

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: P522361

Luminaire Tested: **SQW-F-050U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522361
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-050U-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

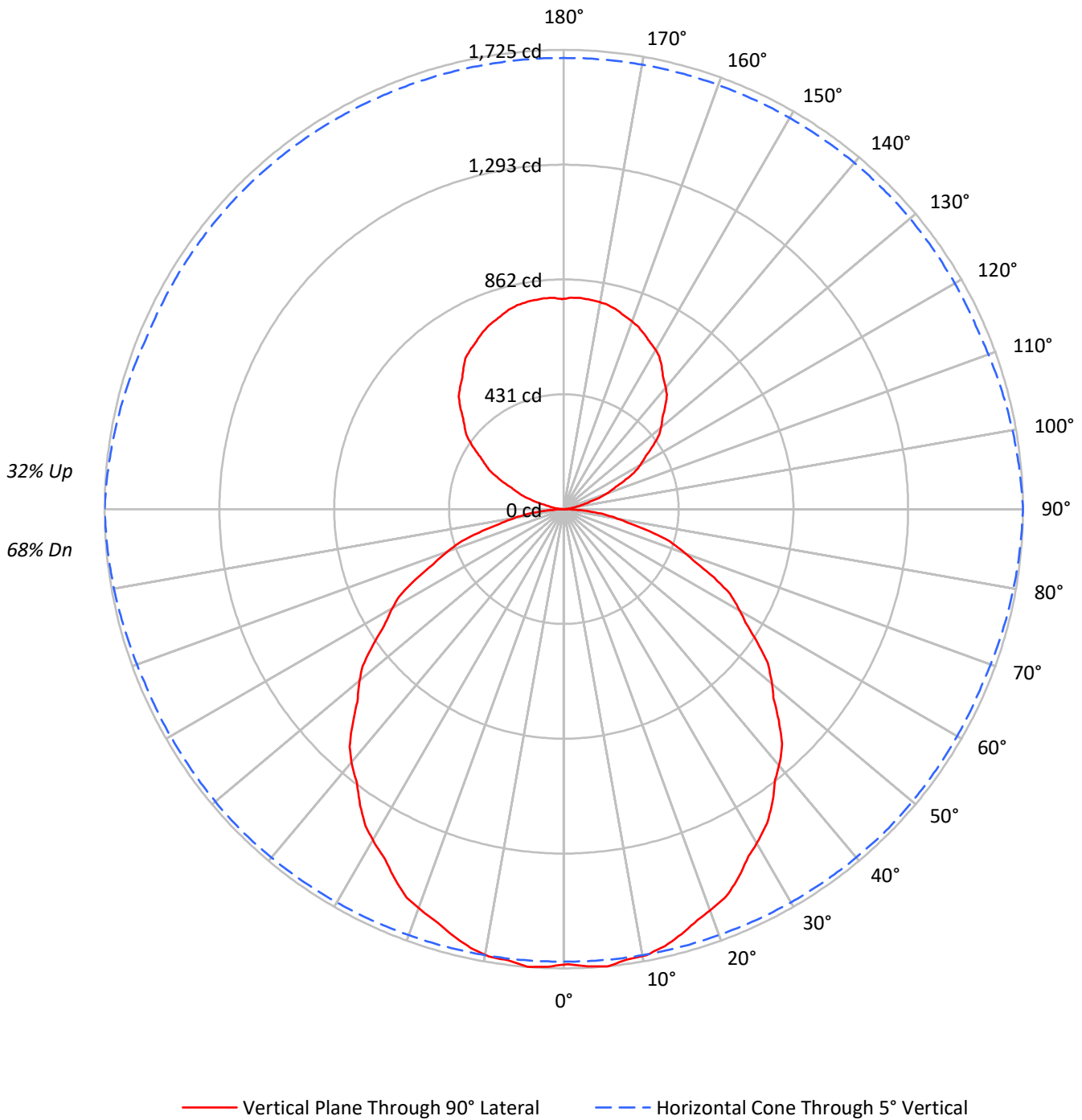
Lumens per Lamp: N/A
Luminaire Lumens: 6969.8 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 76.9
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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	102	97	93	89	96	92	88	85	82	79	77	73	71	69	64	63	61	57
2	93	85	78	73	87	80	74	70	72	67	63	64	60	57	56	54	51	48
3	84	74	67	61	79	70	64	58	63	58	53	56	52	48	50	46	44	40
4	77	66	57	51	72	62	55	49	56	50	45	50	45	41	44	41	37	34
5	71	59	50	44	66	56	48	42	50	44	39	45	40	36	40	36	32	30
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	36	32	29	26
7	60	48	39	33	57	45	38	32	41	35	30	37	32	28	33	29	25	23
8	56	43	35	30	53	41	34	29	37	31	27	34	28	25	30	26	23	20
9	52	40	32	26	49	38	31	26	34	28	24	31	26	22	28	24	20	18
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

