

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: P565012

Luminaire Tested: **SQ4-PW1-125U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565012
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-050D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

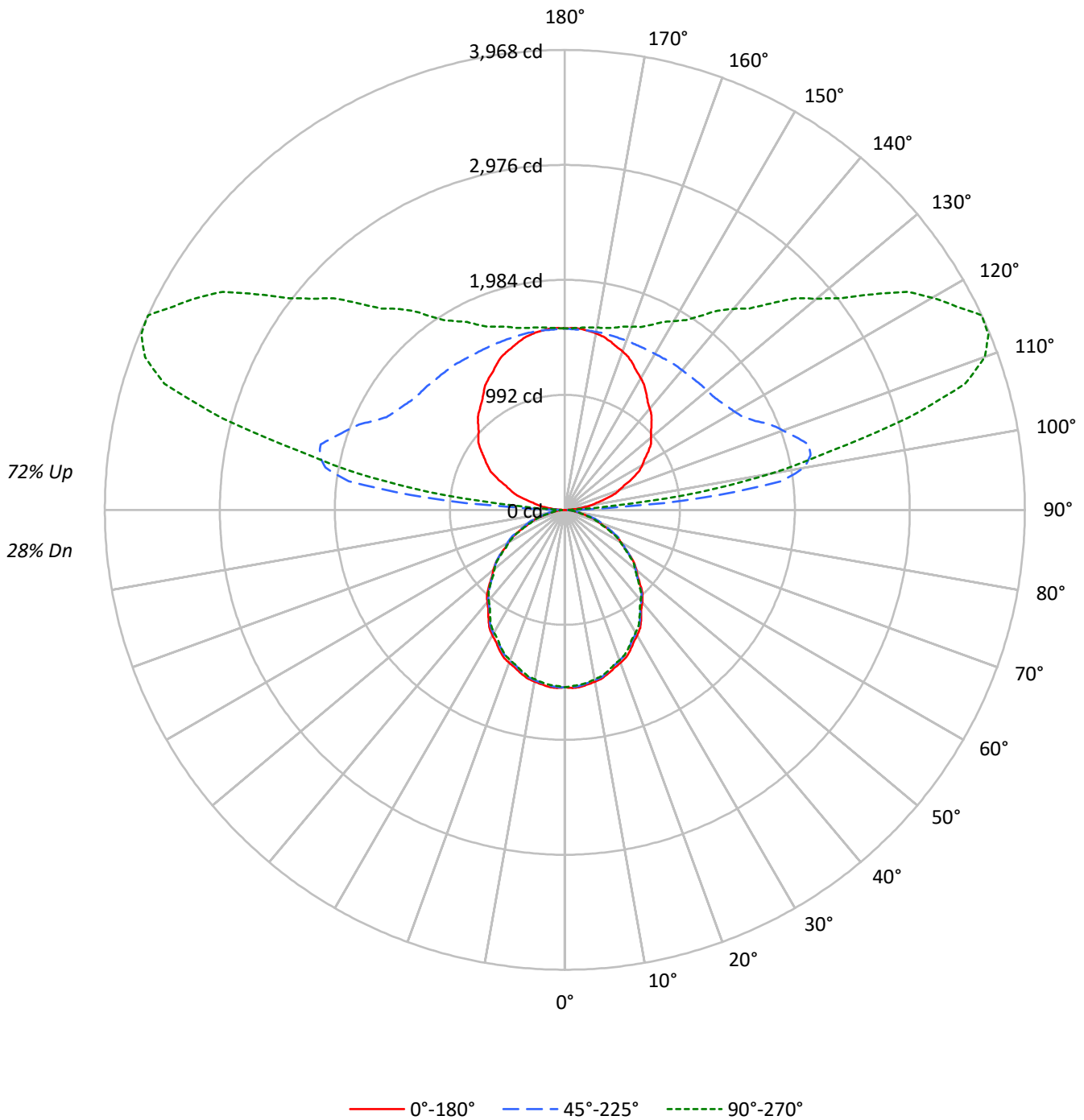
Lumens per Lamp: N/A
Luminaire Lumens: 13997.8 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.8
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7062	7062	7062
5°	7108	7052	7020
10°	7051	6994	6956
15°	6976	6899	6873
20°	6893	6787	6774
25°	6797	6673	6653
30°	6653	6552	6509
35°	6464	6373	6335
40°	6262	6165	6141
45°	6019	5939	5913
50°	5769	5721	5682
55°	5500	5500	5413
60°	5164	5264	5077
65°	4726	4961	4609
70°	4166	4566	4057
75°	3558	4087	3461
80°	2760	3440	2795
85°	1784	2641	2355



