

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: P564356

Luminaire Tested: **SQ4-PR1-125U-075D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564356
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-075D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

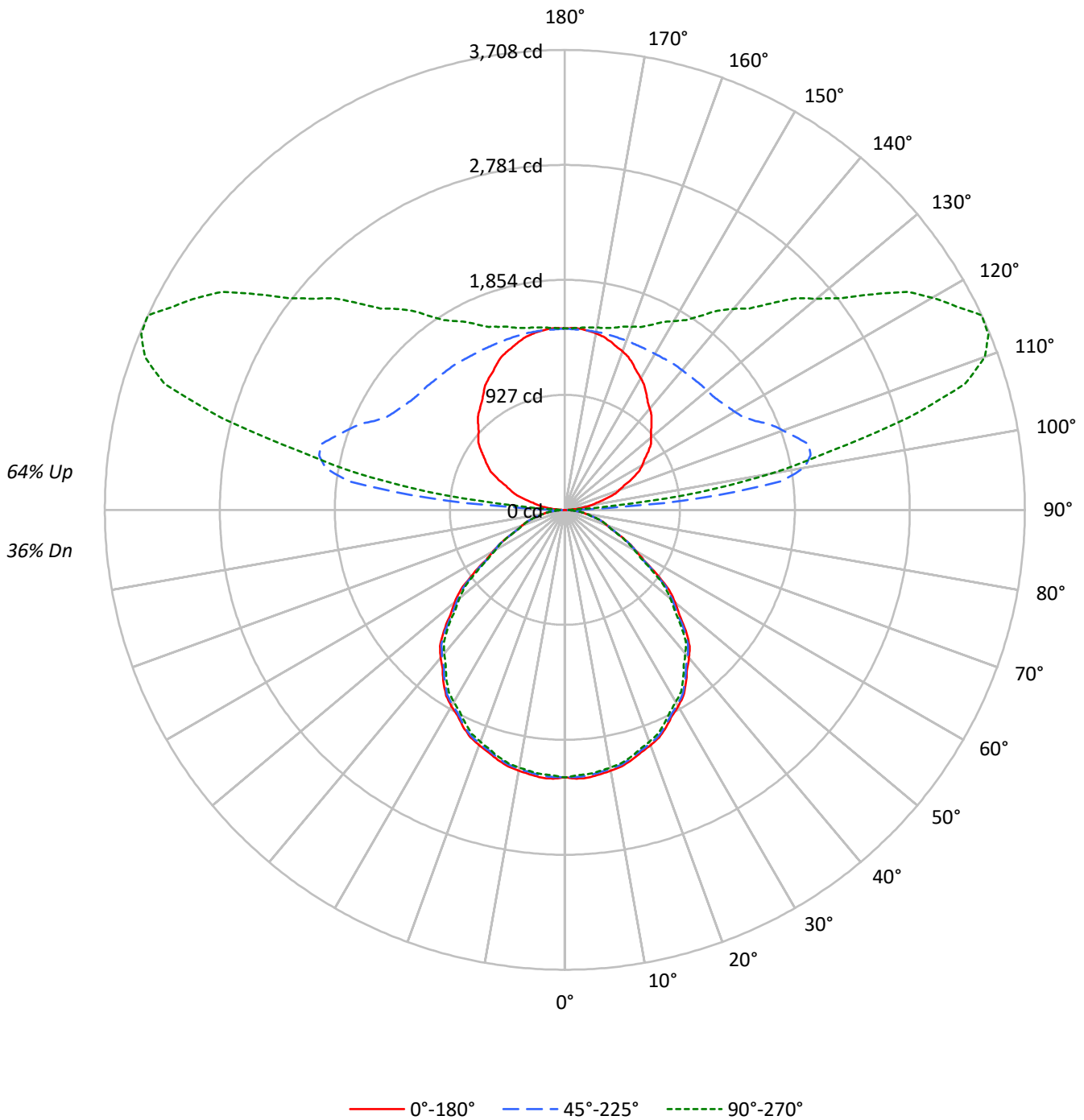
Lumens per Lamp: N/A
Luminaire Lumens: 14832.8 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 116
Input Voltage (V): 120
Input Current (A_{in}): 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	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9885
15°	9963	9901	9848
20°	9913	9849	9776
25°	9844	9777	9664
30°	9737	9668	9530
35°	9593	9509	9374
40°	9374	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5293	5313	5272
70°	4861	4887	4887
75°	4668	4668	4702
80°	4391	4442	4391
85°	3541	3933	3933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	1.4
10°-20°	583.5	3.9
20°-30°	880.2	5.9
30°-40°	1048.7	7.1
40°-50°	1033.9	7.0
50°-60°	790.2	5.3
60°-70°	489.0	3.3
70°-80°	277.7	1.9
80°-90°	87.9	0.6
90°-100°	683.9	4.6
100°-110°	1842.3	12.4
110°-120°	1933.4	13.0
120°-130°	1568.9	10.6
130°-140°	1230.4	8.3
140°-150°	944.7	6.4
150°-160°	679.2	4.6
160°-170°	415.0	2.8
170°-180°	139.9	0.9
0°-30°	1667.7	11.2
0°-40°	2716.4	18.3
0°-60°	4540.5	30.6
0°-90°	5395.1	36.4
90°-120°	4459.5	30.1
90°-150°	8203.5	55.3
90°-180°	9438.0	63.6
0°-180°	14832.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2168	2144	2151	2144	2140	206
15°	2086	2064	2073	2066	2062	589
25°	1934	1910	1921	1900	1899	890
35°	1704	1684	1689	1666	1664	1063
45°	1378	1360	1354	1330	1326	1056
55°	903	888	882	868	864	809
65°	485	481	487	483	483	491
75°	262	262	262	264	264	277
85°	67	70	74	74	74	78
90°	4	11	22	24	24	10
95°	104	372	1121	573	397	109
105°	341	530	2037	3048	2861	358
115°	602	736	1697	3278	3708	592
125°	821	943	1523	2575	3030	733
135°	989	1104	1481	2077	2352	763
145°	1144	1233	1462	1776	1907	717
155°	1298	1345	1449	1594	1644	598
165°	1408	1424	1454	1512	1520	397
175°	1464	1462	1456	1477	1473	139
180°	1462	1462	1462	1462	1462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2156.8	2156.8	2156.8	2156.8	2156.8
2.5°	2170.2	2151.3	2156.8	2152.1	2141.9
5°	2167.9	2144.3	2151.2	2143.7	2140.1
7.5°	2151.2	2128.0	2134.9	2127.4	2125.2
10°	2136.3	2114.6	2121.5	2114.0	2110.3
12.5°	2120.0	2096.7	2105.1	2096.1	2092.5
15°	2086.2	2064.4	2073.2	2065.7	2062.0
17.5°	2049.0	2025.8	2034.5	2025.9	2021.2
20°	2019.3	1997.5	2006.3	1993.3	1991.4
22.5°	1986.6	1964.8	1973.6	1956.1	1955.8
