

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: P562924

Luminaire Tested: **SQ4-PC3-100U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562924
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-840-1D-UNV-STD-W-8
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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

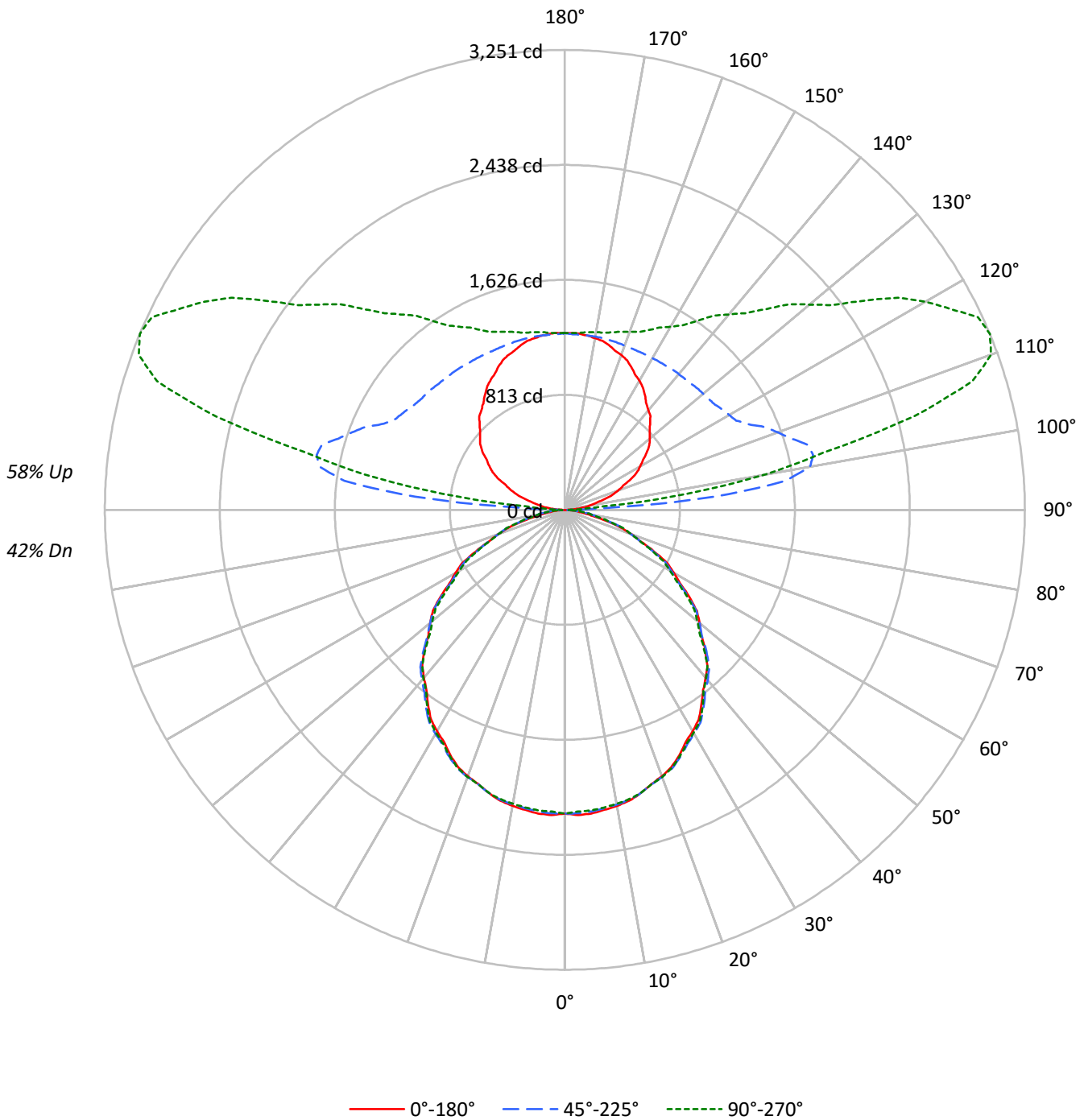
Lumens per Lamp: N/A
Luminaire Lumens: 13975.5 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 103.9
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°	9904	9904	9904
5°	9979	9914	9877
10°	9955	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9784
30°	9625	9742	9699
35°	9482	9628	9561
40°	9326	9458	9362
45°	9156	9221	9079
50°	8917	8917	8774
55°	8634	8522	8394
60°	8217	8052	7923
65°	7595	7443	7378
70°	6649	6703	6676
75°	5351	5917	5953
80°	3802	5018	5069
85°	2313	4208	4208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.5
10°-20°	583.1	4.2
20°-30°	883.0	6.3
30°-40°	1058.6	7.6
40°-50°	1079.4	7.7
50°-60°	942.3	6.7
60°-70°	674.6	4.8
70°-80°	347.5	2.5
