

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: P563605

Luminaire Tested: **SQ4-PP3-100U-075D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563605
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

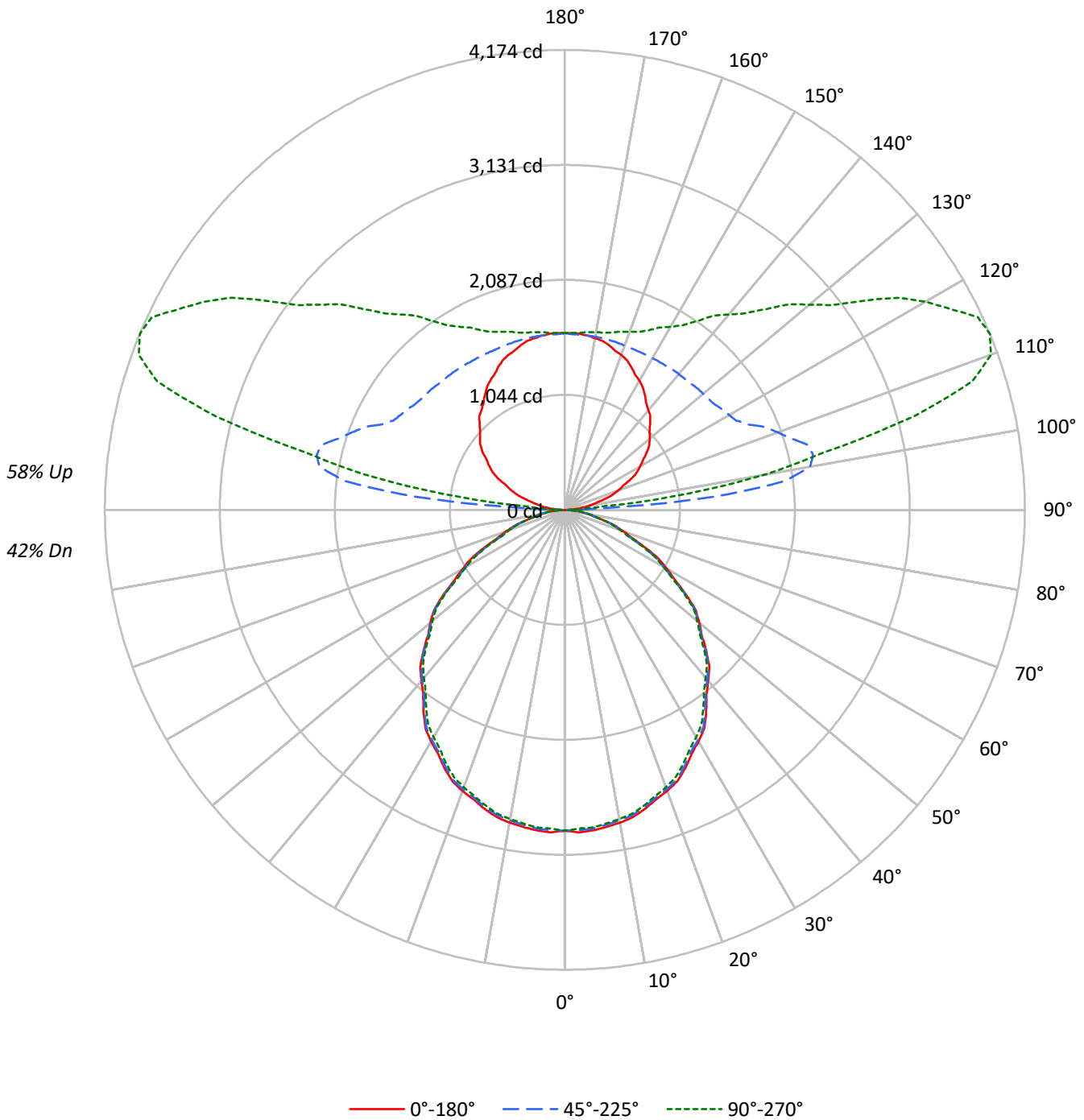
Lumens per Lamp: N/A
Luminaire Lumens: 17870.6 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	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°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8571	8463
35°	8391	8334	8228
40°	8123	8072	7980
45°	7901	7846	7768
50°	7617	7569	7495
55°	7223	7127	7073
60°	6576	6388	6356
65°	5793	5552	5533
70°	5001	4795	4795
75°	4305	4244	4184
80°	3795	3841	3751
85°	2971	3243	3243



