

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: P522321

Luminaire Tested: **SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522321
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

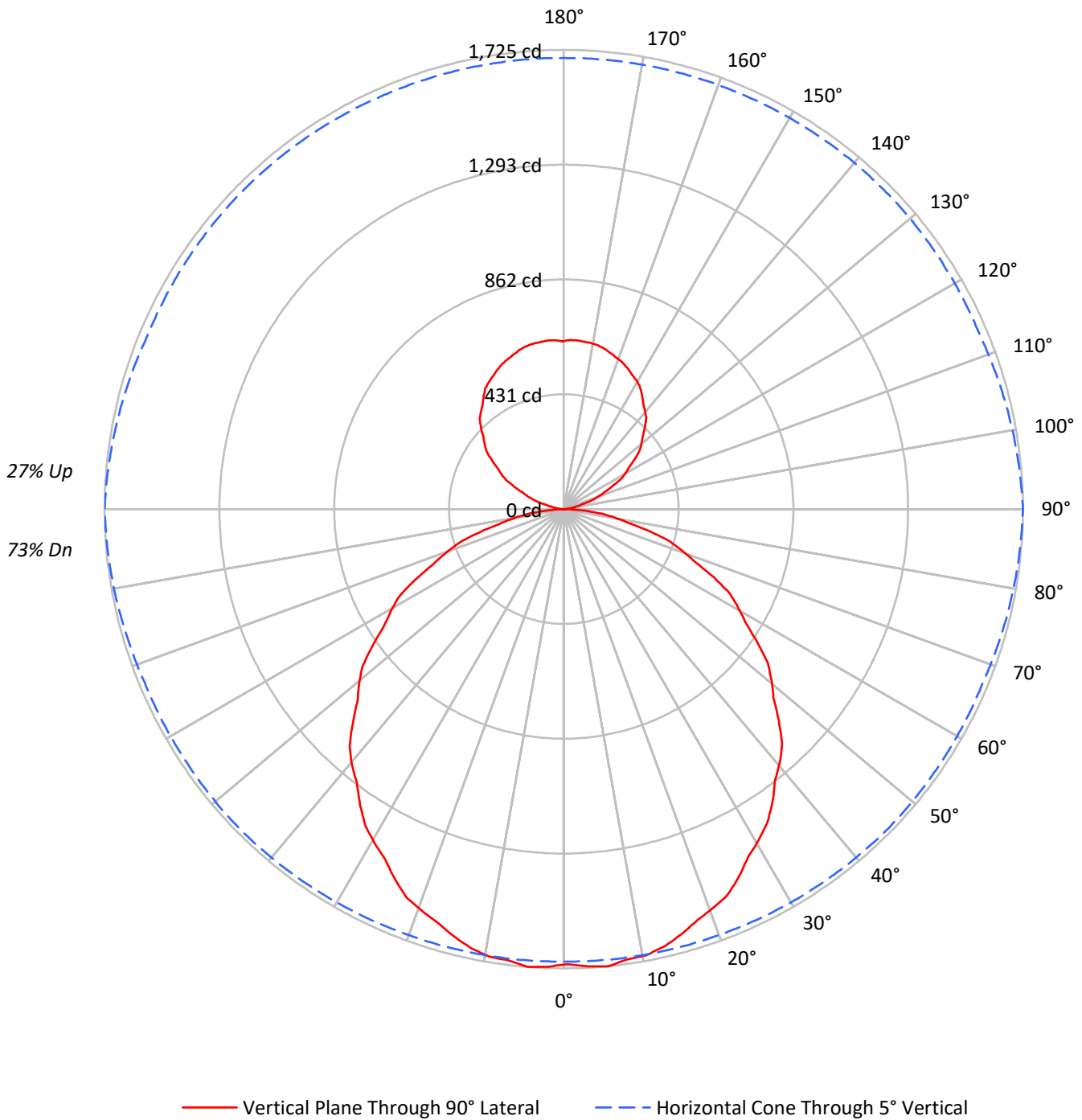
Lumens per Lamp: N/A
Luminaire Lumens: 6528.7 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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	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°	27593	27593	27593
5°	27540	27951	27460
10°	27586	27922	27234
15°	27554	27686	27244
20°	27283	27484	26663
25°	26861	27227	26306
30°	26690	26892	25963
35°	26274	26621	25332
40°	25914	26346	25029
45°	25398	25843	24395
50°	24825	25387	23893
55°	24192	24769	23037
60°	23431	24312	22294
65°	22384	23690	21005
70°	21158	22405	19733
75°	19370	20711	17792
80°	16709	17982	15072
85°	11949	13931	10485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	2.5
10°-20°	461.9	7.1
20°-30°	695.0	10.6
30°-40°	830.2	12.7
40°-50°	853.1	13.1
50°-60°	766.8	11.7
60°-70°	582.9	8.9
70°-80°	332.1	5.1
80°-90°	86.5	1.3
90°-100°	16.6	0.3
100°-110°	71.7	1.1
110°-120°	204.5	3.1
120°-130°	311.0	4.8
130°-140°	336.4	5.2
140°-150°	321.4	4.9
150°-160°	264.4	4.0
160°-170°	172.7	2.6
170°-180°	59.7	0.9
0°-30°	1318.6	20.2
0°-40°	2148.8	32.9
0°-60°	3768.7	57.7
0°-90°	4770.2	73.1
90°-120°	292.8	4.5
90°-150°	1261.7	19.3
90°-180°	1758.0	26.9
0°-180°	6528.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1709	1709	1709	1709	1709	
5°	1699	1710	1725	1698	1694	162
15°	1648	1643	1656	1638	1630	464
25°	1508	1533	1528	1509	1477	697
35°	1333	1352	1351	1320	1285	833
45°	1112	1125	1132	1096	1068	855
55°	859	877	880	841	818	766
65°	586	600	620	579	550	579
75°	310	321	332	305	285	328
85°	64	77	75	67	57	79
90°	0	0	0	0	0	2
95°	3	4	11	27	25	3
105°	17	42	83	57	61	19
115°	151	401	207	98	111	208
125°	601	529	331	163	140	528
135°	666	602	436	270	214	513
145°	693	649	519	384	327	434
155°	701	670	579	481	436	324
165°	685	670	621	556	531	195
175°	645	647	636	612	596	63
180°	630	630	630	630	630	



