

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: P563700

Luminaire Tested: **SQ4-PP3-125U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563700
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

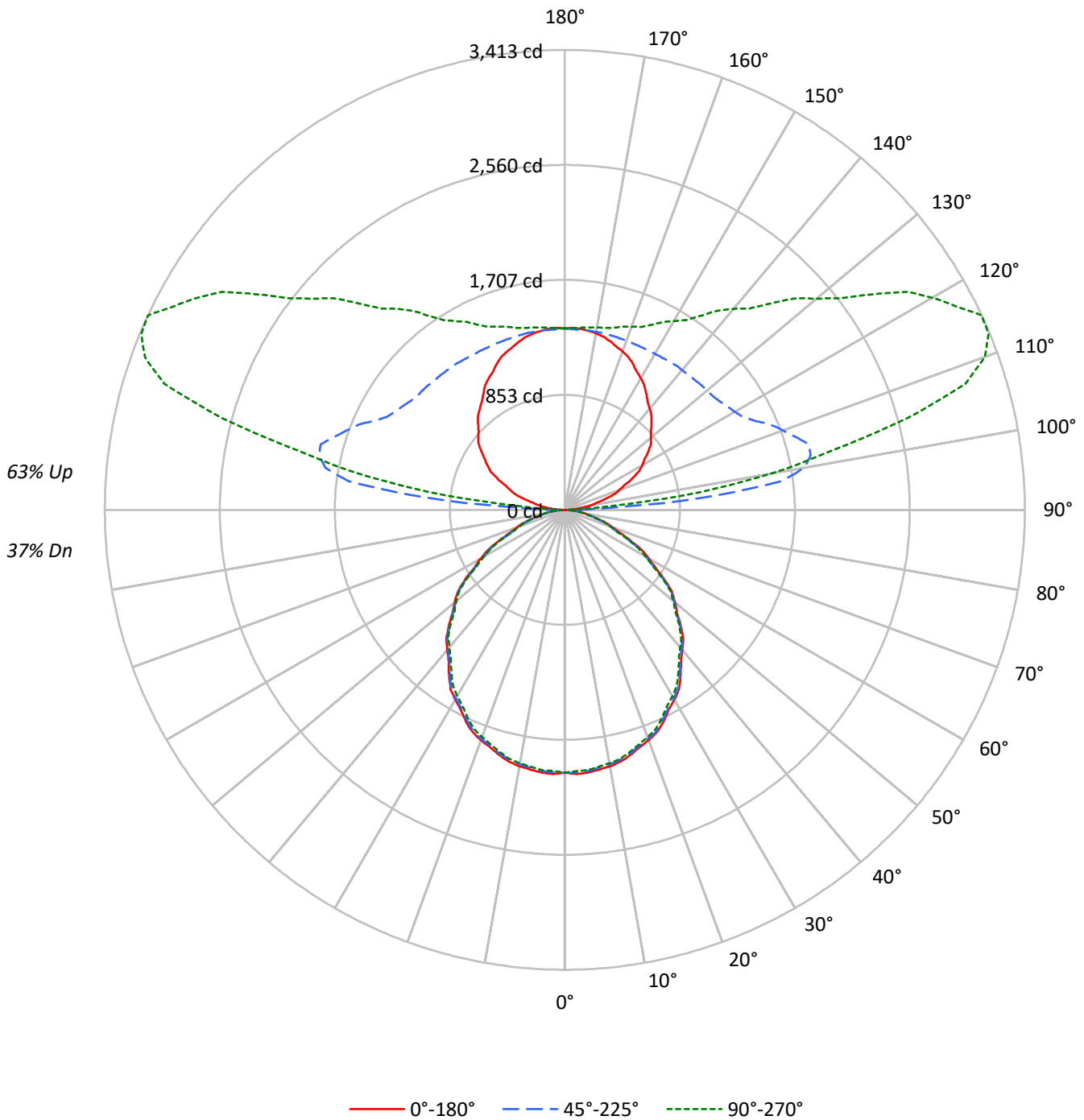
Lumens per Lamp: N/A
Luminaire Lumens: 13683.7 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 116
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7942	7885	7808
50°	7656	7607	7533
55°	7260	7164	7109
60°	6610	6420	6388
65°	5822	5580	5561
70°	5027	4819	4819
75°	4328	4267	4205
80°	3815	3860	3770
85°	2985	3255	3255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	1.3
10°-20°	526.7	3.8
20°-30°	788.9	5.8
30°-40°	925.4	6.8
40°-50°	928.3	6.8
50°-60°	791.9	5.8
60°-70°	516.4	3.8
70°-80°	259.1	1.9
80°-90°	74.9	0.5
90°-100°	629.6	4.6
100°-110°	1695.9	12.4
110°-120°	1779.8	13.0
120°-130°	1444.2	10.6
130°-140°	1132.7	8.3
140°-150°	869.6	6.4
150°-160°	625.2	4.6
160°-170°	382.0	2.8
170°-180°	128.8	0.9
0°-30°	1500.1	11.0
0°-40°	2425.5	17.7
0°-60°	4145.6	30.3
0°-90°	4996.0	36.5
90°-120°	4105.2	30.0
90°-150°	7551.7	55.2
90°-180°	8688.0	63.5
0°-180°	13683.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1958	1939	1946	1939	1939	186
15°	1882	1864	1872	1865	1862	531
25°	1734	1714	1722	1706	1705	797
35°	1498	1483	1487	1470	1469	936
45°	1217	1209	1209	1197	1197	937
55°	903	899	891	886	884	802
65°	533	523	511	508	510	532
75°	243	243	239	238	236	263
85°	56	61	62	62	62	66
90°	3	10	21	22	22	9
95°	96	342	1032	528	365	100
105°	314	488	1876	2806	2633	330
115°	554	678	1562	3018	3413	545
125°	756	868	1402	2370	2789	675
135°	910	1016	1363	1912	2165	703
145°	1053	1135	1346	1635	1756	660
155°	1195	1238	1334	1467	1514	550
165°	1296	1311	1339	1392	1399	365
175°	1348	1346	1341	1359	1356	128
180°	1346	1346	1346	1346	1346	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1963.1	1947.0	1950.7	1947.8	1939.8
5°	1957.6	1939.2	1945.6	1938.8	1938.8
7.5°	1944.3	1924.2	1930.6	1923.7	1923.4
10°	1931.9	1911.9	1918.3	1911.4	1909.7
12.5°	1914.2	1894.1	1901.9	1893.6	1893.3
15°	1882.4	1864.0	1872.1	1865.2	1861.8
17.5°	1846.5	1826.4	1836.2	1826.6	1825.3
20°	1819.1	1799.0	1808.8	1795.2	1795.2
22.5°	1786.3	1766.2	1777.4	1759.6	1759.6
25°	1733.6	1713.6	1721.7	1706.2	1704.6
27.5°	1671.0	1651.3	1659.8	1642.3	1642.0
30°	1625.9	1607.5	1617.4	1598.5	1596.8
32.5°	1576.7	1559.6	1566.8	1547.9	1546.2
