

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: P562121

Luminaire Tested: **SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562121
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-150U-100D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

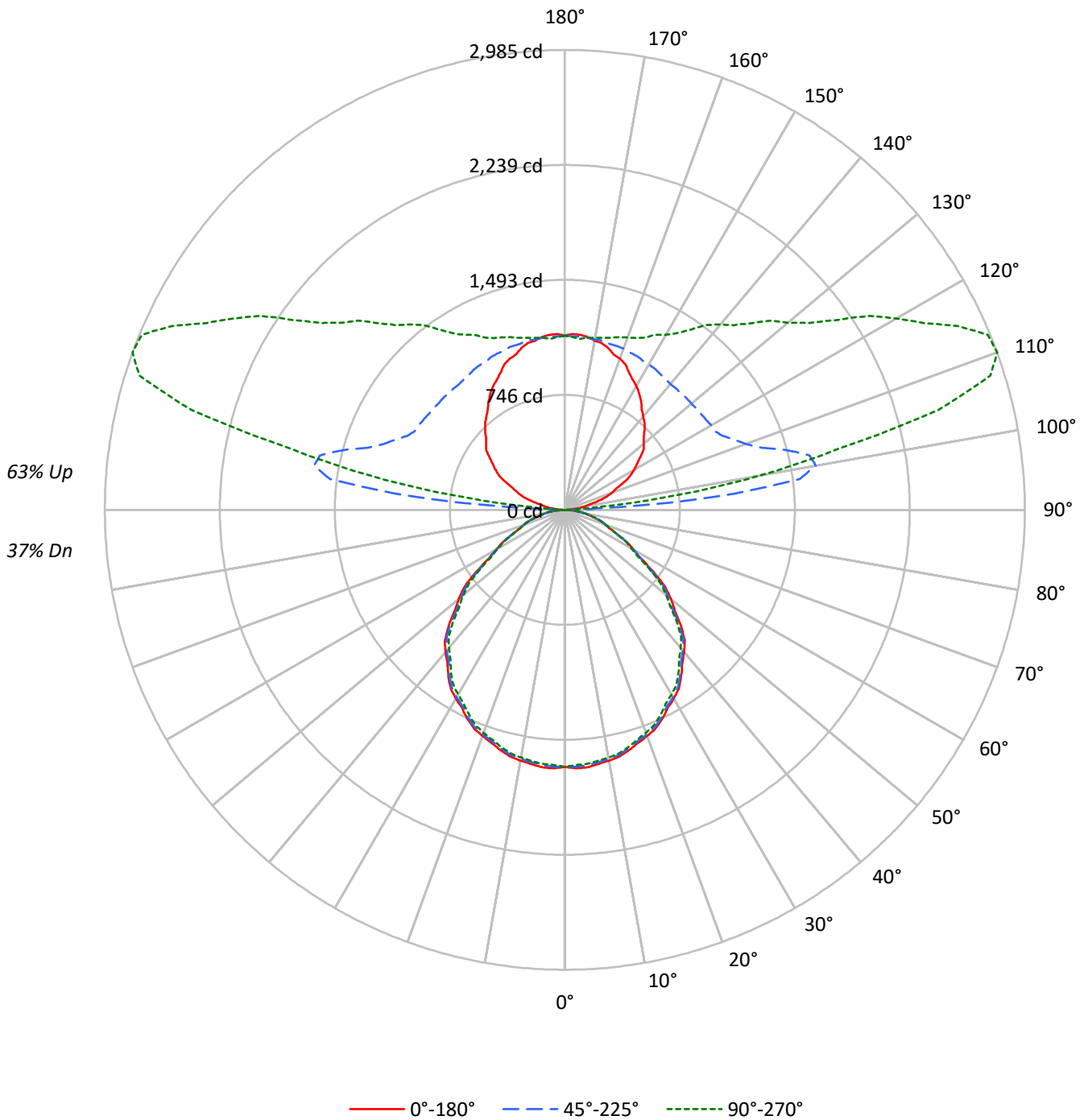
Lumens per Lamp: N/A
Luminaire Lumens: 11193.5 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 93.3
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	60	60	60	44	44	44	37
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	40	39	38	32
2	87	80	74	69	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	28	23
4	73	62	55	49	66	57	50	45	46	42	38	37	34	31	28	26	24	20
5	67	55	48	42	60	51	44	39	42	36	33	33	30	27	25	23	21	17
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	23	20	18	15
7	57	45	37	32	51	41	34	29	34	29	25	27	23	21	21	18	16	14
8	52	41	33	28	48	37	31	26	31	26	22	25	21	18	19	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	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°	15393	15393	15393
5°	15532	15412	15332
10°	15482	15375	15294
15°	15414	15319	15236
20°	15337	15238	15125
25°	15229	15126	14951
30°	15065	14958	14743
35°	14843	14713	14502
40°	14505	14348	14089
45°	13913	13669	13388
50°	12871	12562	12314
55°	11234	10980	10748
60°	9466	9387	9202
65°	8189	8219	8156
70°	7521	7559	7559
75°	7222	7222	7276
80°	6796	6870	6796
85°	5473	6087	6087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	1.4
10°-20°	451.4	4.0
20°-30°	680.9	6.1
30°-40°	811.3	7.2
40°-50°	799.8	7.1
50°-60°	611.3	5.5
60°-70°	378.3	3.4
70°-80°	214.8	1.9
80°-90°	65.3	0.6
90°-100°	515.2	4.6
100°-110°	1465.8	13.1
110°-120°	1404.4	12.5
120°-130°	1111.5	9.9
130°-140°	892.2	8.0
140°-150°	698.5	6.2
150°-160°	511.1	4.6
160°-170°	316.6	2.8
170°-180°	107.4	1.0
0°-30°	1290.0	11.5
0°-40°	2101.3	18.8
0°-60°	3512.4	31.4
