

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: P522326

Luminaire Tested: **SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522326
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-025U-125D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

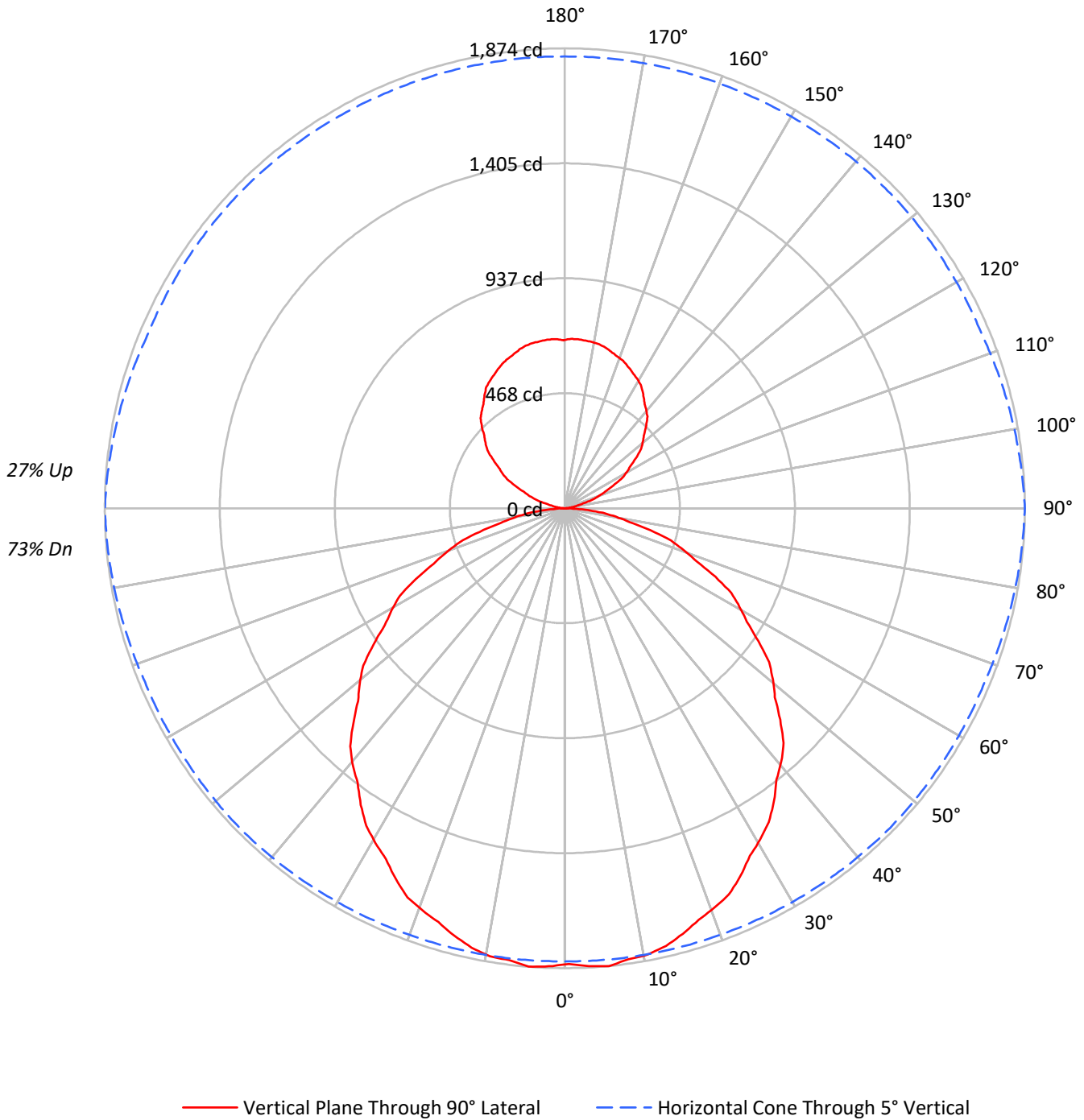
Lumens per Lamp: N/A
Luminaire Lumens: 7093.7 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.3
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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	77	77	77	73	
1	103	98	94	90	97	93	90	86	84	81	79	76	74	72	68	66	65	65	65	65	61	
2	93	86	79	74	88	81	76	71	74	69	65	66	63	60	60	57	54	54	54	54	51	
3	85	75	67	61	80	72	65	59	65	59	54	59	54	50	53	49	46	46	46	46	43	
4	78	66	58	52	74	63	56	50	57	51	46	52	47	43	47	43	40	40	40	40	37	
5	72	59	51	44	68	57	49	43	51	45	40	47	41	37	42	38	34	34	34	34	32	
6	66	53	45	39	62	51	43	37	46	40	35	42	37	33	38	34	30	30	30	30	28	
7	61	48	40	34	58	46	38	33	42	36	31	38	33	29	35	30	27	27	27	27	24	
8	57	44	36	30	54	42	34	29	38	32	27	35	30	26	32	27	24	24	24	24	22	
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	30	25	22	22	22	22	20	
10	49	37	29	24	47	35	28	24	33	26	22	30	25	21	27	23	20	20	20	20	18	

