

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: P522360

Luminaire Tested: **SQW-F-050U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522360
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

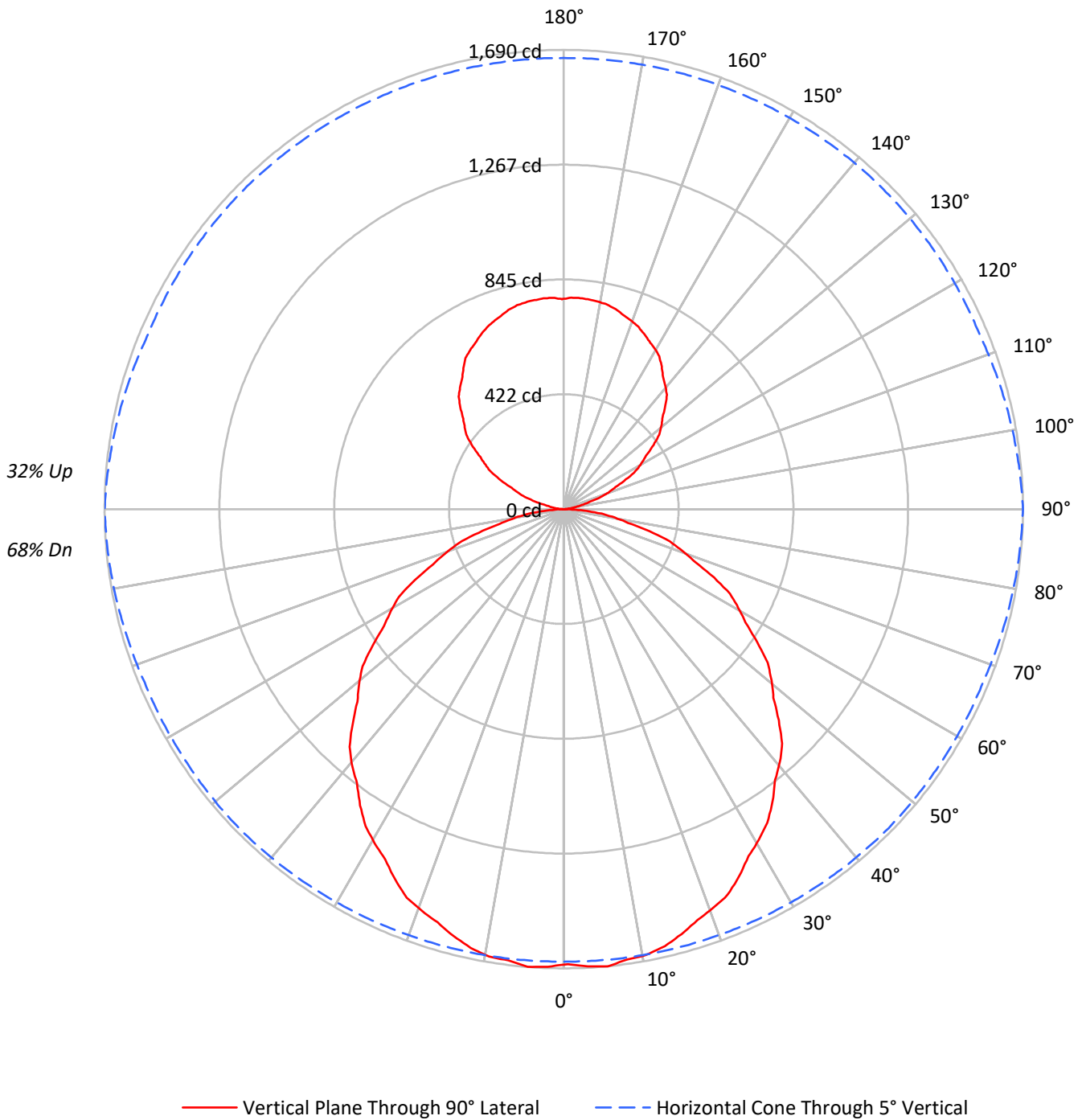
Lumens per Lamp: N/A
Luminaire Lumens: 6828.2 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	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°	27033	27033	27033
5°	26981	27384	26903
10°	27027	27355	26681
15°	26995	27122	26691
20°	26730	26926	26122
25°	26316	26674	25771
30°	26150	26345	25435
35°	25740	26081	24817
40°	25387	25811	24521
45°	24882	25320	23900
50°	24320	24872	23408
55°	23699	24265	22567
60°	22956	23818	21842
65°	21929	23209	20577
70°	20729	21951	19331
75°	18977	20293	17430
80°	16365	17610	14765
85°	11689	13653	10282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	2.3
10°-20°	452.5	6.6
20°-30°	680.9	10.0
30°-40°	813.3	11.9
40°-50°	835.7	12.2
50°-60°	751.3	11.0
60°-70°	571.1	8.4
70°-80°	325.4	4.8
80°-90°	84.7	1.2
90°-100°	20.3	0.3
100°-110°	87.9	1.3
110°-120°	250.7	3.7
120°-130°	381.1	5.6
130°-140°	412.2	6.0
140°-150°	393.9	5.8
150°-160°	323.9	4.7
160°-170°	211.7	3.1
170°-180°	73.2	1.1
0°-30°	1291.9	18.9
0°-40°	2105.2	30.8
0°-60°	3692.2	54.1
0°-90°	4673.4	68.4
90°-120°	358.9	5.3
90°-150°	1546.1	22.6
90°-180°	2155.0	31.6
0°-180°	6828.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1674	1674	1674	1674	1674	
5°	1665	1675	1690	1664	1660	158
15°	1615	1609	1623	1604	1597	455
25°	1477	1502	1497	1478	1447	683
35°	1306	1325	1323	1294	1259	816
45°	1090	1102	1109	1074	1047	838
55°	842	859	862	824	802	751
65°	574	587	608	567	539	568
75°	304	315	325	298	279	322
85°	63	76	74	66	56	77
90°	0	0	0	0	0	2
95°	3	5	14	33	31	4
105°	20	52	102	70	75	23
115°	185	492	254	121	136	254
125°	737	648	406	199	171	648
135°	816	738	534	331	262	629
145°	850	795	636	471	401	532
155°	860	821	710	589	535	397
165°	839	821	760	682	650	239
175°	791	793	779	751	730	77
180°	772	772	772	772	772	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3	1674.3
2.5°	1672.0	1670.5	1677.4	1670.0	1684.2	1676.8	1672.0	1674.7	1659.7
5°	1664.7	1668.5	1675.2	1669.0	1689.6	1659.7	1663.8	1660.9	1659.9
