

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: P511744

Luminaire Tested: **SQW-F-025U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511744
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-15,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

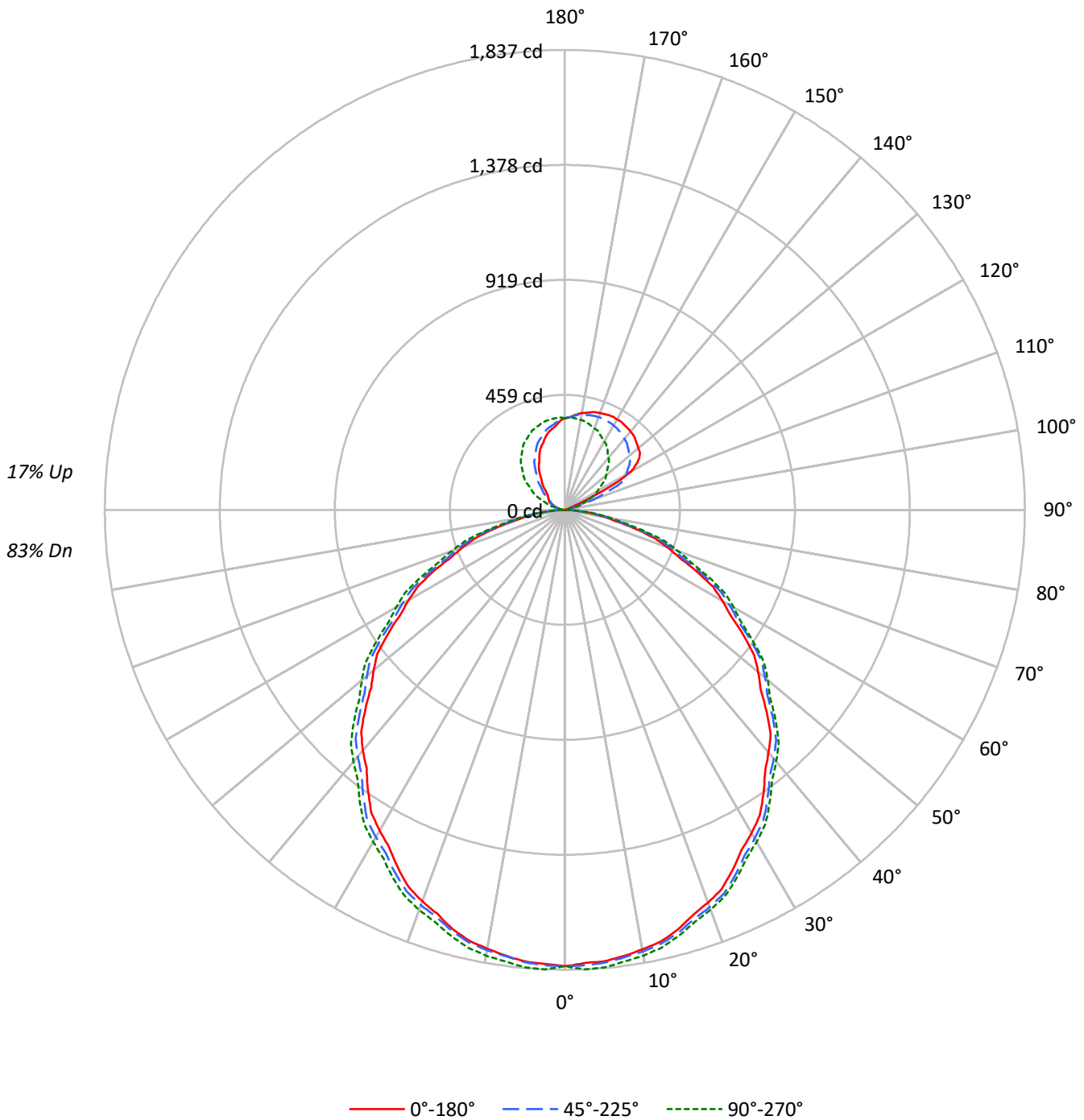
Lumens per Lamp: N/A
Luminaire Lumens: 5982.8 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 54.2
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83				
1	105	101	96	93	101	97	93	90	89	86	84	83	80	78	76	75	73	70				
2	96	88	81	76	92	84	79	73	78	73	69	72	69	65	67	64	61	58				
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49				
4	80	68	60	53	76	66	58	52	61	55	50	57	52	47	53	48	45	42				
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36				
6	68	55	46	40	65	53	45	39	50	43	37	46	40	36	43	38	34	32				
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28				
8	58	45	37	31	56	44	36	31	41	34	30	39	33	28	36	31	27	25				
9	54	41	33	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23				
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	22	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	58868	58868	58868
5°	58672	59450	58704
10°	58465	59284	58366
15°	58070	58872	57936
20°	57388	58419	57182
25°	56509	57828	56189
30°	55596	57087	55148
35°	54519	56214	54007
40°	53325	55348	52861
45°	52015	54344	51467
50°	50639	53151	50036
55°	48980	51739	48474
60°	46888	50182	46436
65°	44241	48214	43935
70°	40882	45414	40599
75°	35933	41048	36057
80°	29010	34031	29754
85°	16673	23342	20007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	2.9
10°-20°	491.1	8.2
20°-30°	736.0	12.3
30°-40°	875.4	14.6
40°-50°	896.3	15.0
50°-60°	799.2	13.4
60°-70°	597.0	10.0
70°-80°	327.1	5.5
80°-90°	76.7	1.3
90°-100°	9.0	0.1
100°-110°	41.0	0.7
110°-120°	119.0	2.0
120°-130°	179.6	3.0
130°-140°	192.3	3.2
140°-150°	183.8	3.1
150°-160°	152.2	2.5
160°-170°	99.9	1.7
170°-180°	34.7	0.6
0°-30°	1399.5	23.4
0°-40°	2274.8	38.0
0°-60°	3970.4	66.4
0°-90°	4971.2	83.1
90°-120°	169.0	2.8
90°-150°	724.8	12.1
90°-180°	1012.0	16.9
0°-180°	5982.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1823	1823	1823	1823	1823	
5°	1810	1816	1834	1814	1811	172
15°	1737	1749	1761	1741	1733	489
25°	1586	1610	1623	1602	1577	730
35°	1383	1411	1426	1402	1370	864
45°	1139	1175	1190	1161	1127	878
55°	870	904	919	894	861	776
65°	579	607	631	602	575	573
75°	288	310	329	307	289	307