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	2.3
10°-20°	461.9	6.6
20°-30°	695.0	10.0
30°-40°	830.2	11.9
40°-50°	853.1	12.2
50°-60°	766.8	11.0
60°-70°	582.9	8.4
70°-80°	332.1	4.8
80°-90°	86.5	1.2
90°-100°	20.7	0.3
100°-110°	89.7	1.3
110°-120°	255.9	3.7
120°-130°	389.0	5.6
130°-140°	420.8	6.0
140°-150°	402.0	5.8
150°-160°	330.7	4.7
160°-170°	216.1	3.1
170°-180°	74.7	1.1
0°-30°	1318.6	18.9
0°-40°	2148.8	30.8
0°-60°	3768.7	54.1
0°-90°	4770.2	68.4
90°-120°	366.3	5.3
90°-150°	1578.1	22.6
90°-180°	2200.0	31.6
0°-180°	6969.8	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	5	14	34	32	4
105°	21	53	104	71	76	24
115°	189	502	259	123	139	260
125°	752	662	414	203	175	661
135°	832	754	545	338	268	642
145°	867	812	649	480	410	543
155°	877	838	725	602	546	405
165°	856	838	776	696	664	243
175°	807	809	795	766	745	78
180°	788	788	788	788	788	



TEST NUMBER: P522361

CATALOG NUMBER: SQW-F-050U-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°	1.1	1.1	1.1	2.2	3.2	11.6	12.8	11.2	11.2
95°	3.3	3.3	4.7	14.7	14.1	23.9	33.5	31.5	31.5
97.5°	6.8	7.5	10.7	43.5	32.8	31.9	45.2	50.3	51.3
100°	10.0	10.7	16.1	71.1	48.8	41.7	49.5	58.9	60.9
102.5°	13.8	15.0	25.7	111.8	68.7	48.9	56.5	64.8	67.3
105°	20.7	22.7	52.9	187.5	103.7	63.8	70.9	74.3	76.3
107.5°	30.8	38.8	142.4	263.4	147.2	84.3	91.8	91.3	93.0
110°	41.5	57.8	246.3	305.0	179.3	100.2	100.4	105.7	103.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	68.8	115.0	367.2	344.9	211.5	119.2	108.4	120.2	120.9
115°	188.7	324.1	501.9	400.9	259.0	153.0	123.1	134.6	139.2
117.5°	467.9	563.9	570.8	450.7	306.3	190.7	140.0	145.1	151.1
120°	634.4	654.0	602.9	481.2	337.9	217.5	153.9	152.0	158.6
122.5°	699.7	692.6	629.1	509.6	369.0	246.0	171.0	160.6	165.0
125°	752.1	733.8	661.8	549.0	414.2	288.6	203.4	174.7	174.7
127.5°	783.5	762.1	691.8	583.9	455.0	331.6	242.4	197.5	191.4
130°	801.7	778.8	710.0	608.1	481.8	359.4	269.7	217.3	207.4
132.5°	815.6	794.8	727.1	627.0	508.0	386.7	297.0	241.7	225.6
135°	832.4	814.8	753.5	655.9	544.7	427.6	337.9	284.0	267.7
137.5°	843.3	829.5	777.2	679.7	578.7	468.1	379.3	325.1	310.4
140°	849.2	838.0	788.9	693.8	599.6	494.2	408.2	353.0	339.3
142.5°	855.1	846.0	797.5	709.4	619.9	520.3	436.6	381.4	366.6
145°	867.2	856.8	811.7	728.3	649.1	556.8	480.5	422.6	409.5
147.5°	875.8	863.2	823.3	748.5	676.7	589.9	520.7	464.9	452.0
150°	877.9	864.9	829.8	759.3	693.2	610.2	545.4	492.2	479.8
152.5°	876.3	866.4	834.6	768.5	707.2	629.8	567.8	518.5	507.1
155°	877.3	868.1	838.5	781.0	724.7	657.3	601.6	557.8	546.0
157.5°	873.3	867.2	841.1	790.5	740.9	681.9	632.5	595.7	583.8
160°	873.3	864.1	841.1	796.0	752.1	697.8	651.8	618.7	608.9
162.5°	867.4	859.3	840.6	799.9	762.8	712.7	670.0	639.2	632.0
165°	856.5	850.0	837.8	805.0	776.2	733.0	695.9	668.4	663.8
167.5°	848.1	839.1	832.4	804.8	785.3	747.6	717.9	695.1	692.4
170°	838.5	832.6	827.1	803.3	789.6	758.2	733.4	710.6	708.0
172.5°	826.1	822.9	820.1	802.4	792.3	767.2	746.8	726.1	721.4
175°	807.0	809.6	809.0	800.2	795.0	778.6	766.2	751.3	745.4
177.5°	795.2	794.2	796.8	795.2	794.7	784.7	781.3	771.2	774.4
180°	788.3	788.3	788.3	788.3	788.3	788.3	788.3	788.3	788.3

(END OF REPORT)