7.5°	1659.2	1662.2	1660.3	1656.5	1673.1	1654.1	1652.3	1646.1	1644.2
10°	1648.5	1652.2	1646.5	1648.9	1668.5	1640.5	1640.8	1625.5	1627.4
12.5°	1628.6	1636.8	1635.1	1626.8	1650.2	1626.6	1631.6	1620.8	1616.7
15°	1615.0	1606.6	1609.2	1611.4	1622.6	1596.4	1604.4	1591.2	1596.8
17.5°	1586.3	1581.0	1582.8	1577.2	1590.1	1563.2	1567.5	1556.9	1553.2
20°	1555.7	1555.7	1557.6	1555.0	1567.1	1540.9	1542.3	1524.0	1520.3
22.5°	1532.7	1529.0	1539.2	1531.2	1541.9	1516.4	1516.2	1493.7	1501.9
25°	1477.2	1481.9	1502.1	1484.2	1497.3	1465.5	1478.2	1453.1	1446.6
27.5°	1434.7	1436.2	1447.4	1437.6	1446.8	1422.3	1433.6	1402.0	1392.6
30°	1402.6	1398.8	1419.8	1404.7	1413.1	1395.3	1396.8	1362.4	1364.3
32.5°	1358.2	1358.9	1382.3	1371.7	1375.6	1351.8	1356.3	1331.5	1321.4
35°	1305.9	1305.9	1325.1	1313.8	1323.2	1294.2	1293.5	1267.5	1259.1
37.5°	1245.1	1239.1	1262.3	1256.4	1263.7	1236.7	1227.3	1202.7	1197.8
40°	1204.5	1200.8	1217.9	1214.3	1224.6	1198.4	1184.4	1161.5	1163.4
42.5°	1152.5	1156.2	1170.5	1172.1	1177.9	1149.5	1140.8	1114.8	1116.7
45°	1089.7	1087.9	1102.2	1101.4	1108.9	1084.5	1073.5	1042.9	1046.7
47.5°	1011.8	1014.5	1029.8	1028.2	1038.4	1016.7	999.0	978.6	974.0
50°	968.2	970.1	981.6	983.7	990.2	967.8	953.9	932.8	931.9
52.5°	915.4	913.5	930.3	934.7	939.7	923.2	905.6	881.5	878.3
55°	841.9	842.9	859.2	865.8	862.0	850.8	823.8	799.9	801.7
57.5°	761.4	768.3	775.9	787.4	788.2	770.0	752.4	729.1	725.4
60°	710.9	711.8	726.2	737.6	737.6	718.0	696.5	676.4	676.4
62.5°	653.5	658.1	670.3	681.1	686.4	670.5	643.7	622.8	621.3
65°	574.0	575.0	587.4	601.9	607.5	586.0	567.3	543.3	538.6
67.5°	492.0	495.9	505.9	517.4	523.9	500.7	481.0	462.3	463.8
70°	439.1	440.1	447.8	462.2	465.0	446.3	426.7	409.5	409.5
72.5°	381.7	387.9	394.2	407.0	409.1	392.6	377.0	360.4	356.7
75°	304.2	308.9	314.8	322.5	325.3	311.3	298.5	284.0	279.4
77.5°	227.3	231.8	241.7	242.8	242.2	232.5	222.5	211.7	207.0
80°	176.0	179.8	190.4	192.2	189.4	182.0	171.3	163.5	158.8
82.5°	127.8	134.6	142.2	144.0	140.4	136.7	127.6	118.4	114.4
85°	63.1	66.9	75.6	79.3	73.7	71.8	66.0	58.3	55.5
87.5°	12.2	15.2	23.0	28.2	21.4	25.2	19.1	13.7	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.0	1.0	1.0	2.1	3.1	11.4	12.6	11.0	11.0
