

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: P522364

Luminaire Tested: **SQW-F-050U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522364
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

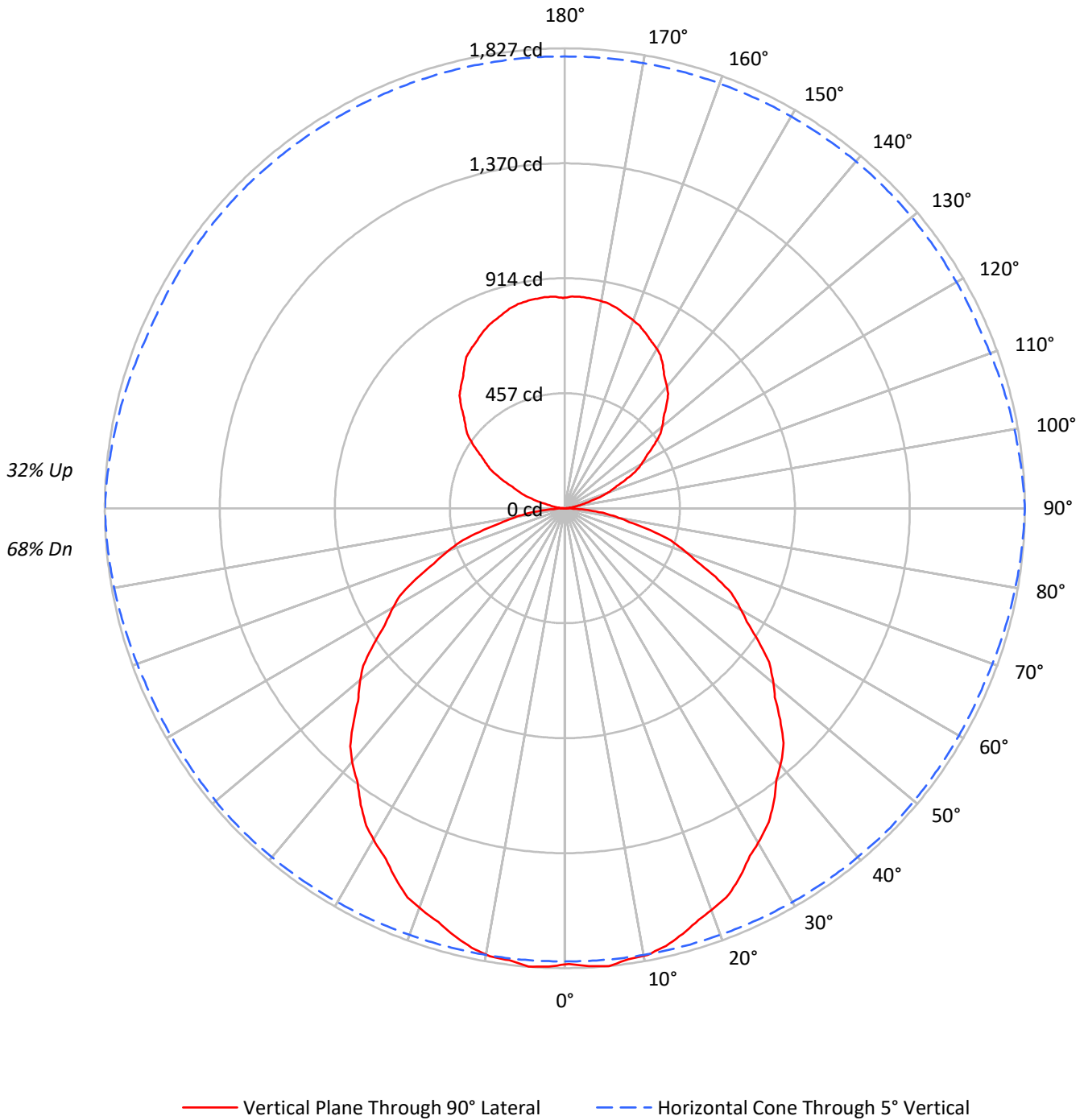
Lumens per Lamp: N/A
Luminaire Lumens: 7384.8 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