80°-90°	90.4	0.6
90°-100°	584.8	4.2
100°-110°	1614.4	11.6
110°-120°	1664.9	11.9
120°-130°	1337.9	9.6
130°-140°	1051.5	7.5
140°-150°	806.4	5.8
150°-160°	579.6	4.1
160°-170°	354.4	2.5
170°-180°	119.5	0.9
0°-30°	1669.3	11.9
0°-40°	2727.9	19.5
0°-60°	4749.6	34.0
0°-90°	5862.1	41.9
90°-120°	3864.1	27.6
90°-150°	7060.0	50.5
90°-180°	8113.0	58.1
0°-180°	13975.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2147	2147	2147	2147	2147	
5°	2155	2134	2141	2135	2133	205
15°	2073	2056	2073	2073	2071	585
25°	1914	1901	1928	1922	1922	881
35°	1684	1680	1710	1698	1698	1053
45°	1404	1400	1413	1395	1392	1080
55°	1074	1060	1060	1044	1044	957
65°	696	680	682	676	676	688
75°	300	314	332	334	334	324
85°	44	67	80	82	80	60
90°	4	8	16	18	20	8
95°	86	316	1061	436	284	92
105°	288	444	1776	2712	2553	306
115°	516	623	1430	2832	3221	507
125°	707	805	1297	2194	2575	629
135°	851	943	1261	1777	2004	659
145°	987	1055	1245	1513	1628	618
155°	1113	1150	1235	1358	1401	513
165°	1205	1220	1241	1289	1299	340
175°	1249	1251	1243	1261	1257	119
180°	1249	1249	1249	1249	1249	

