

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: P563601

Luminaire Tested: **SQ4-PP3-100U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563601
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-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

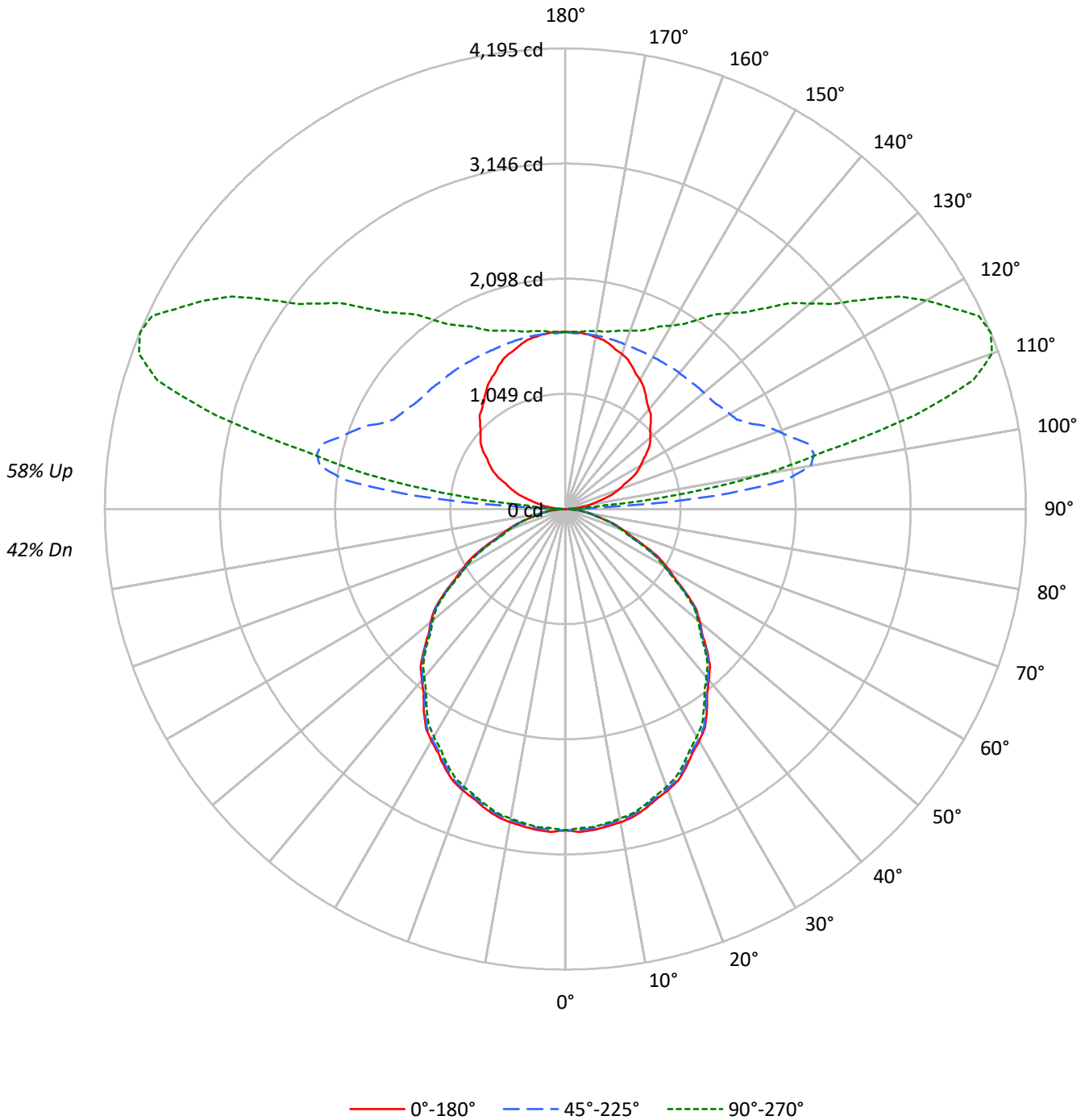
Lumens per Lamp: N/A
Luminaire Lumens: 17961.9 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 153.4
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	96	96	96	96	79	79	79	63	63	63	49	49	49	42				
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35				
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30				
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26				
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22				
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17				
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15				
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7941	7886	7808
50°	7657	7607	7534
55°	7260	7164	7109
60°	6609	6420	6388
65°	5822	5580	5561
70°	5027	4820	4820
75°	4328	4266	4205
80°	3815	3861	3771
85°	2985	3257	3257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	1.5
10°-20°	790.1	4.4
20°-30°	1183.4	6.6
30°-40°	1388.0	7.7
40°-50°	1392.4	7.8
50°-60°	1187.8	6.6
60°-70°	774.7	4.3
70°-80°	388.6	2.2
80°-90°	110.9	0.6
90°-100°	754.6	4.2
100°-110°	2083.1	11.6
110°-120°	2148.4	12.0
120°-130°	1726.4	9.6
130°-140°	1356.8	7.6
140°-150°	1040.6	5.8
150°-160°	747.9	4.2
160°-170°	457.3	2.5
170°-180°	154.2	0.9
0°-30°	2250.1	12.5
0°-40°	3638.2	20.3
0°-60°	6218.4	34.6
0°-90°	7492.6	41.7
90°-120°	4986.1	27.8
90°-150°	9109.9	50.7
90°-180°	10469.0	58.3
0°-180°	17961.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2926	2926	2926	2926	2926	
5°	2936	2909	2918	2908	2908	279
15°	2824	2796	2808	2798	2793	797
25°	2600	2570	2582	2559	2557	1196
35°	2246	2224	2231	2205	2203	1403
45°	1826	1813	1813	1795	1795	1406
55°	1354	1349	1336	1328	1326	1203
65°	800	785	767	762	764	799
75°	364	364	359	356	354	395
85°	85	92	92	92	92	100
90°	5	10	21	23	26	11
95°	111	408	1369	563	366	119
105°	371	573	2292	3499	3295	395
115°	665	804	1846	3654	4156	654
125°	913	1039	1673	2832	3323	812
135°	1098	1217	1627	2293	2586	850
145°	1274	1362	1606	1952	2101	797
155°	1436	1484	1593	1752	1807	662
165°	1555	1575	1601	1663	1676	438
175°	1611	1614	1604	1627	1622	153
180°	1611	1611	1611	1611	1611	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2926.1	2926.1	2926.1	2926.1	2926.1
2.5°	2944.6	2920.5	2926.1	2921.7	2909.7
5°	2936.4	2908.8	2918.4	2908.2	2908.2
7.5°	2916.4	2886.3	2895.9	2885.6	2885.1
10°	2897.9	2867.8	2877.4	2867.1	2864.6
12.5°	2871.2	2841.2	2852.8	2840.5	2840.0
