

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: P564721

Luminaire Tested: **SQ4-PW1-075U-050D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564721
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-050D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14917.6 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

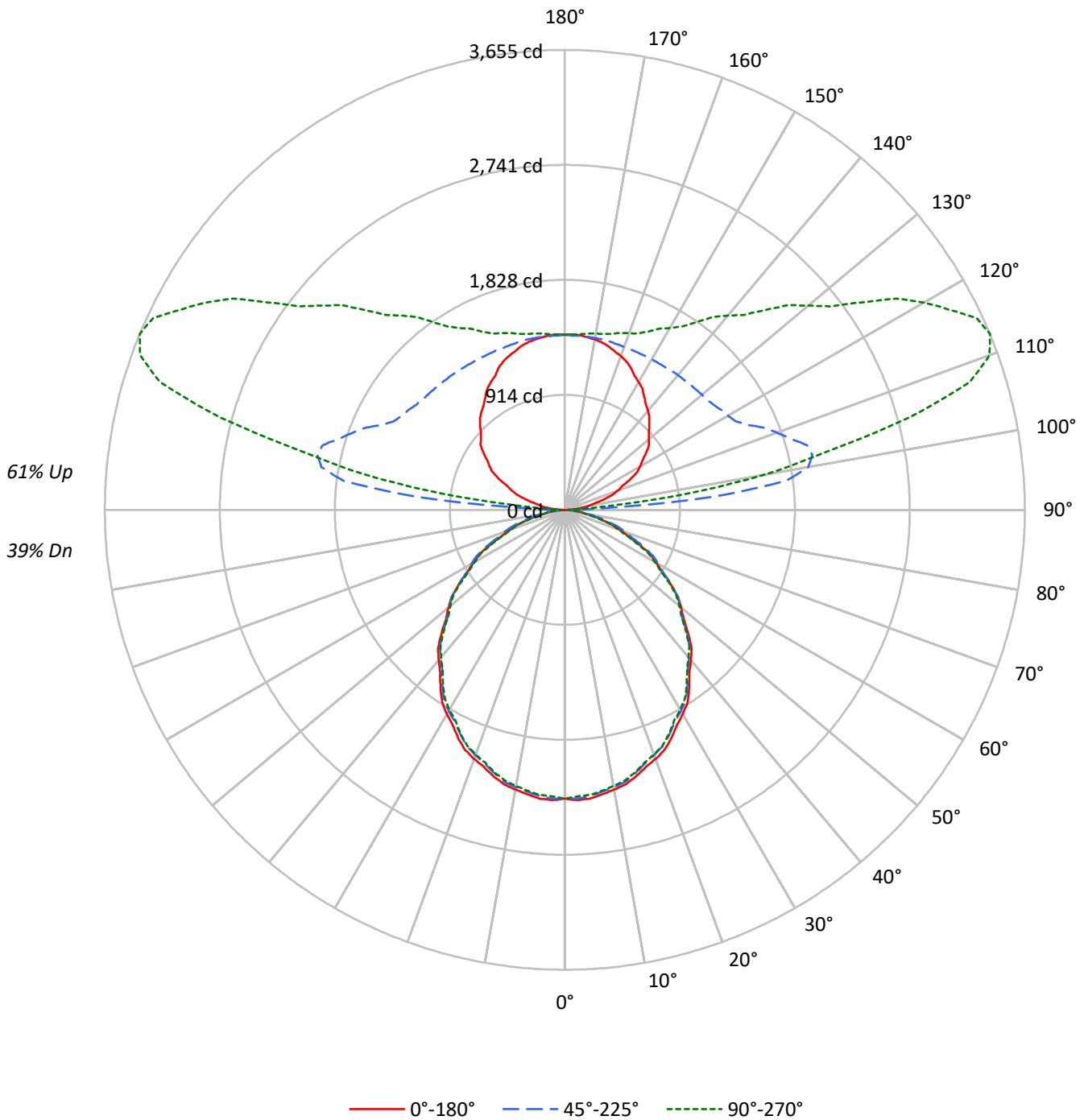
Input Watts (W): 107.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33				
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28				
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24				
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20				
5	67	55	47	41	60	50	44	38	42	36	32	33	30	27	26	23	21	18				
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16				
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14				
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12				
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11				
10	45	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7062	7062	7062
5°	7108	7051	7020
10°	7051	6994	6956
15°	6976	6899	6873
20°	6893	6787	6774
25°	6796	6673	6652
30°	6653	6552	6509
35°	6464	6373	6335
40°	6262	6165	6140
45°	6019	5939	5913
50°	5769	5721	5682
55°	5500	5500	5413
60°	5164	5264	5077
65°	4726	4961	4608
70°	4166	4566	4057
75°	3558	4086	3461
