

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: P522463

Luminaire Tested: **SQW-F-100U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522463
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-100U-050D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

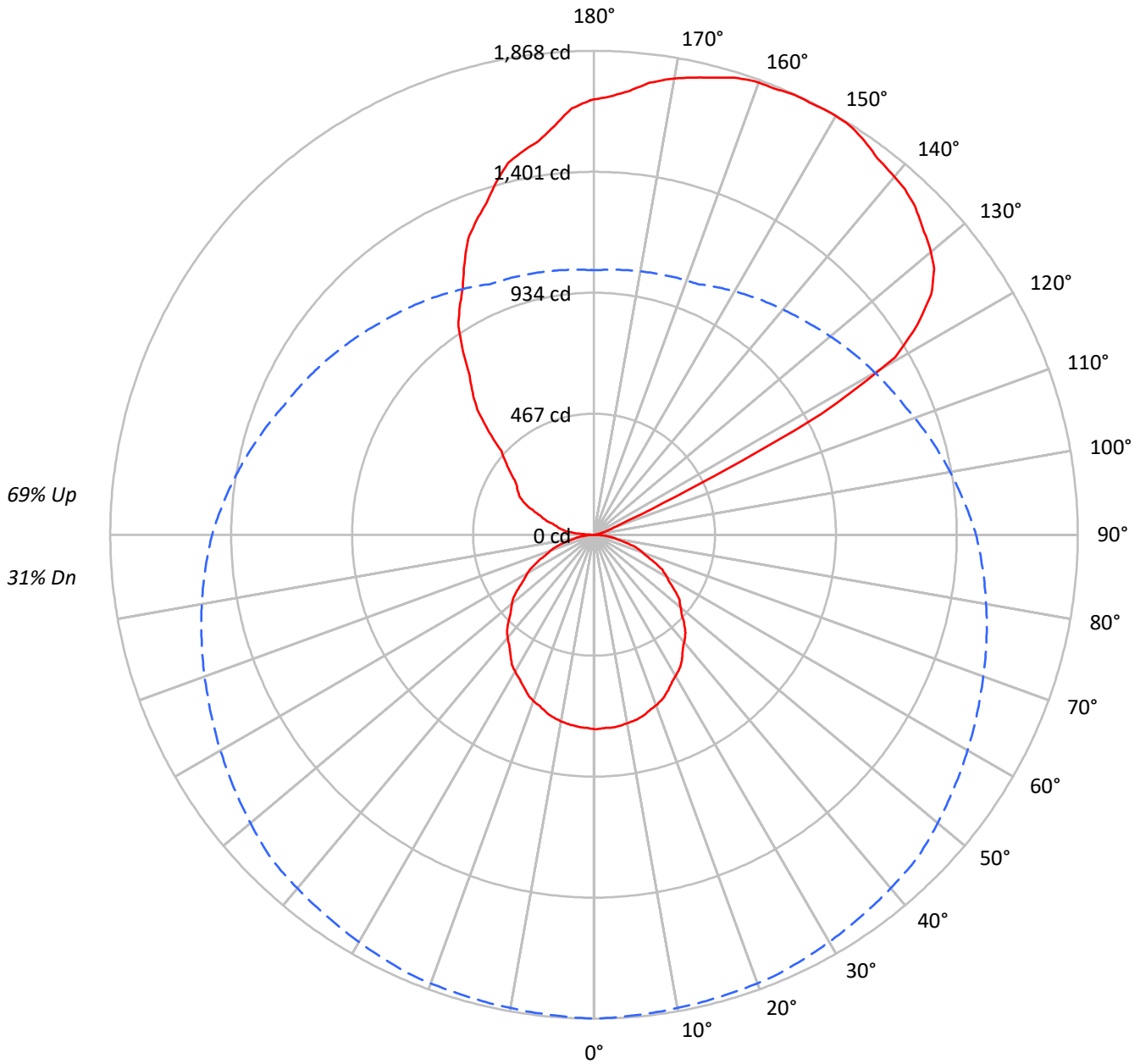
Lumens per Lamp: N/A
Luminaire Lumens: 6774.2 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 56.2
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 0° Lateral - - - Horizontal Cone Through 150° 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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	93	89	85	82	84	80	77	74	64	61	59	48	47	45	34	33	32	26
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	28	27	22
3	77	68	61	55	69	62	55	51	49	45	41	37	34	32	26	25	23	18
4	71	60	53	47	63	54	48	43	43	39	35	33	30	27	23	21	20	15
5	65	53	46	40	58	48	41	36	39	34	30	29	26	23	21	19	17	13
6	60	48	40	34	53	43	36	31	35	30	26	27	23	20	19	17	15	12
7	55	43	35	30	49	39	32	27	31	26	23	24	21	18	17	15	13	10
8	51	39	31	26	46	35	29	24	28	23	20	22	18	16	16	14	12	9
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	15	12	11	8
10	44	32	25	21	40	29	23	19	24	19	16	19	15	13	14	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	12124	12124	12124
5°	12118	12238	12065
10°	12099	12222	12013
15°	12085	12157	11925
20°	12000	12091	11778
25°	11851	11965	11583
30°	11682	11842	11423
35°	11548	11696	11211
40°	11333	11535	11017
45°	11129	11373	10762
50°	10844	11165	10492
55°	10612	10914	10100
60°	10308	10689	9720
65°	9738	10231	9165
70°	9201	9758	8545
75°	8484	8952	7817
80°	7373	7866	6574
85°	5558	6150	4965



