

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P522445

Luminaire Tested: **SQW-F-0U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522445  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQW-F-0U-125D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

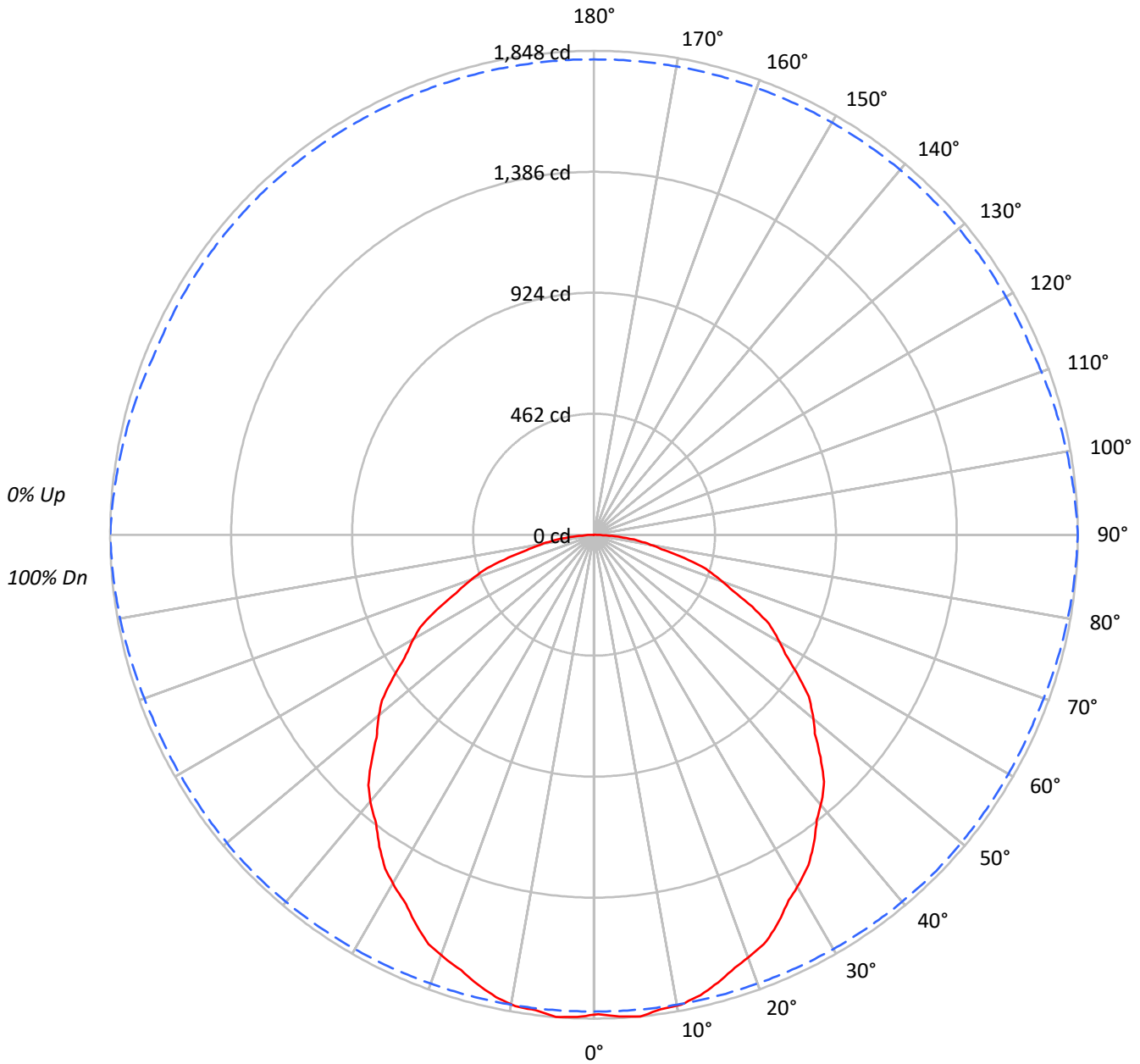
Lumens per Lamp: N/A  
Luminaire Lumens: 5110.2 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 59.2  
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



— Vertical Plane Through 90° Lateral      - - - Horizontal Cone Through 5° Vertical



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	29560	29560	29560
5°	29503	29943	29418
10°	29552	29913	29175
15°	29518	29658	29187
20°	29228	29443	28563
25°	28777	29168	28180
30°	28594	28808	27813
35°	28146	28519	27137
40°	27760	28224	26812
45°	27209	27686	26133
50°	26593	27198	25596
55°	25914	26534	24679
60°	25100	26046	23883
65°	23981	25379	22502
70°	22669	24000	21139
75°	20755	22190	19058
80°	17899	19256	16151
85°	12782	14931	11245



