

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: P522447

Luminaire Tested: **SQW-F-0U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522447
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 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

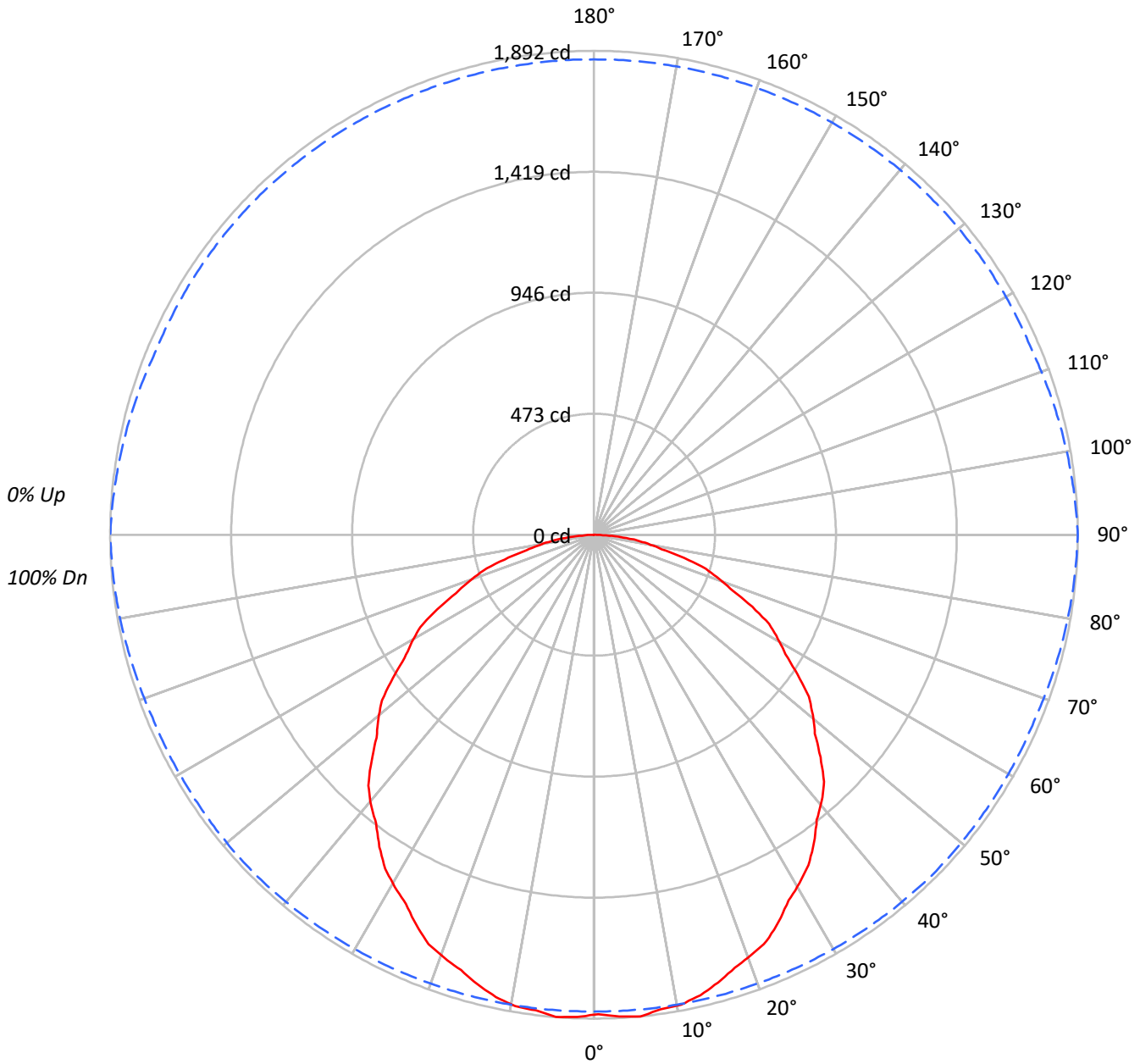
Lumens per Lamp: N/A
Luminaire Lumens: 5232.1 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 58.9
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30265	30265	30265
5°	30208	30658	30120
10°	30258	30627	29872
15°	30223	30365	29882
20°	29926	30146	29244
25°	29462	29863	28853
30°	29276	29496	28476
35°	28819	29199	27784
40°	28424	28896	27453
45°	27857	28346	26756
50°	27228	27846	26206
55°	26534	27167	25267
60°	25701	26666	24454
65°	24554	25987	23037
70°	23207	24576	21640
75°	21248	22720	19513
80°	18326	19721	16532
85°	13097	15283	11504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	3.4
10°-20°	506.7	9.7
20°-30°	762.3	14.6
30°-40°	910.6	17.4
40°-50°	935.7	17.9
50°-60°	841.1	16.1
60°-70°	639.4	12.2
70°-80°	364.3	7.0
80°-90°	94.8	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°	1446.3	27.6
0°-40°	2356.9	45.0
0°-60°	4133.7	79.0
0°-90°	5232.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5232.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1874	1874	1874	1874	1874	
5°	1864	1876	1892	1863	1858	177
15°	1808	1802	1817	1796	1788	509
25°	1654	1682	1676	1655	1620	765
35°	1462	1484	1481	1448	1410	914
45°	1220	1234	1241	1202	1172	938
55°	943	962	965	922	898	841
65°	643	658	680	635	603	635
75°	341	352	364	334	313	360
85°	71	85	82	74	62	89
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°	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5	1874.5
2.5°	1871.9	1870.2	1877.9	1869.7	1885.6	1877.2	1871.9	1875.0	1858.2
5°	1863.8	1868.0	1875.6	1868.6	1891.6	1858.1	1862.7	1859.5	1858.4
7.5°	1857.6	1860.9	1858.8	1854.6	1873.2	1851.8	1849.8	1842.9	1840.8
10°	1845.6	1849.7	1843.4	1846.1	1868.1	1836.6	1837.0	1819.9	1822.0
