

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: P522325

Luminaire Tested: **SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522325
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

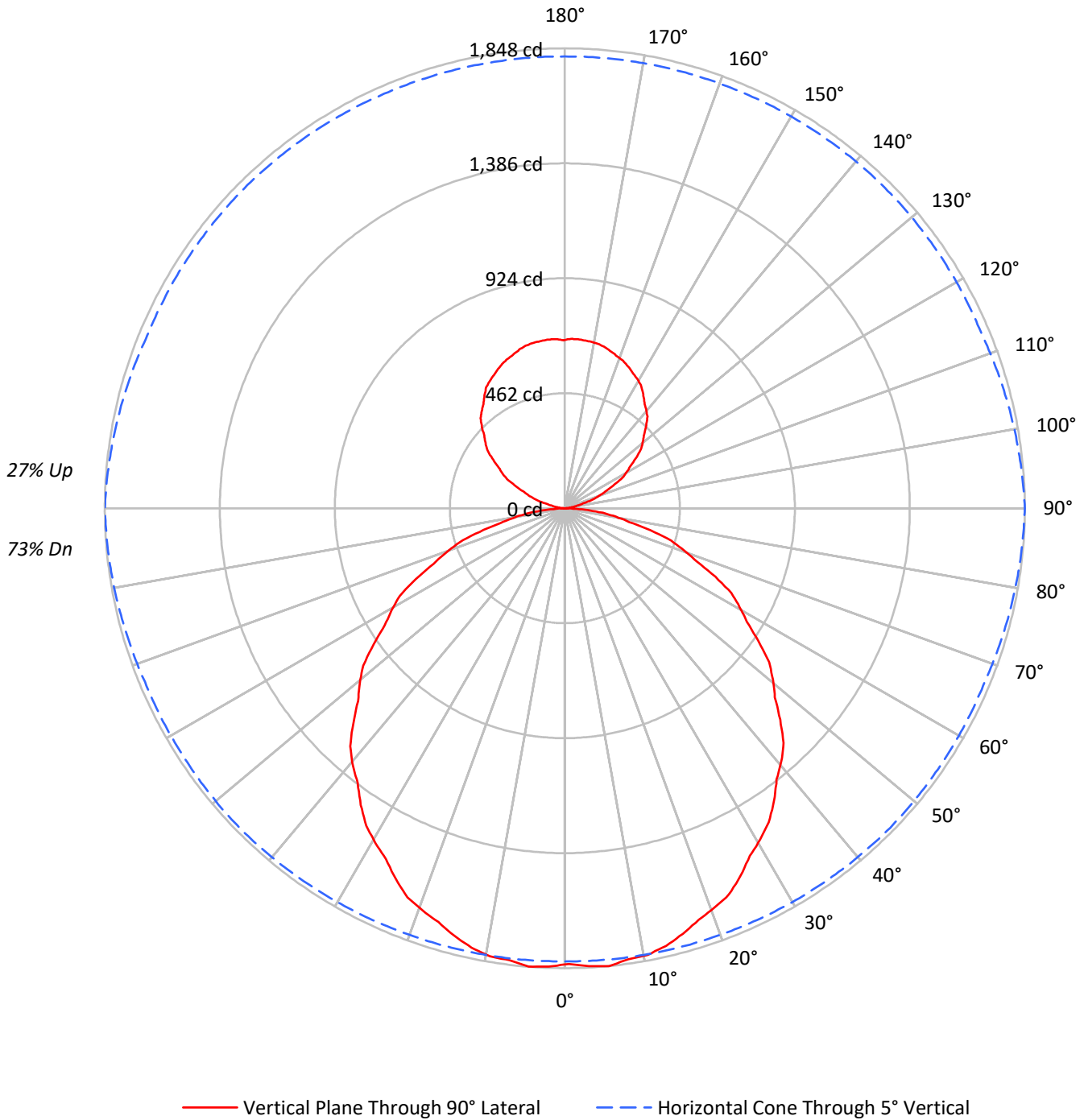
Lumens per Lamp: N/A
Luminaire Lumens: 6994.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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	0
RCR																		
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	103	98	94	90	97	93	90	86	84	81	79	76	74	72	68	66	65	61
2	93	86	79	74	88	81	76	71	74	69	65	66	63	60	60	57	54	51
3	85	75	67	61	80	72	65	59	65	59	54	59	54	50	53	49	46	43
4	78	66	58	52	74	63	56	50	57	51	46	52	47	43	47	43	40	37
5	72	59	51	44	68	57	49	43	51	45	40	47	41	37	42	38	34	32
6	66	53	45	39	62	51	43	37	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	38	33	42	36	31	38	33	29	35	30	27	24
8	57	44	36	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	30	25	22	20
10	49	37	29	24	47	35	28	24	33	26	22	30	25	21	27	23	20	18

