

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: P522446

Luminaire Tested: **SQW-F-0U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522446
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 (5700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

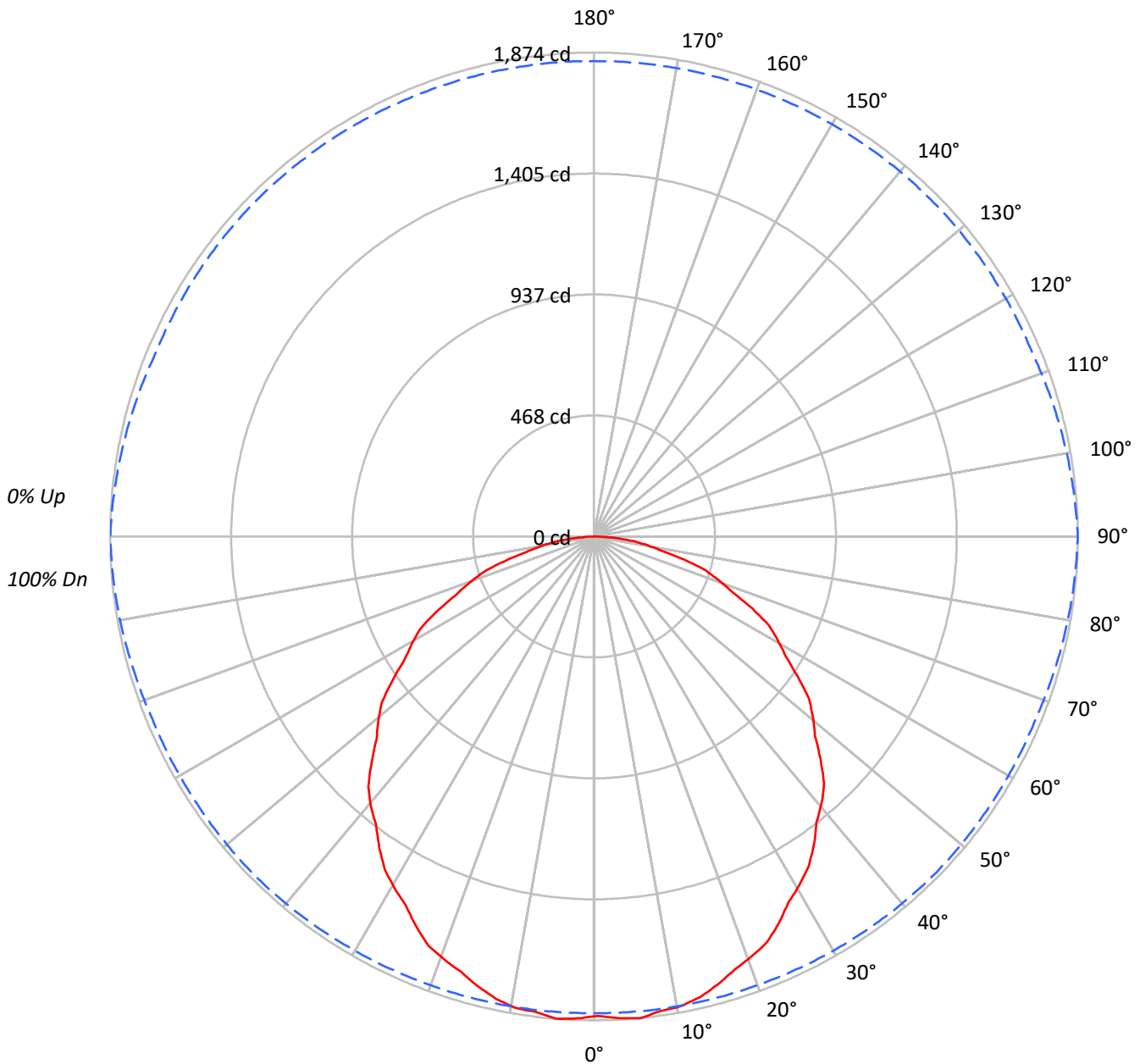
Lumens per Lamp: N/A
Luminaire Lumens: 5183.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 59.1
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°	29981	29981	29981
5°	29924	30371	29838
10°	29973	30339	29591
15°	29939	30081	29601
20°	29644	29862	28969
25°	29186	29584	28581
30°	29000	29218	28210
35°	28549	28925	27524
40°	28157	28627	27196
45°	27597	28081	26505
50°	26972	27585	25960
55°	26283	26911	25030
60°	25459	26418	24225
65°	24321	25742	22823
70°	22990	24345	21437
75°	21048	22508	19326
80°	18150	19535	16374
85°	12968	15135	11393