TEST NUMBER: P562924

CATALOG NUMBER: SQ4-PC3-100U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2147.0	2147.0	2147.0	2147.0	2147.0
2.5°	2159.7	2141.0	2147.0	2142.0	2134.2
5°	2154.9	2133.5	2141.0	2135.0	2133.0
7.5°	2139.4	2118.0	2127.9	2123.9	2121.9
10°	2125.1	2103.7	2115.2	2111.1	2109.2
12.5°	2106.0	2086.2	2099.3	2095.3	2094.9
15°	2073.4	2055.9	2073.4	2073.4	2071.4
17.5°	2032.5	2016.5	2035.2	2036.4	2035.2
20°	2003.8	1986.3	2009.8	2007.9	2009.8
22.5°	1968.8	1954.5	1979.6	1974.5	1976.4
25°	1914.4	1900.8	1928.3	1922.3	1922.3
27.5°	1850.0	1840.2	1870.2	1863.9	1863.9
30°	1807.0	1797.3	1828.9	1820.9	1820.9
32.5°	1759.3	1752.7	1782.8	1773.2	1773.2
35°	1683.8	1679.9	1709.6	1697.7	1697.7
37.5°	1605.8	1602.4	1629.3	1614.9	1610.2
40°	1548.6	1546.7	1570.5	1554.6	1554.6
42.5°	1491.3	1489.4	1510.0	1490.9	1490.9
45°	1403.5	1399.6	1413.4	1395.4	1391.6
47.5°	1307.7	1303.8	1312.4	1292.9	1291.0
50°	1242.5	1238.6	1242.5	1224.5	1222.6
52.5°	1175.7	1168.7	1169.3	1151.4	1151.0
55°	1073.5	1059.9	1059.6	1043.7	1043.7
57.5°	965.3	947.5	949.0	935.5	933.5
60°	890.6	871.2	872.7	860.7	858.8
62.5°	817.4	794.9	799.5	786.0	785.6
65°	695.8	680.2	681.9	675.9	675.9
67.5°	578.9	564.5	574.9	570.1	569.7
70°	493.0	483.3	497.0	496.9	495.0
72.5°	413.5	413.1	430.2	430.2	431.4
75°	300.2	313.8	332.0	334.0	334.0
77.5°	200.4	224.5	244.5	245.3	244.9
80°	143.1	170.3	188.9	192.8	190.8
82.5°	97.0	125.8	141.1	145.1	143.1
85°	43.7	67.1	79.5	81.5	79.5
87.5°	13.5	28.3	35.0	35.3	32.6
90°	4.0	7.9	16.0	18.0	20.0
92.5°	36.0	149.3	266.9	97.4	75.9
95°	85.9	316.4	1060.9	436.1	283.7
97.5°	142.3	354.4	1571.6	1210.0	876.3
100°	183.8	377.2	1760.2	1772.6	1440.5
102.5°	223.8	403.1	1796.9	2190.2	1875.3
105°	287.7	444.0	1776.2	2711.6	2553.4
107.5°	355.6	494.7	1677.1	2963.1	3020.9
110°	403.6	528.6	1600.3	3017.1	3204.7



TEST NUMBER: P562924

CATALOG NUMBER: SQ4-PC3-100U-075D-840-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.7	567.1	1528.4	2974.4	3251.0
115°	515.5	622.9	1430.5	2831.9	3220.7
117.5°	575.4	682.5	1366.2	2631.3	3073.6
120°	615.4	720.9	1340.6	2495.6	2941.0
122.5°	653.7	754.5	1319.8	2368.8	2790.7
125°	707.3	804.9	1296.7	2194.4	2575.3
127.5°	752.8	850.5	1283.1	2047.0	2375.5
130°	783.2	880.9	1276.7	1956.8	2255.7
132.5°	812.0	904.9	1270.3	1881.0	2151.8
135°	851.1	942.9	1260.7	1777.3	2003.9
137.5°	895.1	978.7	1255.9	1690.3	1883.7
140°	919.1	1001.1	1252.7	1632.2	1802.1
142.5°	946.2	1022.0	1249.5	1580.6	1730.2
145°	987.0	1055.4	1244.7	1513.1	1628.3
147.5°	1026.1	1085.9	1240.3	1456.1	1545.6
150°	1054.9	1103.7	1238.7	1422.2	1494.5
152.5°	1077.3	1123.0	1237.1	1393.1	1452.9
155°	1112.9	1150.0	1234.7	1357.6	1400.6
157.5°	1145.6	1174.1	1235.1	1331.7	1361.0
160°	1164.8	1190.2	1236.7	1317.1	1338.6
162.5°	1180.8	1203.1	1238.3	1304.2	1321.0
165°	1204.8	1220.4	1240.7	1288.9	1298.7
167.5°	1223.1	1232.5	1242.7	1279.5	1282.7
170°	1232.7	1240.5	1242.7	1274.7	1274.7
172.5°	1240.7	1245.4	1242.7	1268.3	1266.7
175°	1248.7	1250.7	1242.7	1260.6	1256.7
177.5°	1251.9	1250.3	1242.3	1253.4	1250.3
180°	1248.7	1248.7	1248.7	1248.7	1248.7

(END OF REPORT)