

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: P564269

Luminaire Tested: **SQ4-PR1-100U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564269
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

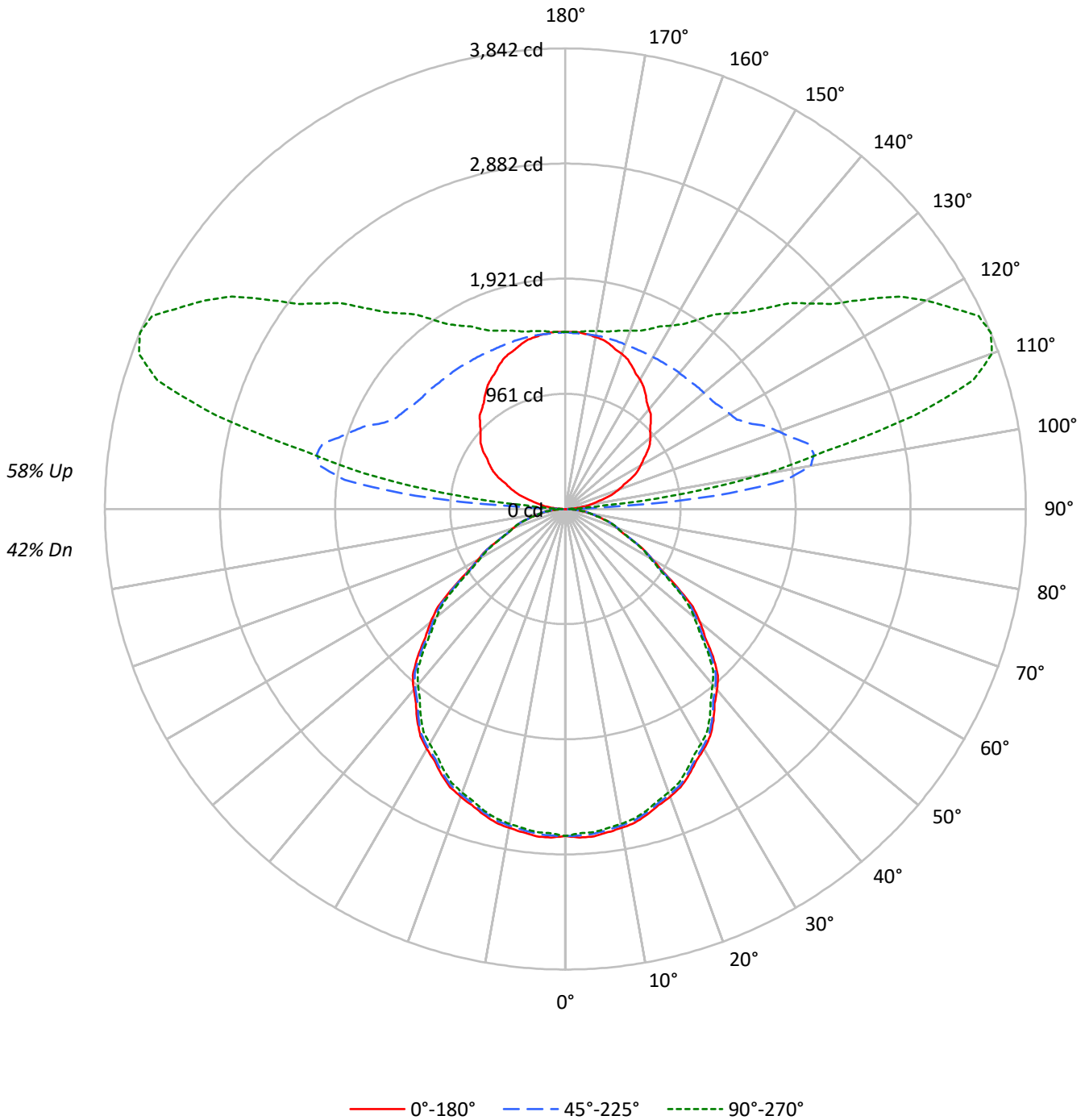
Lumens per Lamp: N/A
Luminaire Lumens: 16409.4 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8388	8388	8388
5°	8463	8398	8355
10°	8437	8378	8334
15°	8400	8347	8302
20°	8357	8303	8242
25°	8298	8243	8147
30°	8209	8151	8034
35°	8088	8017	7903
40°	7903	7819	7677
45°	7581	7449	7295
50°	7014	6845	6710
55°	6122	5983	5857
60°	5159	5115	5014
65°	4462	4479	4445
70°	4098	4119	4119
75°	3935	3935	3964
80°	3703	3744	3703
85°	2985	3317	3317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	1.6
10°-20°	737.9	4.5
20°-30°	1113.0	6.8
30°-40°	1326.2	8.1
40°-50°	1307.5	8.0
50°-60°	999.3	6.1
60°-70°	618.4	3.8
70°-80°	351.2	2.1
80°-90°	109.9	0.7
90°-100°	691.1	4.2
100°-110°	1907.8	11.6
110°-120°	1967.5	12.0
120°-130°	1581.1	9.6
130°-140°	1242.6	7.6
140°-150°	953.0	5.8
150°-160°	684.9	4.2
160°-170°	418.9	2.6
170°-180°	141.2	0.9
0°-30°	2108.9	12.9
0°-40°	3435.1	20.9
0°-60°	5741.8	35.0
0°-90°	6821.4	41.6
90°-120°	4566.4	27.8
90°-150°	8343.0	50.8
90°-180°	9588.0	58.4
0°-180°	16409.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2727	2727	2727	2727	2727	
5°	2742	2712	2720	2711	2706	260
15°	2638	2611	2622	2612	2608	744
25°	2446	2416	2429	2403	2401	1125
35°	2154	2129	2135	2107	2105	1344
45°	1743	1720	1713	1682	1677	1335
55°	1142	1123	1116	1097	1092	1023
65°	613	609	616	611	611	621
75°	331	331	331	334	334	350
85°	85	89	94	94	94	98
90°	5	9	19	21	24	11
95°	102	374	1254	515	335	109
105°	340	525	2099	3204	3017	362
115°	609	736	1690	3347	3806	599
125°	836	951	1532	2593	3043	744
135°	1006	1114	1490	2100	2368	778
145°	1166	1247	1471	1788	1924	730
155°	1315	1359	1459	1604	1655	606
165°	1424	1442	1466	1523	1535	401
175°	1476	1478	1469	1490	1485	140
180°	1476	1476	1476	1476	1476	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2727.4	2727.4	2727.4	2727.4	2727.4
2.5°	2744.3	2720.5	2727.4	2721.5	2708.6
5°	2741.5	2711.7	2720.4	2710.9	2706.3
7.5°	2720.4	2691.0	2699.7	2690.3	2687.5
10°	2701.6	2674.0	2682.8	2673.3	2668.7
12.5°	2680.9	2651.5	2662.1	2650.7	2646.2
15°	2638.2	2610.6	2621.7	2612.2	2607.6
17.5°	2591.2	2561.8	2572.9	2561.9	2555.9
20°	2553.6	2526.0	2537.1	2520.7	2518.4
22.5°	2512.2	2484.7	2495.8	2473.7	2473.3
25°	2445.5	2415.7	2429.1	2403.2	2400.9