0°-90°	4170.9	37.3
90°-120°	3385.4	30.2
90°-150°	6087.6	54.4
90°-180°	7023.0	62.7
0°-180°	11193.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1677	1659	1664	1658	1656	159
15°	1614	1597	1604	1598	1595	455
25°	1496	1478	1486	1470	1469	688
35°	1318	1302	1306	1289	1288	822
45°	1066	1052	1048	1029	1026	817
55°	698	687	683	671	668	626
65°	375	372	376	374	374	380
75°	203	203	203	204	204	214
85°	52	54	58	58	58	60
90°	0	0	0	0	0	4
95°	56	222	997	345	213	64
105°	228	346	1494	2639	2508	241
115°	423	512	1133	2400	2818	417
125°	598	663	1081	1794	2145	535
135°	731	792	1068	1516	1713	564
145°	862	906	1077	1312	1429	538
155°	984	1008	1103	1185	1234	455
165°	1088	1092	1116	1140	1156	306
175°	1139	1133	1128	1122	1113	108
180°	1131	1131	1131	1131	1131	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1668.4	1668.4	1668.4	1668.4	1668.4
2.5°	1678.8	1664.2	1668.4	1664.8	1656.9
5°	1677.1	1658.8	1664.1	1658.3	1655.5
7.5°	1664.1	1646.1	1651.5	1645.7	1644.0
10°	1652.6	1635.8	1641.1	1635.3	1632.5
12.5°	1640.0	1622.0	1628.5	1621.5	1618.7
15°	1613.8	1597.0	1603.8	1597.9	1595.1
17.5°	1585.1	1567.1	1573.9	1567.2	1563.5
20°	1562.1	1545.2	1552.0	1541.9	1540.5
22.5°	1536.8	1519.9	1526.7	1513.2	1512.9
25°	1496.0	1477.7	1485.9	1470.1	1468.7
27.5°	1447.4	1430.5	1437.3	1421.2	1419.5
30°	1414.1	1397.2	1404.0	1386.7	1383.9
32.5°	1376.1	1360.4	1366.1	1348.8	1347.1
35°	1317.8	1302.3	1306.3	1289.0	1287.6
37.5°	1251.4	1237.3	1239.6	1220.6	1219.2
40°	1204.3	1190.2	1191.3	1171.2	1169.8
42.5°	1152.5	1138.5	1137.3	1117.1	1115.7
45°	1066.3	1052.2	1047.6	1028.9	1026.1
47.5°	968.0	954.0	945.3	930.0	928.1
50°	896.7	882.7	875.2	862.1	857.9
52.5°	819.7	805.6	799.3	787.4	783.2
55°	698.4	687.2	682.6	671.0	668.2
57.5°	583.2	575.6	574.2	563.0	561.9
60°	513.0	508.8	508.7	498.7	498.7
62.5°	453.2	450.2	452.4	445.8	444.6
65°	375.1	372.3	376.5	373.6	373.6