80°	2759	3439	2795
85°	1785	2643	2357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	1.4
10°-20°	610.5	4.1
20°-30°	905.5	6.1
30°-40°	1059.6	7.1
40°-50°	1054.8	7.1
50°-60°	910.9	6.1
60°-70°	655.7	4.4
70°-80°	343.8	2.3
80°-90°	88.8	0.6
90°-100°	656.8	4.4
100°-110°	1807.0	12.1
110°-120°	1865.1	12.5
120°-130°	1494.3	10.0
130°-140°	1173.7	7.9
140°-150°	899.4	6.0
150°-160°	646.7	4.3
160°-170°	395.4	2.7
170°-180°	133.3	0.9
0°-30°	1732.2	11.6
0°-40°	2791.8	18.7
0°-60°	4757.6	31.9
0°-90°	5845.9	39.2
90°-120°	4328.8	29.0
90°-150°	7896.3	52.9
90°-180°	9072.0	60.8
0°-180°	14917.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2296	2296	2296	2296	2296	
5°	2302	2277	2284	2278	2274	218
15°	2191	2163	2167	2163	2159	618
25°	2003	1969	1966	1954	1960	921
35°	1722	1698	1697	1681	1687	1076
45°	1384	1372	1366	1362	1360	1068
55°	1026	1024	1026	1012	1010	915
65°	649	669	682	655	633	644
75°	299	327	344	321	291	321
85°	51	66	75	71	67	67
90°	3	12	21	27	27	8
95°	98	358	1161	497	317	103
105°	323	497	1991	3032	2830	340
115°	572	696	1597	3180	3609	564
125°	788	898	1449	2451	2871	703
135°	951	1055	1407	1982	2243	734
145°	1099	1174	1387	1689	1819	689
155°	1244	1285	1378	1518	1561	572
165°	1345	1362	1384	1440	1449	379
175°	1392	1395	1387	1404	1401	132
180°	1392	1392	1392	1392	1392	