TEST NUMBER: P522321

CATALOG NUMBER: SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0	1709.0
2.5°	1706.6	1705.1	1712.1	1704.6	1719.1	1711.5	1706.6	1709.4	1694.1
5°	1699.2	1703.0	1710.0	1703.6	1724.6	1694.1	1698.2	1695.3	1694.3
7.5°	1693.6	1696.6	1694.7	1690.8	1707.8	1688.3	1686.5	1680.2	1678.3
10°	1682.6	1686.4	1680.7	1683.1	1703.1	1674.5	1674.8	1659.2	1661.1
12.5°	1662.3	1670.7	1669.0	1660.5	1684.4	1660.3	1665.4	1654.4	1650.2
15°	1648.4	1639.8	1642.6	1644.8	1656.3	1629.5	1637.7	1624.2	1629.9
17.5°	1619.1	1613.8	1615.6	1609.9	1623.1	1595.6	1600.0	1589.2	1585.4
20°	1587.9	1587.9	1589.8	1587.2	1599.6	1572.9	1574.2	1555.6	1551.8
22.5°	1564.5	1560.6	1571.1	1562.9	1573.8	1547.9	1547.7	1524.6	1533.0
25°	1507.8	1512.6	1533.2	1515.0	1528.3	1495.9	1508.8	1483.3	1476.6
27.5°	1464.5	1466.0	1477.3	1467.4	1476.8	1451.7	1463.3	1431.0	1421.5
30°	1431.6	1427.8	1449.2	1433.8	1442.4	1424.2	1425.8	1390.7	1392.6
32.5°	1386.3	1387.1	1410.9	1400.1	1404.1	1379.9	1384.4	1359.1	1348.8
35°	1333.0	1333.0	1352.5	1341.0	1350.6	1321.0	1320.3	1293.8	1285.2
37.5°	1270.9	1264.8	1288.5	1282.4	1289.8	1262.3	1252.7	1227.6	1222.7
40°	1229.5	1225.7	1243.2	1239.5	1250.0	1223.3	1209.0	1185.6	1187.5
42.5°	1176.4	1180.2	1194.7	1196.4	1202.3	1173.3	1164.5	1137.9	1139.8
45°	1112.3	1110.4	1125.0	1124.2	1131.8	1107.0	1095.7	1064.5	1068.4
47.5°	1032.8	1035.5	1051.2	1049.5	1060.0	1037.8	1019.7	998.9	994.1
50°	988.3	990.2	1002.0	1004.1	1010.7	987.8	973.6	952.1	951.2
52.5°	934.4	932.5	949.6	954.0	959.2	942.4	924.4	899.7	896.5
55°	859.4	860.3	877.0	883.7	879.9	868.4	840.8	816.5	818.4
57.5°	777.2	784.2	792.0	803.7	804.5	786.0	768.0	744.3	740.4
60°	725.6	726.5	741.2	752.9	752.9	732.9	710.9	690.4	690.4
62.5°	667.0	671.8	684.2	695.2	700.6	684.4	657.0	635.7	634.2
65°	585.9	586.9	599.6	614.4	620.1	598.2	579.1	554.6	549.8
67.5°	502.2	506.2	516.4	528.1	534.8	511.1	491.0	471.9	473.4
70°	448.2	449.2	457.0	471.7	474.6	455.5	435.5	418.0	418.0
72.5°	389.6	396.0	402.3	415.5	417.6	400.8	384.8	367.9	364.1
75°	310.5	315.3	321.3	329.2	332.0	317.7	304.7	289.9	285.2
77.5°	232.0	236.6	246.7	247.8	247.3	237.3	227.1	216.1	211.3
80°	179.7	183.5	194.3	196.2	193.4	185.7	174.8	166.9	162.1
82.5°	130.5	137.3	145.1	147.0	143.4	139.5	130.3	120.8	116.8
85°	64.5	68.3	77.1	80.9	75.2	73.3	67.4	59.5	56.6