27.5°	2366.1	2338.6	2349.7	2323.3	2320.6
30°	2311.6	2284.1	2295.2	2266.9	2262.3
32.5°	2249.6	2223.9	2233.2	2204.9	2202.2
35°	2154.2	2129.0	2135.4	2107.2	2104.9
37.5°	2045.7	2022.7	2026.4	1995.4	1993.1
40°	1968.6	1945.7	1947.5	1914.6	1912.3
42.5°	1884.1	1861.1	1859.2	1826.2	1823.9
45°	1743.1	1720.1	1712.6	1681.9	1677.3
47.5°	1582.4	1559.5	1545.3	1520.3	1517.1
50°	1465.9	1442.9	1430.7	1409.4	1402.5
52.5°	1340.0	1317.0	1306.6	1287.2	1280.3
55°	1141.7	1123.3	1115.9	1097.0	1092.4
57.5°	953.3	940.9	938.7	920.4	918.5
60°	838.7	831.8	831.6	815.2	815.2
62.5°	740.9	735.9	739.5	728.7	726.8
65°	613.1	608.6	615.5	610.8	610.8
67.5°	512.1	512.1	516.4	514.5	514.5
70°	455.7	455.7	458.1	458.1	458.1
72.5°	405.0	403.2	409.2	409.2	407.4
75°	331.2	331.2	331.2	333.6	333.6
77.5°	257.9	258.4	260.3	259.8	257.9
80°	209.1	211.4	211.4	209.1	209.1
82.5°	160.2	162.5	162.6	162.1	160.2
85°	84.6	89.2	94.0	94.0	94.0
87.5°	25.4	33.7	41.4	41.8	40.4
90°	4.7	9.3	18.9	21.3	23.6
92.5°	42.5	176.4	315.4	115.1	89.7
95°	101.5	373.9	1253.7	515.3	335.3
97.5°	168.1	418.8	1857.2	1429.9	1035.6
100°	217.2	445.8	2080.1	2094.8	1702.3
102.5°	264.4	476.4	2123.5	2588.2	2216.1
105°	340.0	524.7	2099.0	3204.4	3017.4
107.5°	420.3	584.6	1981.9	3501.6	3569.9
110°	476.9	624.7	1891.2	3565.5	3787.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	527.9	670.1	1806.2	3515.0	3841.9
115°	609.1	736.1	1690.5	3346.6	3806.0
117.5°	680.0	806.5	1614.5	3109.6	3632.2
120°	727.2	851.9	1584.3	2949.1	3475.5
122.5°	772.5	891.7	1559.7	2799.3	3297.9
125°	835.8	951.2	1532.3	2593.2	3043.4
127.5°	889.6	1005.1	1516.3	2419.0	2807.3
130°	925.5	1041.0	1508.7	2312.4	2665.6
132.5°	959.5	1069.4	1501.2	2222.9	2542.8
135°	1005.8	1114.3	1489.8	2100.3	2368.1
137.5°	1057.7	1156.6	1484.2	1997.4	2226.0
140°	1086.1	1183.0	1480.4	1928.8	2129.7
142.5°	1118.2	1207.8	1476.6	1867.8	2044.7
145°	1166.4	1247.2	1470.9	1788.0	1924.3
147.5°	1212.6	1283.3	1465.7	1720.8	1826.5
150°	1246.6	1304.3	1463.8	1680.6	1766.1
152.5°	1273.1	1327.1	1462.0	1646.3	1717.0
155°	1315.1	1359.0	1459.1	1604.3	1655.1
157.5°	1353.8	1387.5	1459.6	1573.7	1608.3
160°	1376.5	1406.5	1461.5	1556.5	1581.9
162.5°	1395.4	1421.7	1463.4	1541.3	1561.1
165°	1423.7	1442.2	1466.2	1523.1	1534.7
167.5°	1445.4	1456.5	1468.6	1512.1	1515.8
170°	1456.8	1466.0	1468.6	1506.3	1506.3
172.5°	1466.2	1471.7	1468.6	1498.7	1496.9
175°	1475.7	1478.0	1468.6	1489.7	1485.1
177.5°	1479.4	1477.6	1468.1	1481.2	1477.5
180°	1475.7	1475.7	1475.7	1475.7	1475.7

(END OF REPORT)