67.5°	313.3	313.3	315.9	314.7	314.7
70°	278.8	278.8	280.2	280.2	280.2
72.5°	247.7	246.6	250.3	250.3	249.2
75°	202.6	202.6	202.6	204.1	204.1
77.5°	157.8	158.1	159.2	158.9	157.8
80°	127.9	129.3	129.3	127.9	127.9
82.5°	98.0	99.4	99.4	99.1	98.0
85°	51.7	54.5	57.5	57.5	57.5
87.5°	14.9	19.4	23.0	23.0	21.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.2	91.2	211.5	61.6	46.4
95°	55.9	221.9	997.3	345.2	212.8
97.5°	102.7	259.9	1535.9	1099.1	753.1
100°	135.4	282.5	1652.8	1674.2	1289.6
102.5°	171.5	306.9	1627.1	2143.0	1807.2
105°	227.8	345.5	1493.8	2638.6	2508.3
107.5°	285.0	390.5	1338.2	2778.3	2894.3
110°	324.6	423.3	1248.8	2724.8	2985.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	362.4	456.1	1188.6	2598.4	2970.0
115°	423.4	511.7	1132.7	2399.6	2817.8
117.5°	477.2	560.0	1099.6	2182.2	2625.2
120°	520.1	589.5	1096.2	2058.0	2482.5
122.5°	554.5	623.9	1087.6	1949.0	2343.2
125°	597.5	662.7	1081.1	1794.1	2145.0
127.5°	644.4	705.3	1077.7	1701.5	1990.7
130°	668.4	729.4	1072.5	1637.1	1889.3
132.5°	694.2	753.5	1072.5	1586.8	1818.8
135°	730.8	791.7	1068.2	1515.5	1713.0
137.5°	765.2	824.4	1067.8	1455.1	1625.8
140°	791.0	851.9	1066.1	1405.1	1569.0
142.5°	820.2	871.0	1071.2	1365.2	1512.3
145°	861.9	906.0	1076.8	1311.6	1429.3
147.5°	897.6	940.4	1086.3	1257.5	1359.2
150°	928.5	957.9	1089.7	1239.6	1311.1
152.5°	952.6	983.7	1093.2	1215.5	1281.9
155°	984.4	1007.5	1102.6	1185.4	1233.7
157.5°	1023.9	1037.8	1104.8	1171.7	1206.2
160°	1044.6	1055.1	1113.4	1161.3	1190.7
162.5°	1056.6	1068.8	1115.1	1152.6	1175.3
165°	1087.6	1091.8	1115.5	1139.5	1156.3
167.5°	1108.6	1104.8	1125.4	1136.3	1143.0
170°	1115.5	1113.4	1122.0	1124.3	1132.7
172.5°	1131.0	1123.8	1127.1	1120.8	1127.5
175°	1139.2	1132.8	1128.4	1121.8	1113.4
177.5°	1142.6	1132.5	1127.1	1120.3	1122.0
180°	1130.6	1130.6	1130.6	1130.6	1130.6

(END OF REPORT)