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	1.0
10°-20°	407.0	2.9
20°-30°	603.7	4.3
30°-40°	706.4	5.0
40°-50°	703.2	5.0
50°-60°	607.3	4.3
60°-70°	437.1	3.1
70°-80°	229.2	1.6
80°-90°	60.5	0.4
90°-100°	731.8	5.2
100°-110°	1971.4	14.1
110°-120°	2068.9	14.8
120°-130°	1678.9	12.0
130°-140°	1316.7	9.4
140°-150°	1010.9	7.2
150°-160°	726.8	5.2
160°-170°	444.1	3.2
170°-180°	149.7	1.1
0°-30°	1154.8	8.3
0°-40°	1861.2	13.3
0°-60°	3171.7	22.7
0°-90°	3898.5	27.9
90°-120°	4772.2	34.1
90°-150°	8778.6	62.7
90°-180°	10099.0	72.1
0°-180°	13997.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1531	1531	1531	1531	1531	
5°	1535	1518	1523	1519	1516	145
15°	1461	1442	1444	1442	1439	412
25°	1335	1313	1311	1303	1307	614
35°	1148	1132	1132	1121	1125	718
45°	923	915	910	908	906	712
55°	684	682	684	674	673	610
65°	433	446	454	437	422	429
75°	200	218	229	214	194	214
85°	34	44	50	47	44	45
90°	4	12	24	26	26	9
95°	112	398	1200	614	424	117
105°	365	567	2180	3262	3061	383
115°	644	788	1816	3508	3968	633
125°	879	1009	1630	2755	3242	785
135°	1058	1181	1584	2223	2517	817
145°	1224	1319	1564	1900	2041	767
155°	1389	1440	1550	1705	1760	639
165°	1507	1524	1556	1618	1626	425
175°	1566	1564	1558	1580	1576	149
180°	1564	1564	1564	1564	1564	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.9	1530.9	1530.9	1530.9	1530.9
2.5°	1539.5	1526.8	1530.9	1527.4	1520.1
5°	1534.9	1517.8	1522.8	1518.7	1516.0
7.5°	1519.3	1503.4	1507.1	1502.8	1501.2
10°	1505.2	1489.4	1493.1	1487.6	1485.0
12.5°	1489.0	1472.2	1475.8	1470.4	1468.8
15°	1460.7	1442.3	1444.5	1441.8	1439.1
17.5°	1427.8	1409.1	1409.5	1405.1	1404.6
20°	1404.1	1384.3	1382.5	1377.2	1379.8
22.5°	1378.2	1357.3	1355.5	1348.0	1351.7
25°	1335.3	1312.9	1311.0	1303.0	1307.0
27.5°	1285.6	1263.5	1263.5	1252.3	1256.5
30°	1249.0	1227.9	1230.1	1216.7	1222.0
32.5°	1210.1	1191.1	1192.3	1178.9	1184.2
35°	1147.8	1132.0	1131.6	1120.9	1124.9
37.5°	1084.1	1070.2	1068.0	1061.8	1062.8
40°	1039.9	1028.0	1023.7	1019.7	1019.7
42.5°	993.5	982.7	978.4	975.4	974.4
45°	922.6	914.6	910.4	907.7	906.4
47.5°	852.4	845.0	841.4	839.4	838.1
50°	803.9	798.6	797.1	793.0	791.7
52.5°	755.3	752.1	750.7	745.6	744.3
55°	683.8	682.5	683.8	674.4	673.0
57.5°	609.4	611.5	615.8	603.1	599.9
60°	559.7	565.0	570.5	555.6	550.3
62.5°	509.0	517.5	525.2	508.0	500.7
65°	433.0	446.1	454.5	436.7	422.2
67.5°	359.6	375.9	386.0	366.8	350.4
70°	308.9	327.3	338.5	319.2	300.8
72.5°	264.6	285.2	294.3	276.1	257.6
75°	199.6	218.1	229.3	214.0	194.2
77.5°	141.6	159.0	168.3	155.0	138.7
80°	103.9	122.3	129.5	118.4	105.2
82.5°	73.6	88.9	93.9	87.2	78.2
85°	33.7	44.3	49.9	47.1	44.5
87.5°	9.4	18.4	25.3	25.7	26.8
90°	4.0	11.8	23.9	25.9	25.9
92.5°	48.6	171.8	339.6	163.5	113.6
95°	111.6	398.0	1199.7	613.5	424.5
97.5°	178.2	455.6	1881.7	1572.0	1185.4
100°	229.2	478.6	2098.5	2195.6	1821.5
102.5°	278.6	510.9	2170.3	2662.7	2355.6
105°	364.7	567.4	2180.2	3261.8	3061.1
107.5°	446.0	626.8	2087.4	3569.7	3621.5
110°	500.2	671.7	2002.9	3665.2	3854.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	557.6	716.6	1921.5	3644.1	3954.7
115°	643.7	787.9	1815.5	3508.0	3967.9
117.5°	722.2	857.5	1733.4	3290.7	3802.8
120°	773.2	903.8	1692.0	3134.8	3660.9
122.5°	817.9	946.9	1661.7	2975.4	3499.9
125°	878.9	1009.4	1630.2	2755.3	3242.4
127.5°	937.5	1066.1	1610.3	2561.2	2996.1
130°	972.5	1101.1	1602.3	2450.0	2831.9
132.5°	1007.6	1134.7	1594.3	2352.0	2702.8
135°	1058.2	1181.0	1584.4	2222.8	2517.0
137.5°	1106.5	1224.2	1579.2	2113.2	2354.8
140°	1139.9	1253.0	1574.4	2045.7	2263.9
142.5°	1175.0	1280.2	1571.2	1982.7	2166.7
145°	1223.6	1319.1	1564.4	1900.4	2040.7
147.5°	1276.2	1359.3	1557.6	1831.2	1941.5
150°	1311.3	1383.4	1554.5	1787.7	1879.3
152.5°	1343.2	1406.0	1552.9	1752.3	1826.7
155°	1389.0	1439.7	1550.5	1705.2	1759.7
157.5°	1429.3	1468.7	1550.9	1672.1	1708.7
160°	1454.8	1487.9	1552.5	1652.7	1680.0
162.5°	1477.1	1504.0	1554.1	1636.6	1656.1
165°	1506.6	1524.2	1556.5	1618.4	1626.2
167.5°	1530.5	1540.7	1558.4	1604.4	1607.5
170°	1546.5	1550.4	1558.4	1596.3	1596.3
172.5°	1556.1	1556.8	1560.0	1588.3	1588.3
175°	1566.4	1564.5	1558.4	1580.3	1576.4
177.5°	1570.8	1567.7	1559.6	1572.3	1569.2
180°	1564.4	1564.4	1564.4	1564.4	1564.4

(END OF REPORT)