35°	1497.7	1482.6	1487.4	1470.3	1468.6
37.5°	1414.6	1399.2	1404.7	1390.0	1389.3
40°	1355.8	1345.7	1347.2	1335.2	1331.8
42.5°	1301.1	1289.7	1291.2	1279.2	1278.5
45°	1217.3	1208.9	1208.7	1196.8	1196.8
47.5°	1128.4	1122.0	1120.2	1110.3	1109.9
50°	1066.8	1061.8	1060.0	1051.4	1049.7
52.5°	1002.6	1000.2	994.4	987.2	986.8
55°	902.7	899.4	890.7	885.6	883.9
57.5°	794.3	787.6	777.9	770.4	771.8
60°	716.4	709.7	695.8	692.4	692.4
62.5°	641.1	633.1	619.2	614.5	617.2
65°	533.4	523.4	511.2	507.8	509.5
67.5°	435.6	426.6	413.4	413.4	412.0
70°	372.7	367.7	357.3	357.3	357.3
72.5°	316.6	314.3	306.7	306.7	305.3
75°	242.8	242.8	239.4	237.6	235.9
77.5°	181.9	182.6	180.9	179.1	176.1
80°	143.6	147.0	145.3	143.6	141.9
82.5°	108.1	111.4	111.1	108.0	107.7
85°	56.4	61.4	61.5	61.5	61.5
87.5°	15.7	22.4	26.0	26.4	27.7
90°	3.4	10.1	20.6	22.3	22.3
92.5°	41.8	147.8	292.1	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.3	392.0	1618.7	1352.3	1019.7
100°	197.2	411.7	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1866.9	2290.6	2026.4
105°	313.7	488.1	1875.5	2805.9	2633.3
107.5°	383.7	539.2	1795.6	3070.7	3115.3
110°	430.3	577.8	1722.9	3153.0	3315.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	479.7	616.5	1653.0	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.3
117.5°	621.3	737.6	1491.2	2830.8	3271.3
120°	665.2	777.5	1455.5	2696.7	3149.3
122.5°	703.6	814.5	1429.4	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.3
127.5°	806.4	917.1	1385.2	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.6	2436.1
132.5°	866.8	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1362.9	1912.1	2165.2
137.5°	951.8	1053.1	1358.5	1817.8	2025.7
140°	980.6	1077.8	1354.3	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.9
145°	1052.6	1134.8	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1339.9	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.5	1209.5	1335.8	1507.3	1571.4
155°	1194.9	1238.5	1333.8	1466.8	1513.8
157.5°	1229.5	1263.4	1334.1	1438.4	1469.9
160°	1251.5	1280.0	1335.5	1421.7	1445.2
162.5°	1270.7	1293.8	1336.9	1407.9	1424.6
165°	1296.1	1311.1	1338.9	1392.2	1398.9
167.5°	1316.6	1325.3	1340.6	1380.1	1382.8
170°	1330.3	1333.7	1340.6	1373.2	1373.2
172.5°	1338.6	1339.2	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.6	1359.4	1356.1
177.5°	1351.3	1348.6	1341.7	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)