25°	1933.9	1910.2	1920.9	1900.4	1898.6
27.5°	1871.1	1849.3	1858.1	1837.2	1835.0
30°	1828.0	1806.2	1815.0	1792.6	1789.0
32.5°	1778.9	1758.6	1765.9	1743.6	1741.4
35°	1703.5	1683.5	1688.6	1666.3	1664.5
37.5°	1617.7	1599.5	1602.4	1577.9	1576.1
40°	1556.7	1538.6	1540.0	1514.0	1512.2
42.5°	1489.9	1471.7	1470.2	1444.1	1442.3
45°	1378.4	1360.2	1354.3	1330.0	1326.4
47.5°	1251.3	1233.2	1222.0	1202.2	1199.7
50°	1159.2	1141.0	1131.3	1114.5	1109.0
52.5°	1059.6	1041.5	1033.2	1017.9	1012.4
55°	902.8	888.3	882.4	867.5	863.8
57.5°	753.9	744.0	742.3	727.8	726.4
60°	663.2	657.7	657.6	644.6	644.6
62.5°	585.9	581.9	584.8	576.2	574.8
65°	484.9	481.2	486.7	483.0	483.0
67.5°	405.0	405.0	408.3	406.8	406.8
70°	360.4	360.4	362.3	362.3	362.3
72.5°	320.3	318.8	323.6	323.6	322.1
75°	261.9	261.9	261.9	263.8	263.8
77.5°	204.0	204.3	205.8	205.4	204.0
80°	165.3	167.2	167.2	165.3	165.3
82.5°	126.7	128.5	128.6	128.1	126.7
85°	66.9	70.5	74.3	74.3	74.3
87.5°	20.1	27.3	34.2	34.5	33.1
90°	3.7	11.0	22.3	24.2	24.2
92.5°	45.4	160.5	317.3	152.8	106.2
95°	104.3	372.0	1121.1	573.3	396.7
97.5°	166.5	425.8	1758.4	1469.0	1107.7
100°	214.2	447.3	1961.0	2051.8	1702.2
102.5°	260.4	477.4	2028.1	2488.3	2201.3
105°	340.8	530.2	2037.4	3048.1	2860.6
107.5°	416.8	585.8	1950.6	3335.8	3384.2
110°	467.4	627.7	1871.6	3425.1	3601.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	521.1	669.7	1795.7	3405.4	3695.6
115°	601.5	736.3	1696.6	3278.2	3707.9
117.5°	674.9	801.3	1619.9	3075.2	3553.7
120°	722.6	844.6	1581.1	2929.5	3421.1
122.5°	764.3	884.9	1552.8	2780.4	3270.6
125°	821.3	943.3	1523.4	2574.8	3030.0
127.5°	876.0	996.2	1504.8	2393.4	2799.8
130°	908.8	1029.0	1497.3	2289.5	2646.4
132.5°	941.6	1060.3	1489.9	2197.9	2525.7
135°	988.9	1103.6	1480.6	2077.2	2352.1
137.5°	1034.0	1144.0	1475.7	1974.7	2200.5
140°	1065.3	1170.9	1471.2	1911.7	2115.6
142.5°	1098.0	1196.4	1468.3	1852.8	2024.7
145°	1143.5	1232.7	1461.9	1775.9	1907.0
147.5°	1192.6	1270.2	1455.6	1711.2	1814.3
150°	1225.4	1292.8	1452.6	1670.6	1756.2
152.5°	1255.2	1313.9	1451.1	1637.5	1707.0
155°	1298.0	1345.4	1448.9	1593.5	1644.4
157.5°	1335.7	1372.5	1449.3	1562.5	1596.8
160°	1359.5	1390.5	1450.8	1544.5	1570.0
162.5°	1380.4	1405.5	1452.3	1529.4	1547.6
165°	1407.9	1424.3	1454.5	1512.4	1519.7
167.5°	1430.3	1439.7	1456.3	1499.2	1502.2
170°	1445.2	1448.8	1456.3	1491.7	1491.7
172.5°	1454.1	1454.8	1457.8	1484.3	1484.3
175°	1463.8	1462.0	1456.3	1476.8	1473.1
177.5°	1467.9	1465.0	1457.5	1469.3	1466.4
180°	1461.9	1461.9	1461.9	1461.9	1461.9

(END OF REPORT)