

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: P562933

Luminaire Tested: **SQ4-PC3-100U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562933
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17941.8 lumens
Efficiency: N/A
Efficacy: 117.0 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

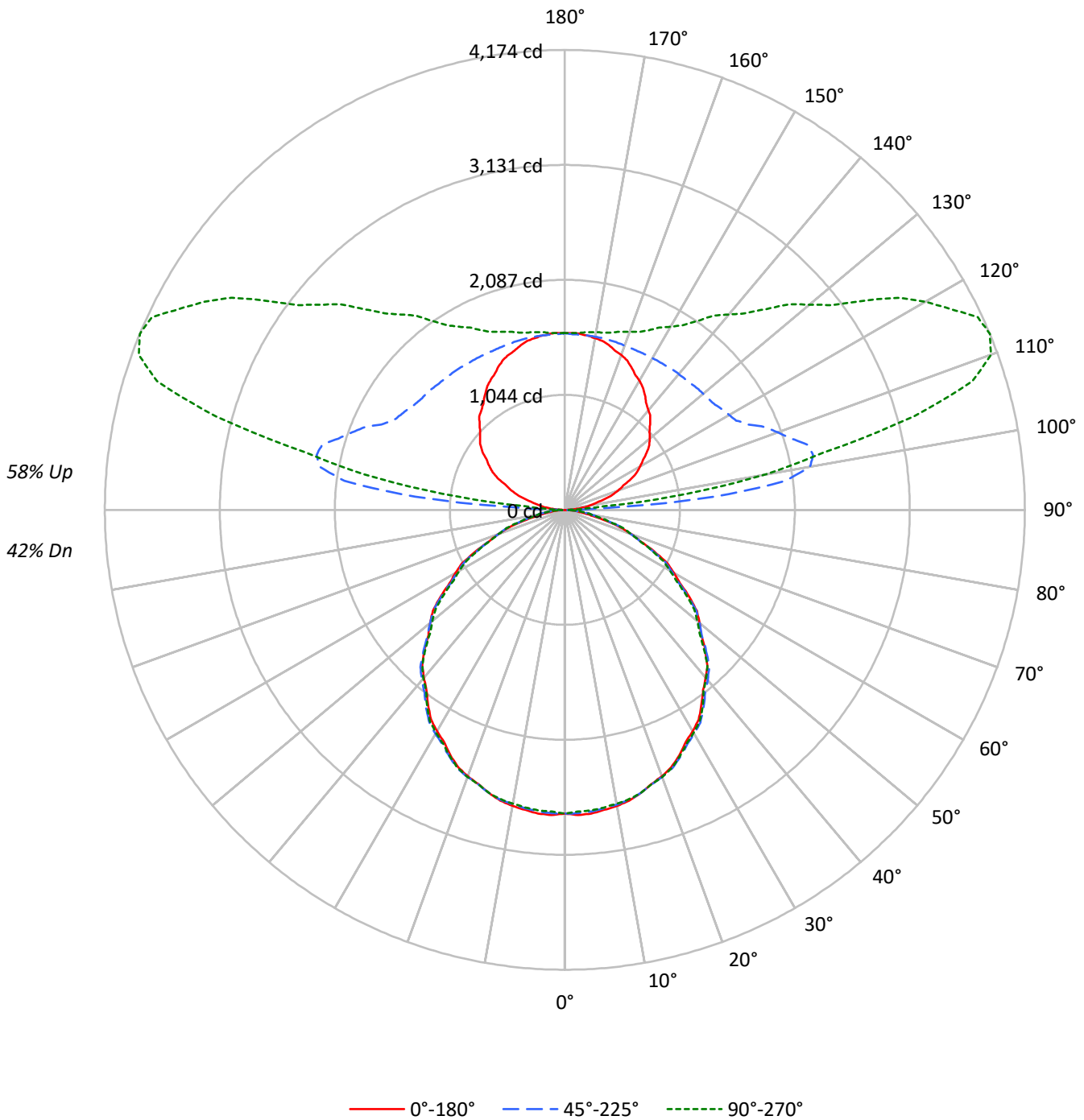
Input Watts (W): 153.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	8477	8477	8477
5°	8541	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8419	8444	8444
25°	8340	8400	8374
30°	8238	8338	8302
35°	8115	8240	8183
40°	7982	8094	8012
45°	7837	7892	7770
50°	7632	7632	7509
55°	7389	7294	7184
60°	7032	6891	6781
65°	6500	6370	6314
70°	5691	5737	5714
75°	4579	5064	5095
80°	3255	4295	4339
85°	1980	3603	3603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	1.5
10°-20°	748.6	4.2
20°-30°	1133.6	6.3
30°-40°	1359.0	7.6
40°-50°	1385.8	7.7
50°-60°	1209.7	6.7
60°-70°	866.0	4.8
70°-80°	446.1	2.5
80°-90°	116.1	0.6
90°-100°	750.7	4.2
100°-110°	2072.5	11.6
110°-120°	2137.5	11.9
120°-130°	1717.6	9.6
130°-140°	1349.9	7.5
140°-150°	1035.3	5.8
150°-160°	744.1	4.1
160°-170°	455.0	2.5
170°-180°	153.4	0.9
0°-30°	2143.0	11.9
0°-40°	3502.1	19.5
0°-60°	6097.5	34.0
0°-90°	7525.7	41.9
90°-120°	4960.7	27.6
90°-150°	9063.6	50.5
90°-180°	10416.0	58.1
0°-180°	17941.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2756	2756	2756	2756	2756	
5°	2766	2739	2749	2741	2738	263
15°	2662	2639	2662	2662	2659	751
25°	2458	2440	2476	2468	2468	1131
35°	2162	2157	2195	2180	2180	1352
45°	1802	1797	1814	1792	1786	1387
55°	1378	1361	1360	1340	1340	1229
65°	893	873	875	868	868	883
75°	385	403	426	429	429	416