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	1.0
10°-20°	203.0	3.0
20°-30°	305.4	4.5
30°-40°	364.6	5.4
40°-50°	375.0	5.5
50°-60°	337.4	5.0
60°-70°	255.2	3.8
70°-80°	145.1	2.1
80°-90°	38.4	0.6
90°-100°	44.1	0.7
100°-110°	190.9	2.8
110°-120°	544.3	8.0
120°-130°	827.6	12.2
130°-140°	895.1	13.2
140°-150°	855.3	12.6
150°-160°	703.4	10.4
160°-170°	459.6	6.8
170°-180°	159.0	2.3
0°-30°	579.4	8.6
0°-40°	944.0	13.9
0°-60°	1656.4	24.5
0°-90°	2095.0	30.9
90°-120°	779.2	11.5
90°-150°	3357.2	49.6
90°-180°	4679.0	69.1
0°-180°	6774.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	751	751	751	751	751	
5°	748	748	755	748	744	71
15°	723	724	727	719	713	204
25°	665	672	672	662	650	306
35°	586	592	593	581	569	366
45°	487	494	498	482	471	375
55°	377	384	388	373	359	337
65°	255	262	268	252	240	254
75°	136	140	144	133	125	144
85°	30	34	33	30	27	36
90°	0	0	0	0	0	1
95°	7	10	30	71	67	9
105°	44	112	221	151	162	51
115°	401	1068	551	262	296	552
125°	1600	1408	881	433	372	1406
135°	1771	1603	1159	719	569	1365
145°	1845	1727	1381	1022	871	1156
155°	1866	1784	1542	1280	1162	862
165°	1822	1782	1651	1480	1412	518
175°	1717	1721	1691	1630	1586	166
180°	1677	1677	1677	1677	1677	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9	750.9
2.5°	747.4	749.9	750.0	749.3	756.0	749.3	750.9	749.1	746.6
5°	747.7	747.7	747.7	746.8	755.1	745.7	747.7	744.4	744.4
7.5°	743.2	743.4	744.2	741.4	750.6	740.2	742.1	738.7	739.5
10°	738.0	739.1	739.1	737.1	745.5	735.0	736.9	732.7	732.7
12.5°	732.9	733.1	733.9	731.1	739.5	728.2	730.1	725.8	724.9
15°	723.0	723.0	724.1	720.0	727.3	716.8	718.7	713.4	713.4
17.5°	708.7	708.5	711.0	705.6	713.2	701.4	705.2	698.5	696.7
20°	698.4	697.3	701.6	695.4	703.7	691.2	694.1	686.6	685.5
22.5°	685.5	684.5	690.5	684.2	691.7	679.2	682.1	672.0	671.8
25°	665.2	664.1	671.6	665.3	671.6	660.1	662.0	651.2	650.2
27.5°	642.0	642.0	650.8	643.5	650.6	639.1	639.9	629.0	629.0
30°	626.6	626.6	636.3	628.9	635.2	623.7	624.5	612.7	612.7
32.5°	610.3	610.3	618.3	612.6	618.9	607.4	607.3	595.5	595.5
35°	585.9	583.8	592.3	587.1	593.4	581.9	580.6	568.8	568.8
37.5°	556.6	555.5	564.9	561.2	566.2	554.9	551.8	540.5	541.6
40°	537.7	536.7	545.2	543.2	547.3	536.9	531.3	521.7	522.7
42.5°	518.0	516.1	524.6	523.5	527.6	517.2	512.4	501.9	502.1
45°	487.4	487.4	493.8	493.9	498.1	486.6	482.0	471.3	471.3
47.5°	454.8	455.0	461.7	462.0	465.9	455.9	450.9	439.4	439.2
50°	431.7	432.7	440.2	441.4	444.5	436.1	429.5	418.8	417.7
52.5°	412.0	410.5	418.0	419.9	422.2	413.9	407.2	396.5	395.5
55°	377.0	378.1	384.5	387.7	387.7	380.4	372.8	362.0	358.8
57.5°	342.3	343.8	349.0	353.1	354.1	345.9	338.0	328.3	324.1
60°	319.2	318.2	326.7	329.9	331.0	323.6	314.9	305.2	301.0
62.5°	294.3	295.0	301.0	305.9	307.0	298.8	290.9	278.6	275.3
65°	254.9	258.1	262.4	265.7	267.8	261.5	251.7	242.0	239.9
67.5°	218.9	221.0	225.4	230.3	231.6	224.5	215.7	207.3	205.0