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°	29237	29237	29237
5°	29180	29616	29096
10°	29229	29586	28857
15°	29195	29334	28866
20°	28909	29122	28251
25°	28461	28848	27872
30°	28280	28493	27509
35°	27839	28206	26840
40°	27457	27914	26519
45°	26909	27382	25848
50°	26302	26899	25314
55°	25633	26244	24408
60°	24826	25762	23621
65°	23717	25100	22254
70°	22419	23741	20908
75°	20524	21946	18846
80°	17703	19052	15974
85°	12653	14765	11115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	2.3
10°-20°	489.4	6.6
20°-30°	736.4	10.0
30°-40°	879.6	11.9
40°-50°	903.9	12.2
50°-60°	812.5	11.0
60°-70°	617.6	8.4
70°-80°	351.9	4.8
80°-90°	91.6	1.2
90°-100°	21.9	0.3
100°-110°	95.1	1.3
110°-120°	271.1	3.7
120°-130°	412.2	5.6
130°-140°	445.8	6.0
140°-150°	426.0	5.8
150°-160°	350.4	4.7
160°-170°	228.9	3.1
170°-180°	79.2	1.1
0°-30°	1397.2	18.9
0°-40°	2276.8	30.8
0°-60°	3993.1	54.1
0°-90°	5054.3	68.4
90°-120°	388.1	5.3
90°-150°	1672.1	22.6
90°-180°	2331.0	31.6
0°-180°	7384.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1811	1811	1811	1811	1811	
5°	1800	1812	1827	1799	1795	171
15°	1747	1740	1755	1735	1727	492
25°	1598	1624	1619	1599	1564	739
35°	1412	1433	1431	1399	1362	883
45°	1178	1192	1199	1161	1132	906
55°	911	929	932	891	867	812
65°	621	635	657	614	582	614
75°	329	340	352	323	302	348
85°	68	82	80	71	60	84
90°	0	0	0	0	0	2
95°	4	5	15	36	33	4
105°	22	56	110	75	81	25
115°	200	532	274	130	148	275
125°	797	701	439	216	185	700
135°	882	798	577	358	284	680
145°	919	860	688	509	434	576
155°	930	888	768	637	579	430
165°	908	888	822	737	703	258
175°	855	857	842	812	790	83
180°	835	835	835	835	835	