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	3.4
10°-20°	501.9	9.7
20°-30°	755.1	14.6
30°-40°	902.0	17.4
40°-50°	926.9	17.9
50°-60°	833.2	16.1
60°-70°	633.3	12.2
70°-80°	360.9	7.0
80°-90°	93.9	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°	1432.7	27.6
0°-40°	2334.8	45.0
0°-60°	4094.8	79.0
0°-90°	5183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1857	1857	1857	1857	1857	
5°	1846	1858	1874	1845	1841	176
15°	1791	1785	1800	1779	1771	504
25°	1638	1666	1661	1639	1604	758
35°	1448	1470	1468	1435	1396	905
45°	1209	1222	1230	1190	1161	929
55°	934	953	956	914	889	833
65°	637	652	674	629	597	629
75°	337	349	361	331	310	357
85°	70	84	82	73	62	88
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°	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9	1856.9
2.5°	1854.3	1852.7	1860.3	1852.1	1867.9	1859.6	1854.3	1857.3	1840.7
5°	1846.3	1850.4	1857.9	1851.0	1873.9	1840.7	1845.2	1842.0	1841.0
7.5°	1840.1	1843.4	1841.4	1837.1	1855.6	1834.4	1832.5	1825.6	1823.6
10°	1828.2	1832.4	1826.1	1828.7	1850.5	1819.4	1819.7	1802.8	1804.9
12.5°	1806.2	1815.3	1813.4	1804.2	1830.1	1804.0	1809.5	1797.6	1793.0
15°	1791.1	1781.7	1784.7	1787.1	1799.6	1770.5	1779.4	1764.7	1770.9
17.5°	1759.3	1753.4	1755.4	1749.2	1763.5	1733.6	1738.5	1726.7	1722.5
20°	1725.3	1725.3	1727.4	1724.5	1738.0	1709.0	1710.4	1690.2	1686.0
22.5°	1699.8	1695.7	1707.1	1698.2	1710.0	1681.8	1681.6	1656.5	1665.7
25°	1638.3	1643.5	1665.9	1646.1	1660.6	1625.3	1639.4	1611.6	1604.3
27.5°	1591.2	1592.8	1605.2	1594.4	1604.6	1577.4	1589.9	1554.9	1544.5
30°	1555.5	1551.4	1574.6	1557.9	1567.2	1547.5	1549.2	1511.0	1513.1
32.5°	1506.3	1507.1	1533.0	1521.2	1525.6	1499.3	1504.2	1476.8	1465.6
35°	1448.4	1448.4	1469.6	1457.1	1467.5	1435.3	1434.6	1405.7	1396.4
37.5°	1380.9	1374.2	1400.0	1393.4	1401.5	1371.6	1361.1	1333.9	1328.5
40°	1335.9	1331.7	1350.7	1346.8	1358.2	1329.1	1313.6	1288.2	1290.3
42.5°	1278.2	1282.3	1298.1	1300.0	1306.4	1274.9	1265.2	1236.4	1238.5
45°	1208.6	1206.5	1222.4	1221.5	1229.8	1202.8	1190.5	1156.7	1160.8
47.5°	1122.2	1125.1	1142.1	1140.3	1151.7	1127.6	1108.0	1085.4	1080.2
50°	1073.8	1075.9	1088.7	1090.9	1098.2	1073.3	1057.9	1034.5	1033.5
52.5°	1015.2	1013.2	1031.8	1036.6	1042.2	1023.9	1004.4	977.6	974.1
55°	933.7	934.8	952.8	960.2	956.0	943.6	913.6	887.1	889.2
57.5°	844.4	852.1	860.5	873.3	874.1	854.0	834.4	808.7	804.5
60°	788.4	789.4	805.4	818.1	818.1	796.3	772.5	750.2	750.2
62.5°	724.7	729.9	743.4	755.4	761.2	743.6	713.9	690.7	689.1
65°	636.6	637.7	651.5	667.6	673.8	649.9	629.2	602.6	597.4
67.5°	545.6	550.0	561.1	573.8	581.0	555.3	533.5	512.7	514.4
70°	487.0	488.1	496.6	512.6	515.7	494.9	473.2	454.1	454.1
72.5°	423.4	430.2	437.2	451.4	453.7	435.5	418.1	399.7	395.6
75°	337.4	342.6	349.1	357.7	360.8	345.2	331.1	315.0	309.8
77.5°	252.1	257.1	268.0	269.3	268.7	257.9	246.8	234.8	229.6
80°	195.2	199.4	211.2	213.2	210.1	201.8	189.9	181.3	176.1
82.5°	141.8	149.2	157.7	159.7	155.8	151.6	141.5	131.3	126.9
85°	70.0	74.2	83.8	87.9	81.7	79.6	73.2	64.7	61.5
87.5°	13.6	16.9	25.5	31.2	23.8	27.9	21.2	15.2	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)