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	1.5
10°-20°	786.0	4.4
20°-30°	1177.4	6.6
30°-40°	1381.0	7.7
40°-50°	1385.3	7.8
50°-60°	1181.8	6.6
60°-70°	770.7	4.3
70°-80°	386.7	2.2
80°-90°	110.3	0.6
90°-100°	750.7	4.2
100°-110°	2072.5	11.6
110°-120°	2137.5	12.0
120°-130°	1717.6	9.6
130°-140°	1349.9	7.6
140°-150°	1035.3	5.8
150°-160°	744.1	4.2
160°-170°	455.0	2.5
170°-180°	153.4	0.9
0°-30°	2238.7	12.5
0°-40°	3619.7	20.3
0°-60°	6186.8	34.6
0°-90°	7454.5	41.7
90°-120°	4960.7	27.8
90°-150°	9063.6	50.7
90°-180°	10416.0	58.3
0°-180°	17870.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2911	2911	2911	2911	2911	
5°	2922	2894	2904	2893	2893	277
15°	2809	2782	2794	2784	2779	793
25°	2587	2557	2569	2546	2544	1190
35°	2235	2213	2220	2194	2192	1396
45°	1817	1804	1804	1786	1786	1399
55°	1347	1342	1329	1322	1319	1197
65°	796	781	763	758	760	794
75°	362	362	357	355	352	393
85°	84	92	92	92	92	99
90°	5	10	20	23	26	11
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	

TEST NUMBER: P563605

CATALOG NUMBER: SQ4-PP3-100U-075D-940-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2911.3	2911.3	2911.3	2911.3	2911.3
2.5°	2929.6	2905.7	2911.3	2906.9	2894.9
5°	2921.5	2894.0	2903.6	2893.4	2893.4
7.5°	2901.6	2871.6	2881.2	2870.9	2870.4
10°	2883.2	2853.3	2862.8	2852.5	2850.0
12.5°	2856.7	2826.7	2838.3	2826.0	2825.5
15°	2809.2	2781.8	2793.9	2783.6	2778.6
17.5°	2755.6	2725.7	2740.3	2726.0	2724.0
20°	2714.8	2684.9	2699.5	2679.1	2679.1
22.5°	2665.8	2635.9	2652.5	2626.0	2626.0
25°	2587.2	2557.3	2569.4	2546.3	2543.8
27.5°	2493.8	2464.4	2477.0	2451.0	2450.5
30°	2426.5	2399.0	2413.7	2385.6	2383.1
32.5°	2353.0	2327.5	2338.2	2310.1	2307.6
35°	2235.1	2212.7	2219.8	2194.2	2191.7
37.5°	2111.1	2088.2	2096.3	2074.3	2073.4
40°	2023.3	2008.4	2010.6	1992.6	1987.6
42.5°	1941.7	1924.7	1926.9	1909.0	1908.0
45°	1816.7	1804.2	1803.9	1786.1	1786.1
47.5°	1684.0	1674.5	1671.7	1656.9	1656.4
50°	1592.1	1584.7	1581.9	1569.1	1566.6
52.5°	1496.2	1492.7	1484.0	1473.2	1472.7
55°	1347.2	1342.2	1329.3	1321.6	1319.1
57.5°	1185.4	1175.4	1160.9	1149.8	1151.7
60°	1069.1	1059.1	1038.5	1033.4	1033.4
62.5°	956.8	944.8	924.2	917.1	921.1
65°	796.1	781.1	762.9	757.9	760.3
67.5°	650.1	636.7	617.0	616.9	614.9
70°	556.2	548.7	533.3	533.3	533.3
72.5°	472.5	469.0	457.7	457.7	455.7
75°	362.3	362.3	357.2	354.6	352.1
77.5°	271.5	272.5	269.9	267.3	262.8
80°	214.3	219.3	216.9	214.3	211.8
82.5°	161.3	166.2	165.8	161.2	160.7
85°	84.2	91.7	91.9	91.9	91.9
87.5°	23.5	32.5	36.8	37.3	39.8
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

TEST NUMBER: P563605

CATALOG NUMBER: SQ4-PP3-100U-075D-940-1D-UNV-STD-W-12

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)