TEST NUMBER: P564721

CATALOG NUMBER: SQ4-PW1-075U-050D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2296.3	2296.3	2296.3	2296.3	2296.3
2.5°	2309.2	2290.2	2296.3	2291.2	2280.1
5°	2302.4	2276.6	2284.1	2278.0	2274.0
7.5°	2278.9	2255.1	2260.7	2254.1	2251.8
10°	2257.8	2234.1	2239.6	2231.4	2227.5
12.5°	2233.6	2208.2	2213.7	2205.6	2203.2
15°	2191.1	2163.4	2166.8	2162.7	2158.7
17.5°	2141.7	2113.6	2114.2	2107.7	2106.9
20°	2106.1	2076.4	2073.7	2065.7	2069.7
22.5°	2067.3	2036.0	2033.3	2022.1	2027.6
25°	2002.9	1969.3	1966.5	1954.5	1960.4
27.5°	1928.5	1895.2	1895.3	1878.4	1884.8
30°	1873.4	1841.8	1845.1	1825.1	1833.0
32.5°	1815.2	1786.7	1788.5	1768.4	1776.3
35°	1721.7	1698.0	1697.4	1681.4	1687.3
37.5°	1626.2	1605.2	1601.9	1592.7	1594.2
40°	1559.9	1542.0	1535.6	1529.5	1529.5
42.5°	1490.3	1474.0	1467.6	1463.1	1461.5
45°	1383.8	1372.0	1365.6	1361.5	1359.6
47.5°	1278.6	1267.6	1262.0	1259.2	1257.2
50°	1205.8	1197.9	1195.7	1189.6	1187.6
52.5°	1133.0	1128.2	1126.1	1118.4	1116.4
55°	1025.7	1023.8	1025.7	1011.5	1009.6
57.5°	914.1	917.2	923.8	904.6	899.9
60°	839.6	847.5	855.8	833.4	825.4
62.5°	763.5	776.2	787.8	762.1	751.0
65°	649.4	669.2	681.8	655.0	633.2
67.5°	539.4	563.9	579.0	550.1	525.6
70°	463.3	491.0	507.8	478.9	451.2
72.5°	396.9	427.8	441.5	414.1	386.4
75°	299.4	327.1	343.9	321.0	291.3
77.5°	212.4	238.5	252.5	232.5	208.0
80°	155.8	183.5	194.2	177.6	157.8
82.5°	110.5	133.4	140.8	130.8	117.3
85°	50.6	66.4	74.9	70.7	66.8
87.5°	13.5	26.4	34.9	36.1	37.7
90°	3.0	11.7	20.7	26.7	26.7
92.5°	40.9	174.7	302.8	116.3	95.4
95°	97.8	358.5	1161.4	496.6	317.0
97.5°	159.4	397.5	1772.4	1365.6	963.5
100°	204.4	421.7	1964.3	1982.7	1617.7
102.5°	247.1	450.5	2014.1	2459.8	2124.9
105°	322.9	496.8	1991.0	3032.3	2829.5
107.5°	395.2	554.0	1877.8	3312.6	3372.9
110°	447.4	592.2	1792.5	3382.3	3590.9

TEST NUMBER: P564721

CATALOG NUMBER: SQ4-PW1-075U-050D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	494.8	635.0	1707.2	3337.4	3654.9
115°	571.8	696.4	1597.0	3180.0	3608.7
117.5°	645.3	760.0	1527.0	2959.0	3444.0
120°	690.3	800.4	1496.2	2793.5	3294.6
122.5°	730.6	840.7	1474.9	2648.3	3124.0
125°	788.1	898.2	1448.8	2450.9	2871.0
127.5°	842.6	947.5	1431.6	2286.2	2654.7
130°	871.1	978.3	1422.2	2188.3	2524.3
132.5°	904.3	1011.4	1415.0	2102.2	2405.8
135°	951.1	1055.4	1407.3	1982.1	2242.8
137.5°	994.9	1091.7	1400.8	1885.1	2100.0
140°	1028.1	1117.9	1398.4	1820.6	2014.7
142.5°	1056.5	1139.4	1393.7	1763.1	1929.4
145°	1099.2	1174.5	1386.6	1688.8	1819.2
147.5°	1144.8	1209.7	1383.0	1623.0	1727.3
150°	1173.3	1231.2	1380.7	1586.9	1668.1
152.5°	1199.3	1252.7	1378.3	1555.8	1623.0
155°	1244.4	1284.9	1377.7	1517.9	1561.4
157.5°	1277.0	1310.0	1377.7	1486.8	1517.0
160°	1300.7	1326.7	1377.7	1470.1	1493.3
162.5°	1319.6	1341.1	1380.1	1455.8	1474.3
165°	1345.1	1362.5	1383.6	1440.1	1448.8
167.5°	1362.9	1376.2	1386.6	1426.9	1429.3
170°	1374.7	1383.4	1386.6	1422.2	1422.2
172.5°	1384.2	1388.3	1386.6	1415.0	1412.7
175°	1392.5	1395.4	1386.6	1404.3	1401.4
177.5°	1394.9	1394.9	1385.4	1399.5	1394.9
180°	1392.5	1392.5	1392.5	1392.5	1392.5

(END OF REPORT)