TEST NUMBER: P522364

CATALOG NUMBER: SQW-F-050U-125D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8
2.5°	1808.3	1806.7	1814.1	1806.1	1821.5	1813.4	1808.3	1811.2	1795.0
5°	1800.4	1804.5	1811.8	1805.1	1827.3	1794.9	1799.4	1796.3	1795.2
7.5°	1794.4	1797.6	1795.7	1791.5	1809.5	1788.9	1787.0	1780.3	1778.3
10°	1782.8	1786.9	1780.8	1783.3	1804.6	1774.2	1774.5	1758.0	1760.1
12.5°	1761.3	1770.2	1768.3	1759.4	1784.7	1759.2	1764.6	1752.9	1748.5
15°	1746.6	1737.5	1740.4	1742.7	1754.9	1726.6	1735.2	1720.9	1726.9
17.5°	1715.6	1709.9	1711.8	1705.7	1719.7	1690.6	1695.3	1683.8	1679.8
20°	1682.5	1682.5	1684.5	1681.7	1694.9	1666.5	1668.0	1648.2	1644.2
22.5°	1657.6	1653.6	1664.7	1656.0	1667.6	1640.0	1639.8	1615.4	1624.3
25°	1597.6	1602.7	1624.5	1605.2	1619.3	1584.9	1598.6	1571.6	1564.5
27.5°	1551.7	1553.3	1565.3	1554.8	1564.7	1538.2	1550.4	1516.3	1506.1
30°	1516.9	1512.9	1535.5	1519.2	1528.3	1509.1	1510.7	1473.5	1475.5
32.5°	1468.9	1469.7	1495.0	1483.5	1487.7	1462.0	1466.8	1440.1	1429.2
35°	1412.4	1412.4	1433.1	1420.9	1431.0	1399.7	1398.9	1370.8	1361.7
37.5°	1346.6	1340.1	1365.2	1358.8	1366.7	1337.5	1327.3	1300.7	1295.5
40°	1302.7	1298.7	1317.2	1313.3	1324.4	1296.1	1281.0	1256.2	1258.2
42.5°	1246.4	1250.5	1265.9	1267.7	1273.9	1243.2	1233.8	1205.7	1207.7
45°	1178.5	1176.5	1192.0	1191.1	1199.2	1172.9	1161.0	1127.9	1132.0
47.5°	1094.3	1097.2	1113.8	1112.0	1123.1	1099.6	1080.5	1058.4	1053.3
50°	1047.1	1049.2	1061.6	1063.9	1070.9	1046.7	1031.6	1008.8	1007.8
52.5°	990.0	988.0	1006.2	1010.8	1016.3	998.5	979.5	953.3	949.9
55°	910.6	911.6	929.2	936.3	932.3	920.1	890.9	865.1	867.1
57.5°	823.4	830.9	839.2	851.6	852.4	832.8	813.7	788.6	784.5
60°	768.8	769.8	785.4	797.8	797.8	776.5	753.3	731.5	731.5
62.5°	706.7	711.8	724.9	736.6	742.3	725.1	696.2	673.6	671.9
65°	620.8	621.8	635.3	651.0	657.0	633.8	613.6	587.6	582.5
67.5°	532.1	536.3	547.2	559.5	566.6	541.5	520.3	500.0	501.6
70°	474.9	475.9	484.2	499.8	502.9	482.6	461.5	442.9	442.9
72.5°	412.9	419.5	426.3	440.2	442.4	424.6	407.7	389.8	385.7
75°	329.0	334.1	340.4	348.8	351.8	336.6	322.8	307.2	302.1
77.5°	245.8	250.7	261.4	262.6	262.0	251.5	240.7	229.0	223.9
80°	190.4	194.4	205.9	207.9	204.9	196.8	185.2	176.8	171.8
82.5°	138.2	145.5	153.8	155.7	151.9	147.9	138.0	128.0	123.8
85°	68.3	72.3	81.7	85.7	79.7	77.7	71.4	63.0	60.0
87.5°	13.2	16.5	24.8	30.5	23.2	27.2	20.7	14.9	13.2
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	2.3	3.4	12.3	13.6	11.9	11.9
95°	3.5	3.5	5.0	15.6	14.9	25.3	35.5	33.3	33.3
97.5°	7.2	7.9	11.3	46.1	34.7	33.8	47.9	53.3	54.3
100°	10.6	11.3	17.0	75.3	51.8	44.1	52.5	62.4	64.5
102.5°	14.6	15.9	27.2	118.5	72.7	51.8	59.8	68.7	71.3
105°	22.0	24.1	56.0	198.6	109.9	67.6	75.2	78.7	80.8
107.5°	32.6	41.1	150.9	279.1	156.0	89.3	97.3	96.7	98.6
110°	44.0	61.3	260.9	323.1	190.0	106.1	106.4	112.0	109.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	72.9	121.8	389.1	365.5	224.0	126.3	114.9	127.4	128.0
115°	199.9	343.4	531.8	424.8	274.4	162.1	130.5	142.6	147.5
117.5°	495.7	597.5	604.8	477.5	324.6	202.0	148.3	153.7	160.1
120°	672.1	692.9	638.8	509.9	358.0	230.5	163.1	161.1	168.0
122.5°	741.3	733.9	666.6	540.0	390.9	260.6	181.2	170.1	174.8
125°	796.9	777.5	701.2	581.7	438.9	305.8	215.5	185.1	185.1
127.5°	830.1	807.5	733.0	618.7	482.1	351.4	256.8	209.3	202.8
130°	849.4	825.1	752.3	644.3	510.5	380.8	285.7	230.2	219.8
132.5°	864.1	842.1	770.4	664.3	538.3	409.7	314.7	256.1	239.1
135°	882.0	863.3	798.3	695.0	577.1	453.0	358.0	300.9	283.6
137.5°	893.5	878.9	823.4	720.2	613.2	496.0	401.9	344.5	328.8
140°	899.7	887.9	835.9	735.1	635.3	523.7	432.5	374.0	359.5
142.5°	906.0	896.4	845.0	751.7	656.8	551.3	462.6	404.1	388.4
145°	918.9	907.8	860.0	771.6	687.7	590.0	509.1	447.8	433.9
147.5°	927.9	914.6	872.4	793.1	716.9	625.0	551.7	492.6	478.9
150°	930.2	916.4	879.2	804.6	734.5	646.5	577.8	521.5	508.4
152.5°	928.5	918.0	884.3	814.3	749.3	667.3	601.7	549.3	537.3
155°	929.5	919.8	888.4	827.5	767.9	696.5	637.4	591.0	578.6
157.5°	925.3	918.9	891.2	837.6	785.0	722.5	670.2	631.2	618.5
160°	925.3	915.5	891.2	843.4	796.9	739.4	690.6	655.6	645.2
162.5°	919.0	910.4	890.7	847.5	808.3	755.2	709.9	677.2	669.6
165°	907.5	900.6	887.7	853.0	822.4	776.7	737.4	708.2	703.3
167.5°	898.6	889.0	882.0	852.8	832.1	792.2	760.6	736.5	733.7
170°	888.4	882.1	876.3	851.2	836.6	803.4	777.1	752.9	750.1
172.5°	875.3	871.9	869.0	850.1	839.5	812.8	791.3	769.3	764.3
175°	855.1	857.8	857.2	847.8	842.3	825.0	811.8	796.1	789.8
177.5°	842.6	841.5	844.3	842.6	842.0	831.5	827.8	817.1	820.5
180°	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2	835.2

(END OF REPORT)