87.5°	12.5	15.6	23.4	28.8	21.9	25.7	19.5	14.0	12.5
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	1.7	2.6	9.3	10.3	9.0	9.0
95°	2.7	2.7	3.7	11.8	11.2	19.1	26.7	25.1	25.1
97.5°	5.5	6.0	8.6	34.8	26.2	25.5	36.2	40.2	41.0
100°	8.0	8.5	12.8	56.8	39.1	33.3	39.6	47.1	48.7
102.5°	11.0	12.0	20.5	89.4	54.9	39.1	45.2	51.8	53.8
105°	16.6	18.2	42.3	149.9	82.9	51.0	56.7	59.4	61.0
107.5°	24.6	31.0	113.8	210.6	117.7	67.4	73.4	73.0	74.4
110°	33.2	46.2	196.9	243.8	143.4	80.1	80.2	84.5	82.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	55.0	91.9	293.6	275.8	169.1	95.3	86.7	96.1	96.6
115°	150.9	259.1	401.2	320.5	207.0	122.3	98.4	107.6	111.3
117.5°	374.1	450.8	456.3	360.3	244.9	152.4	111.9	116.0	120.8
120°	507.2	522.8	482.0	384.7	270.2	173.9	123.0	121.6	126.8
122.5°	559.4	553.7	503.0	407.4	295.0	196.6	136.7	128.4	131.9
125°	601.3	586.7	529.1	438.9	331.1	230.7	162.6	139.6	139.6
127.5°	626.3	609.3	553.1	466.8	363.8	265.1	193.8	157.9	153.0
130°	640.9	622.6	567.6	486.1	385.2	287.4	215.6	173.7	165.8
132.5°	652.0	635.4	581.3	501.3	406.2	309.2	237.4	193.3	180.4
135°	665.5	651.4	602.4	524.4	435.5	341.8	270.2	227.1	214.0
137.5°	674.2	663.2	621.3	543.4	462.6	374.2	303.2	259.9	248.1
140°	678.9	670.0	630.7	554.7	479.3	395.1	326.3	282.2	271.2
142.5°	683.6	676.4	637.6	567.2	495.6	416.0	349.0	304.9	293.1
145°	693.3	685.0	648.9	582.2	518.9	445.2	384.1	337.9	327.4
147.5°	700.2	690.1	658.2	598.4	541.0	471.6	416.3	371.7	361.3
150°	701.9	691.4	663.4	607.1	554.2	487.8	436.0	393.5	383.6
152.5°	700.6	692.7	667.2	614.4	565.4	503.5	454.0	414.5	405.4
155°	701.4	694.0	670.3	624.4	579.4	525.5	480.9	446.0	436.5
157.5°	698.1	693.3	672.5	632.0	592.3	545.1	505.7	476.2	466.7
160°	698.1	690.8	672.5	636.4	601.3	557.9	521.1	494.7	486.8
162.5°	693.4	686.9	672.0	639.5	609.9	569.8	535.6	511.0	505.2
165°	684.8	679.5	669.8	643.6	620.6	586.0	556.4	534.4	530.7
167.5°	678.0	670.8	665.5	643.4	627.8	597.7	573.9	555.7	553.6
170°	670.3	665.6	661.2	642.3	631.3	606.2	586.3	568.1	566.0
172.5°	660.5	657.9	655.7	641.5	633.4	613.3	597.0	580.5	576.7
175°	645.2	647.3	646.8	639.7	635.6	622.5	612.5	600.7	596.0
177.5°	635.8	634.9	637.0	635.8	635.3	627.4	624.6	616.6	619.1
180°	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2	630.2

(END OF REPORT)