85°	45	60	63	62	54	64
90°	1	1	0	1	2	1
95°	3	3	7	12	10	3
105°	11	27	47	31	33	13
115°	94	238	117	58	64	126
125°	364	315	184	87	80	319
135°	398	356	244	144	110	308
145°	414	382	296	209	173	260
155°	417	394	333	270	240	193
165°	403	391	358	319	299	114
175°	376	376	369	353	344	36
180°	366	366	366	366	366	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0
2.5°	1811.8	1820.4	1821.4	1820.2	1837.4	1821.0	1821.4	1819.7	1815.0
5°	1810.0	1812.0	1816.0	1813.5	1834.0	1812.5	1814.0	1810.0	1811.0
7.5°	1797.4	1798.8	1803.2	1798.5	1819.2	1798.3	1798.8	1794.6	1796.8
10°	1783.0	1785.9	1792.0	1786.5	1808.0	1785.5	1786.0	1781.0	1780.0
12.5°	1767.0	1768.4	1776.0	1770.5	1790.4	1768.7	1770.0	1762.6	1763.2
15°	1737.0	1741.9	1749.0	1740.5	1761.0	1739.5	1741.0	1734.0	1733.0
17.5°	1698.0	1706.6	1713.8	1705.3	1725.6	1703.5	1704.8	1695.1	1692.0
20°	1670.0	1677.8	1689.0	1680.4	1700.0	1675.6	1680.0	1664.0	1664.0
22.5°	1638.8	1643.5	1659.4	1650.1	1670.4	1646.0	1649.6	1629.6	1630.4
25°	1586.0	1592.8	1610.0	1602.5	1623.0	1597.6	1602.0	1579.0	1577.0
27.5°	1530.2	1538.2	1556.0	1549.1	1569.4	1544.2	1547.4	1522.1	1519.0
30°	1491.0	1499.8	1516.0	1511.4	1531.0	1506.6	1509.0	1482.9	1479.0
32.5°	1447.8	1458.2	1474.4	1473.8	1490.2	1468.1	1468.2	1441.3	1436.6
35°	1383.0	1392.8	1411.0	1411.3	1426.0	1403.5	1402.0	1375.9	1370.0
37.5°	1313.8	1324.9	1343.6	1346.1	1359.4	1338.5	1332.4	1306.3	1301.2
40°	1265.0	1277.7	1298.0	1301.3	1313.0	1290.5	1286.0	1259.9	1254.0
42.5°	1216.2	1228.9	1249.2	1254.0	1264.2	1245.6	1236.4	1210.2	1203.6
45°	1139.0	1152.7	1175.0	1182.2	1190.0	1173.4	1161.0	1134.8	1127.0
47.5°	1060.8	1073.5	1096.8	1106.7	1111.6	1097.5	1084.6	1057.4	1048.8
50°	1008.0	1020.7	1044.0	1053.1	1058.0	1046.3	1031.0	1003.8	996.0
52.5°	952.8	965.5	988.8	999.5	1003.6	993.4	978.2	951.0	943.2
55°	870.0	880.8	904.0	917.0	919.0	912.2	894.0	867.8	861.0
57.5°	783.6	794.2	817.2	831.3	834.6	827.8	808.4	782.5	776.6
60°	726.0	735.8	758.0	772.1	777.0	770.2	750.0	724.9	719.0
62.5°	667.6	676.6	698.0	712.9	719.4	711.8	690.8	666.5	660.6
65°	579.0	586.8	607.0	627.1	631.0	622.2	602.0	578.9	575.0
67.5°	491.4	497.3	516.2	535.9	541.0	532.0	511.2	491.5	486.8
70°	433.0	438.9	457.0	475.1	481.0	471.2	452.0	433.9	430.0
72.5°	374.6	379.7	397.8	414.3	420.2	412.0	392.8	376.3	372.4
75°	288.0	293.9	310.0	325.1	329.0	323.1	307.0	292.9	289.0
77.5°	207.2	210.9	224.8	236.5	239.8	235.5	223.2	210.8	208.8