12.5°	1823.3	1832.5	1830.6	1821.3	1847.5	1821.1	1826.7	1814.6	1810.0
15°	1808.1	1798.6	1801.6	1804.1	1816.6	1787.3	1796.3	1781.4	1787.7
17.5°	1775.9	1770.1	1772.1	1765.8	1780.2	1750.1	1754.9	1743.1	1738.9
20°	1741.7	1741.7	1743.8	1740.9	1754.5	1725.2	1726.7	1706.2	1702.0
22.5°	1716.0	1711.8	1723.2	1714.3	1726.2	1697.7	1697.5	1672.2	1681.5
25°	1653.8	1659.1	1681.7	1661.7	1676.3	1640.7	1654.9	1626.9	1619.6
27.5°	1606.3	1607.9	1620.4	1609.5	1619.8	1592.3	1605.0	1569.6	1559.1
30°	1570.3	1566.1	1589.6	1572.6	1582.1	1562.2	1563.9	1525.3	1527.4
32.5°	1520.6	1521.4	1547.6	1535.7	1540.1	1513.5	1518.4	1490.8	1479.4
35°	1462.1	1462.1	1483.5	1470.9	1481.4	1448.9	1448.2	1419.0	1409.6
37.5°	1394.0	1387.3	1413.3	1406.6	1414.8	1384.6	1374.0	1346.5	1341.1
40°	1348.6	1344.4	1363.6	1359.5	1371.0	1341.7	1326.1	1300.4	1302.5
42.5°	1290.3	1294.5	1310.4	1312.3	1318.8	1286.9	1277.2	1248.1	1250.2
45°	1220.0	1217.9	1233.9	1233.1	1241.4	1214.2	1201.8	1167.6	1171.8
47.5°	1132.8	1135.8	1153.0	1151.1	1162.6	1138.3	1118.5	1095.6	1090.4
50°	1084.0	1086.1	1099.0	1101.3	1108.6	1083.5	1067.9	1044.3	1043.3
52.5°	1024.9	1022.8	1041.6	1046.4	1052.1	1033.6	1013.9	986.9	983.3
55°	942.6	943.6	961.9	969.3	965.1	952.5	922.2	895.5	897.6
57.5°	852.4	860.2	868.7	881.6	882.4	862.1	842.3	816.3	812.1
60°	795.9	796.9	813.0	825.8	825.8	803.8	779.8	757.3	757.3
62.5°	731.6	736.8	750.4	762.6	768.4	750.6	720.7	697.3	695.6
65°	642.7	643.7	657.7	673.9	680.2	656.1	635.2	608.3	603.0
67.5°	550.8	555.2	566.4	579.2	586.6	560.6	538.6	517.6	519.3
70°	491.6	492.7	501.3	517.4	520.6	499.6	477.7	458.4	458.4
72.5°	427.4	434.3	441.3	455.7	458.0	439.6	422.0	403.5	399.3
75°	340.6	345.9	352.4	361.0	364.2	348.5	334.2	318.0	312.8
77.5°	254.5	259.5	270.6	271.8	271.2	260.3	249.1	237.0	231.8
80°	197.1	201.3	213.2	215.2	212.1	203.7	191.7	183.0	177.8
82.5°	143.1	150.6	159.2	161.2	157.2	153.1	142.9	132.5	128.1
85°	70.7	74.9	84.6	88.8	82.5	80.4	73.9	65.3	62.1
87.5°	13.7	17.1	25.7	31.5	24.0	28.2	21.4	15.4	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)