85°	56	86	102	105	102	76
90°	5	10	20	23	26	10
95°	110	406	1362	560	364	118
105°	369	570	2280	3481	3278	393
115°	662	800	1836	3636	4135	650
125°	908	1033	1665	2817	3306	808
135°	1093	1210	1618	2282	2573	845
145°	1267	1355	1598	1942	2090	793
155°	1429	1476	1585	1743	1798	658
165°	1547	1567	1593	1655	1667	436
175°	1603	1606	1595	1618	1613	152
180°	1603	1603	1603	1603	1603	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2756.3	2756.3	2756.3	2756.3	2756.3
2.5°	2772.6	2748.7	2756.3	2749.9	2739.9
5°	2766.5	2739.0	2748.6	2740.9	2738.4
7.5°	2746.6	2719.1	2731.8	2726.6	2724.1
10°	2728.2	2700.8	2715.4	2710.3	2707.8
12.5°	2703.7	2678.3	2695.0	2689.9	2689.4
15°	2661.8	2639.4	2661.8	2661.8	2659.3
17.5°	2609.3	2588.8	2612.8	2614.3	2612.8
20°	2572.5	2550.1	2580.2	2577.7	2580.2
22.5°	2527.6	2509.1	2541.4	2534.8	2537.3
25°	2457.7	2440.2	2475.5	2467.9	2467.9
27.5°	2375.0	2362.5	2401.0	2392.9	2392.9
30°	2319.9	2307.4	2347.9	2337.7	2337.7
32.5°	2258.6	2250.1	2288.7	2276.5	2276.5
35°	2161.6	2156.6	2194.8	2179.5	2179.5
37.5°	2061.6	2057.1	2091.7	2073.2	2067.2
40°	1988.1	1985.6	2016.2	1995.7	1995.7
42.5°	1914.6	1912.1	1938.6	1914.1	1914.1
45°	1801.8	1796.8	1814.5	1791.5	1786.5
47.5°	1678.8	1673.8	1684.9	1659.8	1657.3
50°	1595.1	1590.1	1595.1	1572.0	1569.5
52.5°	1509.3	1500.3	1501.2	1478.2	1477.7
55°	1378.1	1360.7	1360.3	1339.9	1339.9
57.5°	1239.3	1216.3	1218.4	1201.0	1198.5
60°	1143.3	1118.4	1120.4	1105.0	1102.5
62.5°	1049.4	1020.5	1026.5	1009.1	1008.6
65°	893.2	873.3	875.4	867.7	867.7
67.5°	743.2	724.7	738.1	731.9	731.4
70°	632.9	620.4	638.0	638.0	635.5
72.5°	530.8	530.3	552.3	552.3	553.8
75°	385.4	402.8	426.2	428.8	428.8
77.5°	257.3	288.2	313.9	314.9	314.4