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.3	3.4
10°-20°	494.8	9.7
20°-30°	744.5	14.6
30°-40°	889.3	17.4
40°-50°	913.9	17.9
50°-60°	821.5	16.1
60°-70°	624.4	12.2
70°-80°	355.8	7.0
80°-90°	92.6	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1412.6	27.6
0°-40°	2302.0	45.0
0°-60°	4037.3	79.0
0°-90°	5110.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5110.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1831	1831	1831	1831	1831	
5°	1820	1832	1848	1819	1815	173
15°	1766	1760	1774	1754	1746	497
25°	1615	1642	1637	1616	1582	747
35°	1428	1449	1447	1414	1377	892
45°	1192	1205	1212	1174	1144	916
55°	921	940	943	901	877	821
65°	628	642	664	620	589	621
75°	333	344	356	326	306	352
85°	69	83	81	72	61	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8	1830.8
2.5°	1828.3	1826.6	1834.1	1826.1	1841.7	1833.5	1828.3	1831.3	1814.9
5°	1820.3	1824.4	1831.8	1825.0	1847.5	1814.8	1819.3	1816.1	1815.1
7.5°	1814.3	1817.5	1815.5	1811.3	1829.5	1808.7	1806.7	1800.0	1797.9
10°	1802.5	1806.6	1800.5	1803.0	1824.5	1793.8	1794.2	1777.5	1779.5
12.5°	1780.8	1789.8	1787.9	1778.9	1804.4	1778.7	1784.1	1772.3	1767.8
15°	1765.9	1756.7	1759.7	1762.0	1774.3	1745.7	1754.4	1739.9	1746.1
17.5°	1734.5	1728.8	1730.8	1724.6	1738.7	1709.3	1714.0	1702.4	1698.4
20°	1701.1	1701.1	1703.2	1700.3	1713.6	1685.0	1686.4	1666.5	1662.4
22.5°	1676.0	1671.9	1683.1	1674.3	1686.0	1658.2	1658.0	1633.3	1642.3
25°	1615.3	1620.4	1642.5	1622.9	1637.3	1602.5	1616.3	1589.0	1581.8
27.5°	1568.8	1570.5	1582.6	1572.0	1582.0	1555.2	1567.6	1533.0	1522.8
30°	1533.7	1529.6	1552.5	1536.0	1545.2	1525.8	1527.4	1489.8	1491.8
32.5°	1485.1	1486.0	1511.5	1499.9	1504.2	1478.2	1483.0	1456.0	1445.0
35°	1428.0	1428.0	1448.9	1436.6	1446.9	1415.1	1414.4	1386.0	1376.8
37.5°	1361.5	1354.9	1380.3	1373.8	1381.8	1352.3	1342.0	1315.1	1309.8
40°	1317.1	1313.0	1331.8	1327.8	1339.1	1310.5	1295.2	1270.1	1272.1
42.5°	1260.2	1264.3	1279.9	1281.7	1288.0	1256.9	1247.5	1219.0	1221.1
45°	1191.6	1189.5	1205.2	1204.3	1212.5	1185.9	1173.8	1140.4	1144.5
47.5°	1106.4	1109.3	1126.1	1124.3	1135.5	1111.8	1092.4	1070.1	1065.0
50°	1058.7	1060.8	1073.4	1075.6	1082.8	1058.2	1043.0	1020.0	1019.0
52.5°	1001.0	998.9	1017.3	1022.0	1027.5	1009.5	990.3	963.9	960.4
55°	920.6	921.7	939.5	946.7	942.6	930.3	900.8	874.6	876.7
57.5°	832.5	840.1	848.4	861.0	861.8	842.0	822.7	797.3	793.2
60°	777.3	778.3	794.0	806.6	806.6	785.1	761.6	739.6	739.6
62.5°	714.5	719.6	732.9	744.8	750.5	733.1	703.9	681.0	679.4
65°	627.7	628.7	642.3	658.2	664.3	640.8	620.4	594.1	589.0
67.5°	537.9	542.2	553.2	565.7	572.9	547.5	526.0	505.5	507.2
70°	480.2	481.2	489.6	505.4	508.4	488.0	466.6	447.8	447.8
72.5°	417.4	424.2	431.0	445.1	447.3	429.3	412.2	394.1	390.0
75°	332.7	337.8	344.2	352.6	355.7	340.4	326.4	310.6	305.5
77.5°	248.6	253.5	264.3	265.5	264.9	254.3	243.3	231.5	226.4
80°	192.5	196.6	208.2	210.2	207.1	199.0	187.3	178.8	173.7
82.5°	139.8	147.1	155.5	157.5	153.6	149.5	139.6	129.4	125.1
85°	69.0	73.1	82.6	86.7	80.6	78.5	72.2	63.7	60.7
87.5°	13.4	16.7	25.1	30.8	23.4	27.5	20.9	15.0	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)