80°	156.0	158.9	172.0	182.0	183.0	181.0	172.0	162.0	160.0
82.5°	108.8	112.5	124.8	133.2	131.0	132.2	125.6	116.4	115.2
85°	45.0	47.0	60.0	67.9	63.0	67.9	62.0	55.0	54.0
87.5°	5.0	5.8	10.6	19.1	16.8	20.7	17.0	12.2	12.4
90°	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	2.0
92.5°	1.0	1.8	1.0	1.6	1.6	4.0	3.4	2.6	2.8
95°	3.0	3.0	3.0	7.1	7.1	10.0	12.1	11.1	10.1
97.5°	4.4	4.4	5.8	19.9	15.7	13.4	18.8	19.4	19.4
100°	6.0	6.0	9.1	31.1	22.2	18.2	21.2	24.2	24.2
102.5°	7.7	8.5	13.9	48.6	31.1	22.4	24.4	26.6	27.4
105°	11.1	12.1	27.2	82.9	47.4	30.6	31.3	32.3	33.3
107.5°	16.5	20.5	68.4	118.4	67.1	39.5	41.7	39.9	39.9
110°	22.2	30.1	115.9	140.8	81.7	46.2	47.4	46.4	46.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	35.1	58.7	173.2	159.3	96.2	54.4	52.2	54.4	52.8
115°	93.8	152.9	237.9	185.0	117.0	67.7	58.5	62.5	63.5
117.5°	223.4	267.4	269.8	206.5	138.3	82.5	63.5	68.2	70.2
120°	306.5	313.4	284.3	220.2	151.2	93.1	67.6	70.6	72.6
122.5°	338.0	331.4	297.2	233.1	164.1	105.2	74.0	73.8	75.8
125°	364.0	350.2	314.6	252.5	184.5	124.4	86.7	78.7	79.6
127.5°	376.9	363.1	328.9	268.5	203.7	144.7	102.6	85.5	84.7
130°	384.1	370.3	337.8	279.8	215.8	157.6	113.9	92.7	88.7
132.5°	390.6	377.6	345.8	288.8	227.9	169.7	126.0	101.5	96.0
135°	398.2	385.4	355.9	302.2	244.0	188.8	144.2	117.8	109.9
137.5°	405.1	393.3	365.2	314.2	260.9	205.9	162.5	136.9	128.2
140°	408.3	396.5	370.0	321.5	272.2	218.0	175.4	149.0	141.2
142.5°	411.6	400.5	374.9	328.8	281.9	230.0	188.3	161.9	154.1
145°	414.4	404.5	382.1	338.8	296.4	247.1	208.7	181.3	173.4
147.5°	417.4	407.0	386.8	347.4	308.3	264.0	227.1	200.7	193.0
150°	417.4	408.5	389.2	353.0	315.6	275.2	240.0	213.6	206.7
152.5°	418.2	408.5	391.6	357.9	323.6	285.6	252.1	226.5	220.4
155°	417.4	408.5	394.2	364.3	332.7	299.2	270.2	245.9	240.0
157.5°	413.8	408.1	394.2	368.0	342.0	311.2	285.9	266.8	258.5
160°	411.4	406.4	394.2	370.5	346.8	319.2	296.4	278.1	272.2
162.5°	408.9	404.0	393.4	373.0	351.7	326.4	305.3	287.8	283.5
165°	403.3	399.3	391.2	374.7	357.9	336.2	318.6	303.4	299.4
167.5°	397.0	394.3	387.6	375.8	362.6	345.6	330.3	318.5	314.0
170°	392.2	390.2	385.1	375.8	365.0	351.2	336.7	326.6	323.6
172.5°	385.7	384.6	381.9	374.3	366.6	355.2	344.0	334.7	331.7
175°	376.1	376.1	376.1	373.0	369.0	361.1	352.9	345.8	343.8
177.5°	368.4	369.2	370.0	369.2	369.2	365.3	361.1	357.1	357.9
180°	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0

(END OF REPORT)