80°	183.8	218.7	242.5	247.5	245.0
82.5°	124.5	161.5	181.2	186.2	183.8
85°	56.1	86.1	102.1	104.6	102.1
87.5°	17.4	36.3	44.9	45.4	41.9
90°	5.1	10.1	20.5	23.1	25.6
92.5°	46.2	191.6	342.7	125.1	97.5
95°	110.3	406.2	1362.0	559.8	364.2
97.5°	182.6	455.0	2017.6	1553.3	1125.0
100°	236.0	484.3	2259.7	2275.7	1849.3
102.5°	287.3	517.5	2306.9	2811.8	2407.5
105°	369.4	570.0	2280.2	3481.2	3278.0
107.5°	456.6	635.1	2153.0	3804.0	3878.2
110°	518.1	678.6	2054.5	3873.4	4114.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	573.5	728.0	1962.2	3818.6	4173.7
115°	661.8	799.7	1836.5	3635.6	4134.7
117.5°	738.7	876.1	1753.9	3378.1	3945.9
120°	790.0	925.4	1721.1	3203.8	3775.6
122.5°	839.3	968.7	1694.4	3041.0	3582.7
125°	908.0	1033.4	1664.7	2817.2	3306.2
127.5°	966.5	1091.9	1647.2	2627.9	3049.7
130°	1005.5	1130.9	1639.0	2512.1	2895.8
132.5°	1042.4	1161.8	1630.8	2414.9	2762.5
135°	1092.7	1210.5	1618.5	2281.7	2572.7
137.5°	1149.1	1256.4	1612.3	2170.0	2418.2
140°	1179.9	1285.2	1608.2	2095.4	2313.6
142.5°	1214.8	1312.1	1604.1	2029.1	2221.3
145°	1267.1	1354.9	1598.0	1942.5	2090.4
147.5°	1317.4	1394.1	1592.3	1869.4	1984.2
150°	1354.3	1417.0	1590.3	1825.8	1918.6
152.5°	1383.0	1441.7	1588.2	1788.5	1865.2
155°	1428.7	1476.3	1585.1	1742.9	1798.0
157.5°	1470.7	1507.4	1585.7	1709.6	1747.2
160°	1495.4	1528.0	1587.7	1690.9	1718.5
162.5°	1515.9	1544.5	1589.8	1674.4	1695.9
165°	1546.7	1566.7	1592.8	1654.7	1667.2
167.5°	1570.3	1582.3	1595.4	1642.7	1646.7
170°	1582.6	1592.6	1595.4	1636.4	1636.4
172.5°	1592.8	1598.9	1595.4	1628.2	1626.2
175°	1603.1	1605.6	1595.4	1618.4	1613.4
177.5°	1607.2	1605.2	1594.9	1609.2	1605.1
180°	1603.1	1603.1	1603.1	1603.1	1603.1

(END OF REPORT)