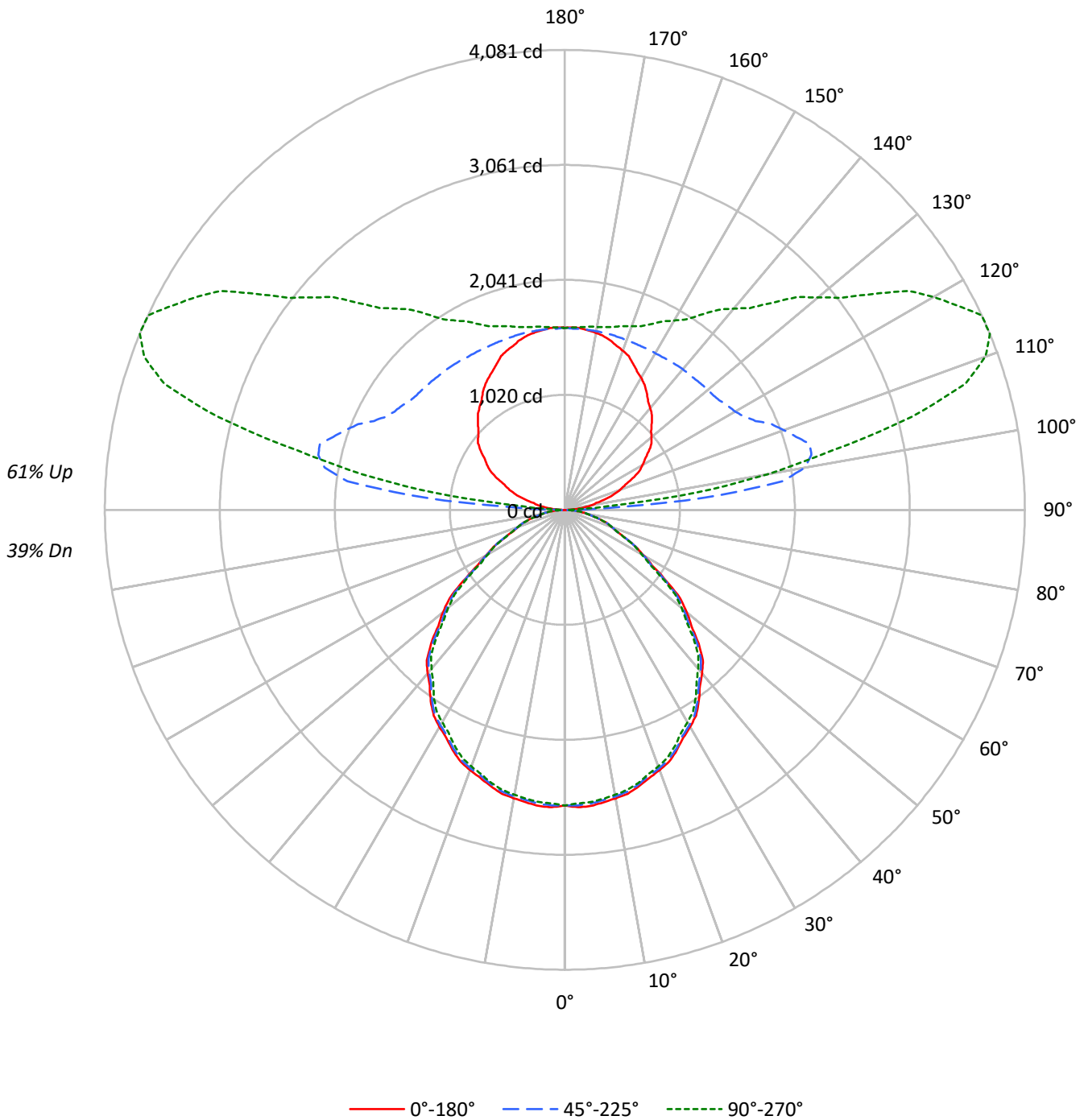
Lumens per Lamp: N/A
Luminaire Lumens: 16979.8 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 148.4
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	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°	12108	12108	12108
5°	12217	12122	12060
10°	12178	12093	12030
15°	12124	12049	11984
20°	12063	11986	11897
25°	11978	11898	11760
30°	11849	11765	11596
35°	11674	11572	11407
40°	11408	11286	11082
45°	10943	10751	10530
50°	10124	9880	9686
55°	8837	8636	8454
60°	7446	7384	7237
65°	6440	6465	6416
70°	5916	5945	5945
75°	5682	5682	5721
80°	5345	5406	5345
85°	4308	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	1.5
10°-20°	710.1	4.2
20°-30°	1071.1	6.3
30°-40°	1276.2	7.5
40°-50°	1258.2	7.4
50°-60°	961.6	5.7
60°-70°	595.1	3.5
70°-80°	338.0	2.0
80°-90°	106.2	0.6
90°-100°	750.7	4.4
100°-110°	2029.9	12.0
110°-120°	2134.1	12.6
120°-130°	1733.5	10.2
130°-140°	1359.8	8.0
140°-150°	1043.6	6.1
150°-160°	750.6	4.4
160°-170°	458.5	2.7
170°-180°	154.6	0.9
0°-30°	2029.4	12.0
0°-40°	3305.6	19.5
0°-60°	5525.4	32.5
0°-90°	6564.6	38.7
90°-120°	4914.7	28.9
90°-150°	9051.5	53.3
90°-180°	10415.0	61.3
0°-180°	16979.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2625	2625	2625	2625	2625	
5°	2638	2610	2618	2609	2604	250
15°	2539	2512	2523	2514	2509	716
25°	2353	2325	2338	2313	2310	1083
35°	2073	2049	2055	2028	2026	1294
45°	1677	1655	1648	1618	1614	1285
55°	1099	1081	1074	1056	1051	984
65°	590	586	592	588	588	598
75°	319	319	319	321	321	337
85°	81	86	90	90	90	95
90°	4	10	23	24	23	11
95°	116	409	1248	646	384	122
105°	377	583	2252	3322	3186	397
115°	664	812	1868	3615	4081	656
125°	909	1042	1683	2840	3337	811
135°	1090	1220	1638	2294	2596	843
145°	1268	1363	1615	1963	2113	793
155°	1431	1487	1602	1761	1819	660
165°	1558	1573	1608	1671	1680	439
175°	1617	1616	1610	1631	1628	154
180°	1615	1615	1615	1615	1615	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2624.6	2624.6	2624.6	2624.6	2624.6
2.5°	2640.9	2617.9	2624.6	2618.9	2606.5
5°	2638.2	2609.5	2617.8	2608.7	2604.3
7.5°	2617.8	2589.5	2597.9	2588.8	2586.2
10°	2599.8	2573.2	2581.7	2572.5	2568.1
12.5°	2579.9	2551.6	2561.8	2550.8	2546.4
15°	2538.7	2512.2	2522.9	2513.8	2509.3
17.5°	2493.5	2465.2	2475.9	2465.3	2459.6
20°	2457.3	2430.8	2441.5	2425.6	2423.4
22.5°	2417.5	2391.0	2401.7	2380.5	2380.0
25°	2353.3	2324.6	2337.5	2312.6	2310.4
27.5°	2276.9	2250.4	2261.1	2235.7	2233.1