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	2.5
10°-20°	501.9	7.1
20°-30°	755.1	10.6
30°-40°	902.0	12.7
40°-50°	926.9	13.1
50°-60°	833.2	11.7
60°-70°	633.3	8.9
70°-80°	360.9	5.1
80°-90°	93.9	1.3
90°-100°	18.0	0.3
100°-110°	77.9	1.1
110°-120°	222.3	3.1
120°-130°	337.9	4.8
130°-140°	365.5	5.2
140°-150°	349.2	4.9
150°-160°	287.2	4.0
160°-170°	187.7	2.6
170°-180°	64.9	0.9
0°-30°	1432.7	20.2
0°-40°	2334.8	32.9
0°-60°	4094.8	57.7
0°-90°	5183.0	73.1
90°-120°	318.2	4.5
90°-150°	1370.8	19.3
90°-180°	1911.0	26.9
0°-180°	7093.7	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	86
90°	0	0	0	0	0	2
95°	3	4	12	29	27	4
105°	18	46	90	62	66	21
115°	164	436	225	107	121	225
125°	653	575	360	177	152	574
135°	723	654	473	294	232	557
145°	753	705	564	417	356	472
155°	762	728	630	523	474	352
165°	744	728	674	604	577	211
175°	701	703	690	666	648	68
180°	685	685	685	685	685	



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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
92.5°	0.9	0.9	0.9	1.9	2.8	10.1	11.2	9.8	9.8
95°	2.9	2.9	4.1	12.8	12.2	20.7	29.1	27.3	27.3
97.5°	5.9	6.5	9.3	37.8	28.5	27.7	39.3	43.7	44.5
100°	8.7	9.3	14.0	61.8	42.4	36.2	43.0	51.2	52.9
102.5°	12.0	13.0	22.3	97.1	59.6	42.5	49.1	56.3	58.5
105°	18.0	19.7	45.9	162.8	90.1	55.4	61.6	64.6	66.3
107.5°	26.7	33.7	123.7	228.8	127.9	73.2	79.8	79.3	80.8
110°	36.0	50.2	213.9	264.9	155.8	87.0	87.2	91.8	90.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	59.8	99.9	319.0	299.6	183.7	103.5	94.2	104.4	105.0
115°	163.9	281.6	436.0	348.3	225.0	132.9	107.0	116.9	120.9
117.5°	406.4	489.9	495.8	391.5	266.1	165.6	121.6	126.0	131.3
120°	551.0	568.1	523.7	418.0	293.5	189.0	133.7	132.1	137.8
122.5°	607.8	601.6	546.5	442.7	320.5	213.7	148.6	139.5	143.3
125°	653.3	637.4	574.9	476.9	359.8	250.7	176.7	151.7	151.7
127.5°	680.5	662.0	600.9	507.2	395.3	288.1	210.5	171.6	166.2
130°	696.4	676.5	616.7	528.2	418.5	312.2	234.3	188.7	180.2
132.5°	708.4	690.4	631.6	544.6	441.3	335.9	258.0	210.0	196.0
135°	723.1	707.8	654.5	569.8	473.2	371.4	293.5	246.7	232.5
137.5°	732.5	720.6	675.1	590.4	502.7	406.6	329.5	282.4	269.6
140°	737.6	728.0	685.3	602.7	520.8	429.3	354.6	306.6	294.7
142.5°	742.7	734.9	692.8	616.2	538.5	452.0	379.2	331.3	318.4
145°	753.3	744.2	705.1	632.6	563.8	483.7	417.4	367.1	355.7
147.5°	760.8	749.9	715.2	650.2	587.8	512.4	452.3	403.8	392.6
150°	762.6	751.3	720.8	659.6	602.2	530.0	473.7	427.6	416.8
152.5°	761.2	752.6	725.0	667.6	614.3	547.1	493.3	450.4	440.5
155°	762.0	754.1	728.3	678.4	629.5	571.0	522.6	484.5	474.3
157.5°	758.6	753.3	730.7	686.7	643.6	592.3	549.4	517.4	507.1
160°	758.6	750.6	730.7	691.4	653.3	606.2	566.2	537.5	529.0
162.5°	753.4	746.4	730.2	694.8	662.6	619.1	582.0	555.2	548.9
165°	744.0	738.3	727.7	699.3	674.3	636.8	604.5	580.6	576.6
167.5°	736.7	728.9	723.1	699.1	682.2	649.4	623.6	603.8	601.5
170°	728.3	723.2	718.4	697.8	685.9	658.6	637.1	617.3	615.0
172.5°	717.6	714.8	712.4	697.0	688.2	666.4	648.7	630.7	626.6
175°	701.0	703.3	702.8	695.1	690.5	676.3	665.6	652.6	647.5
177.5°	690.8	689.9	692.2	690.8	690.3	681.7	678.7	669.9	672.6
180°	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7	684.7

(END OF REPORT)