15°	2823.5	2796.0	2808.2	2797.8	2792.8
17.5°	2769.7	2739.6	2754.3	2739.9	2737.9
20°	2728.7	2698.6	2713.3	2692.8	2692.8
22.5°	2679.4	2649.3	2666.1	2639.4	2639.4
25°	2600.4	2570.3	2582.5	2559.3	2556.8
27.5°	2506.6	2477.0	2489.6	2463.5	2463.0
30°	2438.9	2411.3	2426.0	2397.8	2395.3
32.5°	2365.0	2339.4	2350.1	2321.9	2319.4
35°	2246.5	2224.0	2231.1	2205.4	2202.9
37.5°	2121.9	2098.8	2107.0	2084.9	2083.9
40°	2033.7	2018.6	2020.8	2002.8	1997.8
42.5°	1951.6	1934.6	1936.7	1918.8	1917.8
45°	1825.9	1813.4	1813.1	1795.2	1795.2
47.5°	1692.6	1683.1	1680.3	1665.4	1664.9
50°	1600.3	1592.7	1590.0	1577.1	1574.6
52.5°	1503.8	1500.3	1491.5	1480.7	1480.2
55°	1354.1	1349.1	1336.1	1328.4	1325.9
57.5°	1191.5	1181.4	1166.9	1155.6	1157.6
60°	1074.5	1064.5	1043.8	1038.6	1038.6
62.5°	961.7	949.7	928.9	921.8	925.8
65°	800.1	785.1	766.8	761.7	764.2
67.5°	653.4	639.9	620.1	620.1	618.1
70°	559.1	551.5	536.0	536.0	536.0
72.5°	475.0	471.4	460.1	460.0	458.0
75°	364.2	364.2	359.0	356.4	353.9
77.5°	272.9	273.9	271.3	268.7	264.1
80°	215.4	220.4	218.0	215.4	212.9
82.5°	162.1	167.1	166.7	162.1	161.6
85°	84.6	92.2	92.3	92.3	92.3
87.5°	23.6	32.6	37.0	37.5	40.0
90°	5.2	10.2	20.6	23.3	25.8
92.5°	46.4	192.6	344.4	125.7	98.0
95°	110.9	408.3	1368.9	562.7	366.1
97.5°	183.6	457.3	2027.9	1561.3	1130.7
100°	237.2	486.7	2271.3	2287.3	1858.8
102.5°	288.7	520.1	2318.7	2826.1	2419.8
105°	371.2	572.9	2291.9	3498.9	3294.7
107.5°	458.9	638.4	2164.0	3823.4	3898.0
110°	520.8	682.1	2065.0	3893.2	4135.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.5	731.7	1972.2	3838.1	4195.0
115°	665.1	803.8	1845.9	3654.2	4155.8
117.5°	742.5	880.6	1762.9	3395.4	3966.1
120°	794.0	930.2	1729.9	3220.2	3794.9
122.5°	843.5	973.6	1703.1	3056.5	3601.0
125°	912.6	1038.7	1673.2	2831.6	3323.1
127.5°	971.4	1097.4	1655.6	2641.3	3065.3
130°	1010.6	1136.6	1647.4	2524.9	2910.6
132.5°	1047.7	1167.7	1639.1	2427.2	2776.6
135°	1098.2	1216.7	1626.7	2293.4	2585.8
137.5°	1155.0	1262.9	1620.6	2181.0	2430.6
140°	1185.9	1291.8	1616.4	2106.1	2325.4
142.5°	1221.0	1318.8	1612.3	2039.5	2232.6
145°	1273.6	1361.8	1606.1	1952.4	2101.1
147.5°	1324.1	1401.2	1600.5	1878.9	1994.4
150°	1361.2	1424.2	1598.4	1835.1	1928.4
152.5°	1390.1	1449.1	1596.3	1797.6	1874.8
155°	1436.0	1483.9	1593.2	1751.8	1807.2
157.5°	1478.3	1515.1	1593.7	1718.4	1756.2
160°	1503.0	1535.8	1595.8	1699.6	1727.3
162.5°	1523.6	1552.4	1597.9	1682.9	1704.6
165°	1554.6	1574.7	1601.0	1663.1	1675.7
167.5°	1578.3	1590.4	1603.5	1651.1	1655.1
170°	1590.7	1600.7	1603.5	1644.8	1644.8
172.5°	1601.0	1607.0	1603.5	1636.5	1634.5
175°	1611.3	1613.8	1603.5	1626.6	1621.6
177.5°	1615.4	1613.4	1603.0	1617.4	1613.3
180°	1611.3	1611.3	1611.3	1611.3	1611.3

(END OF REPORT)