95°	3.3	3.3	4.6	14.4	13.8	23.4	32.8	30.8	30.8
97.5°	6.7	7.3	10.5	42.6	32.1	31.2	44.3	49.3	50.2
100°	9.8	10.5	15.7	69.7	47.9	40.8	48.5	57.7	59.7
102.5°	13.5	14.7	25.2	109.6	67.3	47.9	55.3	63.5	66.0
105°	20.3	22.2	51.8	183.7	101.6	62.5	69.5	72.8	74.7
107.5°	30.2	38.0	139.5	258.1	144.2	82.6	89.9	89.5	91.1
110°	40.6	56.7	241.3	298.8	175.7	98.1	98.3	103.5	101.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	67.4	112.6	359.8	337.9	207.2	116.8	106.2	117.8	118.4
115°	184.9	317.6	491.7	392.8	253.7	149.9	120.6	131.9	136.4
117.5°	458.4	552.5	559.2	441.5	300.1	186.8	137.1	142.1	148.0
120°	621.5	640.7	590.7	471.4	331.1	213.1	150.8	149.0	155.4
122.5°	685.5	678.5	616.4	499.3	361.5	241.0	167.6	157.3	161.7
125°	736.9	718.9	648.4	537.8	405.8	282.7	199.3	171.1	171.1
127.5°	767.5	746.6	677.7	572.1	445.8	324.9	237.4	193.5	187.5
130°	785.4	762.9	695.6	595.7	472.0	352.1	264.2	212.8	203.2
132.5°	799.0	778.6	712.3	614.2	497.7	378.9	290.9	236.8	221.1
135°	815.5	798.2	738.2	642.6	533.6	418.9	331.1	278.3	262.2
137.5°	826.2	812.7	761.4	665.9	566.9	458.6	371.6	318.5	304.1
140°	831.9	821.0	772.9	679.7	587.4	484.2	399.9	345.8	332.4
142.5°	837.7	828.8	781.3	695.0	607.3	509.8	427.7	373.6	359.1
145°	849.6	839.4	795.2	713.5	635.9	545.5	470.7	414.0	401.2
147.5°	858.0	845.7	806.6	733.3	662.9	577.9	510.2	455.5	442.8
150°	860.1	847.3	812.9	743.9	679.2	597.8	534.3	482.2	470.0
152.5°	858.5	848.8	817.6	752.9	692.8	617.0	556.3	507.9	496.8
155°	859.5	850.5	821.4	765.1	710.0	644.0	589.4	546.5	534.9
157.5°	855.5	849.6	824.1	774.4	725.9	668.0	619.6	583.6	571.9
160°	855.5	846.5	824.1	779.8	736.9	683.7	638.5	606.2	596.6
162.5°	849.8	841.8	823.5	783.6	747.4	698.3	656.4	626.2	619.1
165°	839.1	832.7	820.8	788.7	760.5	718.2	681.8	654.8	650.3
167.5°	830.9	822.0	815.5	788.5	769.4	732.5	703.3	681.0	678.4
170°	821.4	815.7	810.3	787.0	773.6	742.8	718.5	696.2	693.6
172.5°	809.4	806.2	803.5	786.1	776.2	751.6	731.6	711.3	706.7
175°	790.6	793.2	792.6	783.9	778.8	762.8	750.6	736.1	730.3
177.5°	779.1	778.1	780.7	779.1	778.6	768.8	765.4	755.6	758.6
180°	772.3	772.3	772.3	772.3	772.3	772.3	772.3	772.3	772.3

(END OF REPORT)