70°	194.9	197.0	201.4	204.6	206.7	200.4	191.7	184.2	181.0
72.5°	171.0	173.0	176.5	179.8	181.9	175.6	167.7	161.0	158.7
75°	136.0	138.1	140.3	142.5	143.5	139.3	132.8	126.4	125.3
77.5°	101.5	103.6	106.0	108.8	107.8	104.8	98.5	94.2	93.0
80°	79.3	81.4	84.6	85.7	84.6	82.5	77.1	72.8	70.7
82.5°	58.7	60.8	64.1	64.2	62.3	61.9	57.4	54.0	52.7
85°	30.0	32.1	34.3	35.3	33.2	33.2	30.0	26.8	26.8
87.5°	6.0	7.7	10.3	12.8	10.3	11.1	8.6	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	2.3	2.3	2.3	4.6	6.8	24.6	27.3	23.9	23.9
95°	7.1	7.1	10.0	31.3	29.9	50.8	71.2	66.9	66.9
97.5°	14.5	15.9	22.8	92.6	69.8	67.8	96.2	107.1	109.0
100°	21.4	22.7	34.2	151.2	103.9	88.6	105.3	125.4	129.5
102.5°	29.3	31.8	54.7	237.9	146.1	104.0	120.1	137.9	143.2
105°	44.1	48.3	112.5	398.8	220.6	135.7	150.9	158.1	162.3
107.5°	65.5	82.5	302.9	560.4	313.2	179.3	195.3	194.3	197.9
110°	88.3	123.1	523.9	648.8	381.5	213.1	213.5	224.8	220.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	146.3	244.6	781.2	733.8	449.8	253.6	230.6	255.7	257.1
115°	401.4	689.6	1067.7	853.0	550.9	325.4	261.9	286.4	296.1
117.5°	995.3	1199.7	1214.3	958.7	651.7	405.6	297.8	308.6	321.4
120°	1349.5	1391.3	1282.6	1023.7	718.9	462.8	327.4	323.5	337.4
122.5°	1488.5	1473.4	1338.4	1084.2	784.9	523.3	363.9	341.6	351.0
125°	1600.1	1561.1	1407.9	1167.9	881.2	613.9	432.8	371.5	371.5
127.5°	1666.7	1621.3	1471.7	1242.2	968.0	705.5	515.6	420.2	407.1
130°	1705.4	1656.7	1510.4	1293.6	1024.9	764.7	573.7	462.2	441.3
132.5°	1735.0	1690.7	1546.8	1333.8	1080.7	822.7	631.8	514.3	480.0
135°	1770.9	1733.3	1602.9	1395.4	1158.8	909.6	718.9	604.2	569.4
137.5°	1793.9	1764.7	1653.3	1446.0	1231.1	995.8	806.9	691.7	660.2
140°	1806.5	1782.8	1678.4	1475.9	1275.5	1051.4	868.4	751.0	721.7
142.5°	1819.0	1799.8	1696.6	1509.2	1318.8	1106.9	928.7	811.3	779.8
145°	1844.9	1822.6	1726.8	1549.3	1380.8	1184.6	1022.1	899.0	871.2
147.5°	1863.1	1836.4	1751.5	1592.3	1439.5	1254.9	1107.8	989.0	961.5
150°	1867.7	1839.8	1765.2	1615.4	1474.8	1298.0	1160.2	1047.1	1020.7
152.5°	1864.3	1843.1	1775.4	1635.0	1504.4	1339.9	1208.0	1103.0	1078.8
155°	1866.3	1846.8	1783.7	1661.4	1541.7	1398.3	1279.8	1186.7	1161.6
157.5°	1857.7	1844.9	1789.4	1681.6	1576.1	1450.6	1345.5	1267.2	1241.9
160°	1857.7	1838.2	1789.4	1693.3	1600.1	1484.5	1386.5	1316.3	1295.4
162.5°	1845.2	1827.9	1788.2	1701.6	1622.8	1516.2	1425.2	1359.7	1344.4
165°	1822.1	1808.2	1782.3	1712.5	1651.3	1559.4	1480.5	1421.9	1412.1
167.5°	1804.2	1785.0	1770.9	1712.1	1670.7	1590.5	1527.2	1478.6	1473.1
170°	1783.7	1771.2	1759.5	1709.0	1679.8	1613.0	1560.2	1511.7	1506.1
172.5°	1757.5	1750.5	1744.7	1706.9	1685.5	1632.0	1588.7	1544.6	1534.6
175°	1716.8	1722.4	1721.1	1702.3	1691.2	1656.4	1630.0	1598.3	1585.8
177.5°	1691.7	1689.5	1695.1	1691.7	1690.6	1669.4	1662.1	1640.6	1647.3
180°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9

(END OF REPORT)