30°	2224.5	2198.0	2208.7	2181.4	2177.0
32.5°	2164.8	2140.0	2149.0	2121.8	2119.1
35°	2073.0	2048.7	2054.9	2027.8	2025.5
37.5°	1968.6	1946.5	1950.0	1920.2	1917.9
40°	1894.4	1872.3	1874.1	1842.4	1840.2
42.5°	1813.0	1790.9	1789.1	1757.4	1755.2
45°	1677.4	1655.3	1648.0	1618.5	1614.1
47.5°	1522.8	1500.7	1487.1	1463.0	1459.9
50°	1410.7	1388.5	1376.7	1356.2	1349.6
52.5°	1289.5	1267.4	1257.4	1238.7	1232.1
55°	1098.7	1081.0	1073.8	1055.6	1051.2
57.5°	917.4	905.4	903.4	885.7	883.9
60°	807.1	800.4	800.3	784.4	784.4
62.5°	713.0	708.1	711.7	701.2	699.4
65°	590.0	585.6	592.3	587.8	587.8
67.5°	492.8	492.8	496.9	495.1	495.1
70°	438.6	438.6	440.8	440.8	440.8
72.5°	389.7	388.0	393.8	393.8	392.0
75°	318.8	318.8	318.8	321.0	321.0
77.5°	248.2	248.7	250.5	250.0	248.2
80°	201.2	203.4	203.5	201.2	201.2
82.5°	154.2	156.4	156.4	155.9	154.2
85°	81.4	85.8	90.4	90.4	90.4
87.5°	24.2	32.6	40.7	41.0	38.9
90°	3.5	10.3	22.6	24.3	22.6
92.5°	49.4	180.0	355.1	154.1	111.6
95°	116.5	408.9	1248.5	646.1	384.3
97.5°	187.1	469.0	1946.1	1610.6	1182.8
100°	240.0	493.3	2163.2	2255.9	1824.1
102.5°	288.7	527.0	2239.7	2745.3	2422.3
105°	377.3	583.1	2251.8	3321.6	3185.6
107.5°	459.4	647.1	2153.4	3681.2	3726.4
110°	523.4	693.4	2065.8	3777.7	3969.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.4	739.6	1985.1	3758.4	4081.1
115°	664.3	812.2	1867.6	3615.3	4081.1
117.5°	746.3	885.1	1790.0	3396.5	3924.6
120°	796.4	932.4	1744.1	3239.6	3778.6
122.5°	843.7	977.0	1716.3	3071.4	3614.4
125°	909.4	1042.1	1683.2	2840.4	3336.9
127.5°	969.9	1100.2	1663.8	2652.0	3088.6
130°	1003.3	1137.6	1655.4	2535.6	2930.0
132.5°	1038.1	1171.1	1647.1	2430.5	2793.7
135°	1090.3	1219.5	1638.0	2293.5	2596.1
137.5°	1142.8	1264.9	1630.4	2182.3	2428.9
140°	1179.0	1292.9	1627.6	2110.8	2330.1
142.5°	1213.7	1320.8	1622.0	2046.2	2238.3
145°	1267.6	1362.9	1615.4	1963.1	2112.7
147.5°	1316.7	1401.0	1607.8	1887.9	2002.8
150°	1352.8	1427.7	1605.0	1847.0	1938.8
152.5°	1386.2	1451.5	1603.6	1809.1	1884.6
155°	1431.1	1487.2	1601.5	1761.1	1818.9
157.5°	1477.7	1516.8	1601.9	1727.6	1765.7
160°	1504.1	1536.4	1603.2	1706.5	1733.7
162.5°	1525.0	1551.9	1604.6	1689.6	1710.0
165°	1558.0	1573.3	1608.5	1671.3	1679.8
167.5°	1580.6	1591.2	1608.8	1655.5	1659.6
170°	1594.5	1599.6	1610.2	1648.5	1648.5
172.5°	1605.7	1606.7	1610.2	1640.1	1638.7
175°	1617.2	1615.5	1610.2	1631.0	1627.6
177.5°	1621.0	1616.9	1609.9	1623.7	1619.6
180°	1615.4	1615.4	1615.4	1615.4	1615.4

(END OF REPORT)