

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: P562925

Luminaire Tested: **SQ4-PC3-100U-075D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562925
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-100U-075D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

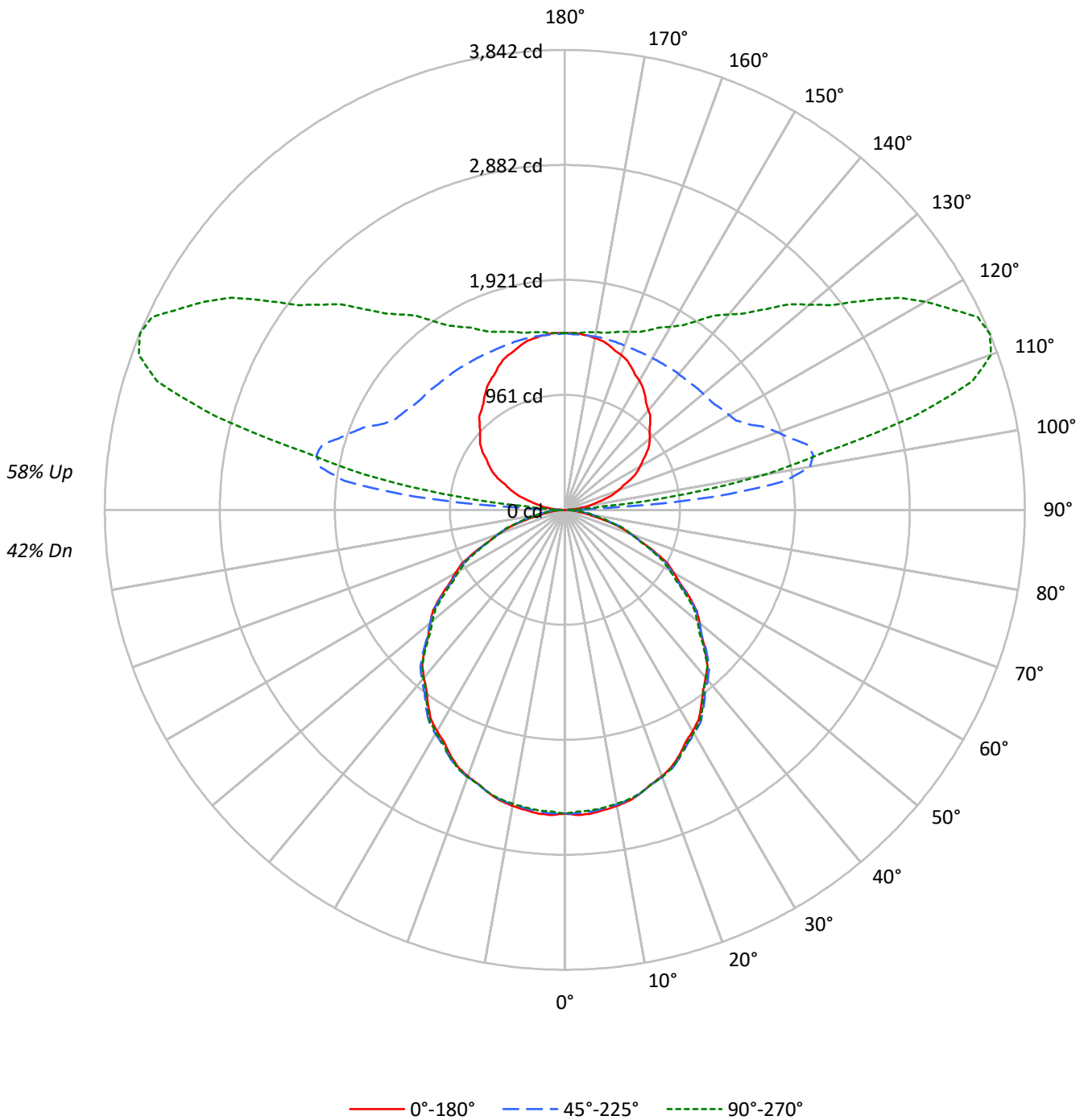
Lumens per Lamp: N/A
Luminaire Lumens: 16515.5 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	49	49	49	42
1	96	92	88	85	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22	19
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7782
10°	7842	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7732	7709
30°	7583	7675	7642
35°	7470	7585	7532
40°	7347	7451	7375
45°	7213	7265	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6343	6242
65°	5983	5864	5812
70°	5239	5281	5260
75°	4215	4661	4690
80°	2995	3953	3994
85°	1824	3317	3317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	1.5
10°-20°	689.1	4.2
20°-30°	1043.5	6.3
30°-40°	1251.0	7.6
40°-50°	1275.6	7.7
50°-60°	1113.5	6.7
60°-70°	797.2	4.8
70°-80°	410.6	2.5
80°-90°	106.9	0.6
90°-100°	691.1	4.2
100°-110°	1907.8	11.6
110°-120°	1967.5	11.9
120°-130°	1581.1	9.6
130°-140°	1242.6	7.5
140°-150°	953.0	5.8
150°-160°	684.9	4.1
160°-170°	418.9	2.5
170°-180°	141.2	0.9
0°-30°	1972.7	11.9
0°-40°	3223.7	19.5
0°-60°	5612.8	34.0
0°-90°	6927.5	41.9
90°-120°	4566.4	27.6
90°-150°	8343.0	50.5
90°-180°	9588.0	58.1
0°-180°	16515.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2537	2537	2537	2537	2537	
5°	2547	2521	2530	2523	2521	242
15°	2450	2430	2450	2450	2448	691
25°	2262	2246	2279	2272	2272	1041
35°	1990	1985	2020	2006	2006	1244