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	2.5
10°-20°	494.8	7.1
20°-30°	744.5	10.6
30°-40°	889.3	12.7
40°-50°	913.9	13.1
50°-60°	821.5	11.7
60°-70°	624.4	8.9
70°-80°	355.8	5.1
80°-90°	92.6	1.3
90°-100°	17.7	0.3
100°-110°	76.8	1.1
110°-120°	219.1	3.1
120°-130°	333.2	4.8
130°-140°	360.4	5.2
140°-150°	344.3	4.9
150°-160°	283.2	4.0
160°-170°	185.0	2.6
170°-180°	64.0	0.9
0°-30°	1412.6	20.2
0°-40°	2302.0	32.9
0°-60°	4037.3	57.7
0°-90°	5110.2	73.1
90°-120°	313.7	4.5
90°-150°	1351.6	19.3
90°-180°	1884.0	26.9
0°-180°	6994.0	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	85
90°	0	0	0	0	0	2
95°	3	4	12	29	27	4
105°	18	45	89	61	65	21
115°	162	430	222	106	119	222
125°	644	567	355	174	150	566
135°	713	645	466	289	229	550
145°	743	695	556	412	351	465
155°	751	718	621	515	468	347
165°	734	718	665	596	568	209
175°	691	693	681	656	638	67
180°	675	675	675	675	675	



TEST NUMBER: P522325

CATALOG NUMBER: SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (5000K)

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
92.5°	0.9	0.9	0.9	1.9	2.8	9.9	11.0	9.6	9.6
95°	2.9	2.9	4.0	12.6	12.0	20.4	28.7	26.9	26.9
97.5°	5.8	6.4	9.2	37.3	28.1	27.3	38.7	43.1	43.9
100°	8.6	9.2	13.8	60.9	41.8	35.7	42.4	50.5	52.2
102.5°	11.8	12.8	22.0	95.8	58.8	41.9	48.4	55.5	57.7
105°	17.8	19.4	45.3	160.6	88.8	54.6	60.7	63.7	65.3
107.5°	26.4	33.2	122.0	225.6	126.1	72.2	78.6	78.2	79.7
110°	35.5	49.5	210.9	261.2	153.6	85.8	86.0	90.5	88.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	58.9	98.5	314.5	295.4	181.1	102.1	92.8	102.9	103.5
115°	161.6	277.6	429.8	343.4	221.8	131.0	105.5	115.3	119.2
117.5°	400.7	483.0	488.9	386.0	262.4	163.3	119.9	124.3	129.4
120°	543.3	560.1	516.4	412.1	289.4	186.3	131.8	130.2	135.8
122.5°	599.2	593.2	538.8	436.5	316.0	210.7	146.5	137.5	141.3
125°	644.2	628.5	566.8	470.2	354.8	247.2	174.2	149.6	149.6
127.5°	671.0	652.7	592.5	500.1	389.7	284.0	207.6	169.2	163.9
130°	686.6	667.0	608.1	520.8	412.6	307.8	231.0	186.1	177.7
132.5°	698.5	680.7	622.7	537.0	435.1	331.2	254.3	207.0	193.3
135°	712.9	697.8	645.3	561.8	466.5	366.2	289.4	243.3	229.2
137.5°	722.2	710.5	665.6	582.1	495.6	400.9	324.8	278.5	265.8
140°	727.3	717.7	675.7	594.2	513.5	423.3	349.6	302.3	290.6
142.5°	732.3	724.6	683.0	607.6	530.9	445.6	373.9	326.6	313.9
145°	742.7	733.8	695.2	623.7	555.9	476.9	411.5	361.9	350.7
147.5°	750.1	739.3	705.1	641.1	579.5	505.2	446.0	398.2	387.1
150°	751.9	740.7	710.7	650.3	593.7	522.6	467.1	421.6	410.9
152.5°	750.5	742.0	714.8	658.2	605.7	539.4	486.3	444.0	434.3
155°	751.3	743.5	718.1	668.9	620.7	563.0	515.2	477.7	467.7
157.5°	747.9	742.7	720.4	677.0	634.5	584.0	541.7	510.2	500.0
160°	747.9	740.1	720.4	681.7	644.2	597.7	558.2	529.9	521.5
162.5°	742.9	735.9	719.9	685.1	653.3	610.4	573.8	547.4	541.2
165°	733.6	728.0	717.5	689.5	664.8	627.8	596.0	572.4	568.5
167.5°	726.4	718.6	712.9	689.3	672.6	640.3	614.8	595.3	593.0
170°	718.1	713.1	708.4	688.0	676.3	649.4	628.1	608.6	606.3
172.5°	707.6	704.8	702.4	687.2	678.6	657.0	639.6	621.8	617.8
175°	691.2	693.4	692.9	685.3	680.8	666.8	656.2	643.5	638.4
177.5°	681.1	680.2	682.5	681.1	680.6	672.1	669.2	660.5	663.2
180°	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1	675.1

(END OF REPORT)