45°	1658	1654	1670	1649	1644	1277
55°	1269	1252	1252	1233	1233	1131
65°	822	804	806	799	799	813
75°	355	371	392	395	395	383
85°	52	79	94	96	94	70
90°	5	9	19	21	24	9
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°	2537.2	2537.2	2537.2	2537.2	2537.2
2.5°	2552.2	2530.1	2537.2	2531.3	2522.1
5°	2546.6	2521.3	2530.1	2523.0	2520.7
7.5°	2528.2	2503.0	2514.6	2509.9	2507.6
10°	2511.3	2486.0	2499.6	2494.8	2492.5
12.5°	2488.8	2465.3	2480.8	2476.1	2475.6
15°	2450.2	2429.6	2450.2	2450.2	2447.9
17.5°	2401.8	2383.0	2405.1	2406.5	2405.1
20°	2368.0	2347.3	2375.1	2372.8	2375.1
22.5°	2326.7	2309.7	2339.4	2333.3	2335.6
25°	2262.3	2246.2	2278.7	2271.7	2271.7
27.5°	2186.2	2174.7	2210.1	2202.6	2202.6
30°	2135.4	2124.0	2161.3	2151.9	2151.9
32.5°	2079.1	2071.2	2106.8	2095.5	2095.5
35°	1989.8	1985.2	2020.3	2006.2	2006.2
37.5°	1897.7	1893.6	1925.4	1908.4	1902.9
40°	1830.0	1827.7	1855.9	1837.1	1837.1
42.5°	1762.4	1760.1	1784.5	1761.9	1761.9
45°	1658.5	1654.0	1670.3	1649.0	1644.5
47.5°	1545.3	1540.7	1551.0	1527.9	1525.6
50°	1468.3	1463.7	1468.3	1447.1	1444.8
52.5°	1389.3	1381.1	1381.8	1360.7	1360.2
55°	1268.6	1252.5	1252.1	1233.3	1233.3
57.5°	1140.8	1119.6	1121.5	1105.5	1103.2
60°	1052.4	1029.5	1031.3	1017.2	1014.9
62.5°	966.0	939.4	944.9	928.9	928.4
65°	822.2	803.8	805.8	798.7	798.7
67.5°	684.1	667.1	679.4	673.7	673.3
70°	582.6	571.1	587.3	587.3	585.0
72.5°	488.6	488.2	508.4	508.4	509.8
75°	354.7	370.8	392.3	394.7	394.7
77.5°	236.8	265.3	289.0	289.9	289.4
80°	169.1	201.3	223.2	227.8	225.5
82.5°	114.6	148.6	166.8	171.4	169.1
85°	51.7	79.2	94.0	96.3	94.0
87.5°	16.0	33.4	41.4	41.8	38.6
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)