

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P621670

Luminaire Tested: VLT-FA-0U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621670
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-21)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FA-0U-125D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

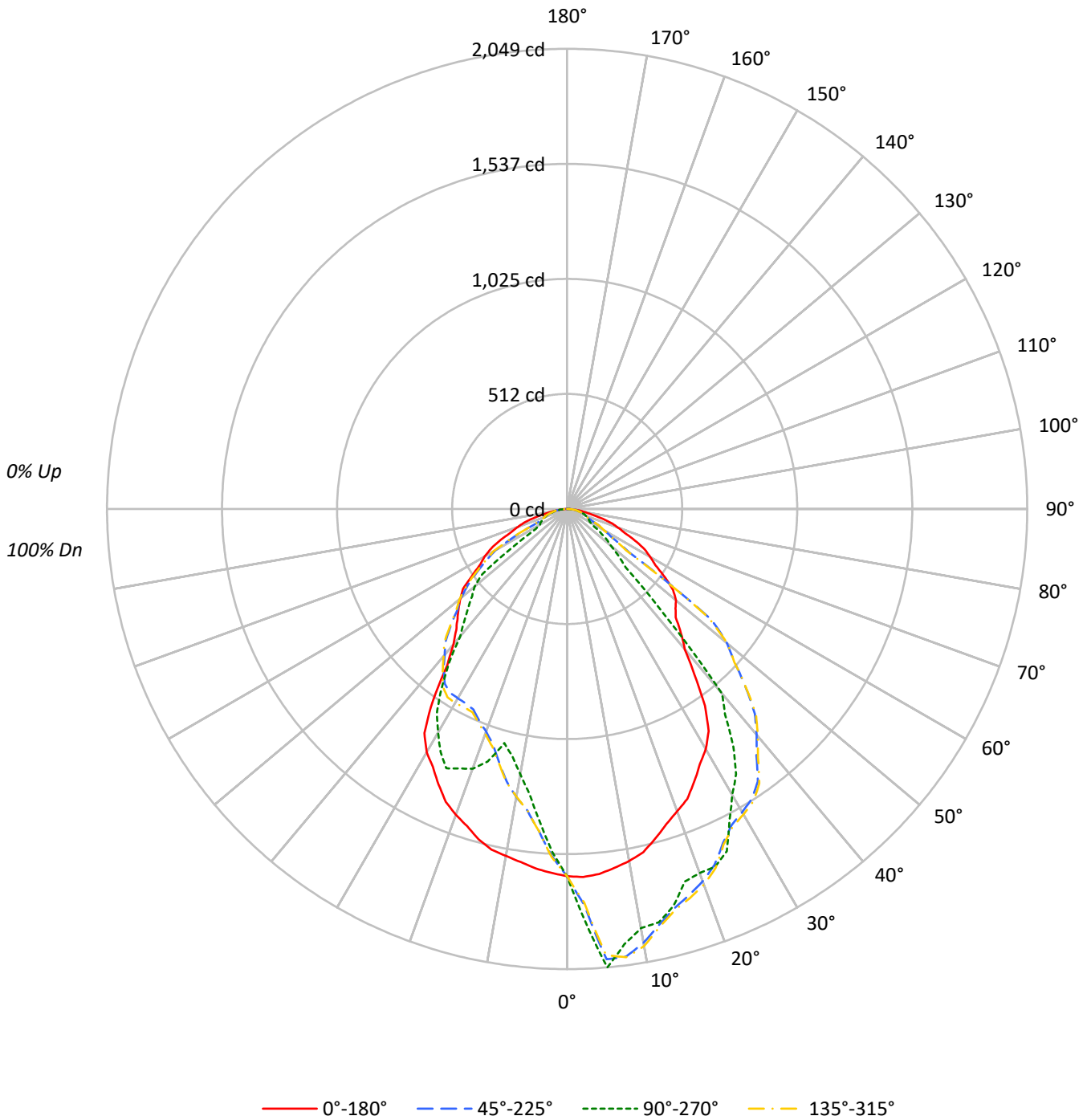
Lumens per Lamp: N/A
Luminaire Lumens: 3371.4 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (A_{in}): 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																		
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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100									100																			
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88									88																			
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76									76																			
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	66									66																			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58									58																			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	54	52									52																			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46									46																			
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41									41																			
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37									37																			
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34									34																			
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31									31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11733	11733	11733	11733
5°	11754	14760	11574	10064
10°	11598	13805	11429	8738
15°	11282	13592	11319	8020
20°	10936	13171	11063	9399
25°	10601	13315	10720	10088
30°	10226	12183	10364	9523
35°	9369	11292	9136	8539
40°	7635	10049	7369	6949
45°	6937	3731	7005	6330
50°	7056	2841	6926	6016
55°	6658	2206	6429	3599
60°	6135	1695	6087	2005
65°	5649	1751	5535	2117
70°	5025	1851	4886	2199
75°	4289	1938	4103	2260
80°	3232	1992	3025	2339
85°	2190	1778	1918	2190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12846 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	4.7
10°-20°	432.1	12.8
20°-30°	646.5	19.2
30°-40°	735.2	21.8
40°-50°	628.8	18.7
50°-60°	424.0	12.6
60°-70°	218.9	6.5
70°-80°	98.8	2.9
80°-90°	29.4	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1236.3	36.7
0°-40°	1971.5	58.5
0°-60°	3024.3	89.7
0°-90°	3371.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3371.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1635	1635	1635	1635	1635	
5°	1632	2049	1607	1397	1632	154
15°	1519	1830	1524	1080	1519	427
25°	1339	1682	1354	1274	1339	616
35°	1070	1289	1043	975	1070	654
45°	684	368	690	624	684	542
55°	532	176	514	288	532	474
65°	333	103	326	125	333	329
75°	155	70	148	82	155	165
85°	27	22	23	27	27	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1640.3	1696.3	1766.7	1815.1	1835.9	1815.1	1754.7	1695.8	1621.7	1599.6	1547.2
5°	1631.7	1804.1	2012.6	2037.8	2049.1	2037.8	1994.3	1793.7	1606.7	1527.0	1440.4
7.5°	1611.7	1913.2	2010.2	1954.0	1954.3	1964.7	2013.2	1903.9	1585.8	1460.5	1354.2
10°	1591.7	1973.9	1961.0	1879.8	1894.5	1888.0	1976.0	1962.0	1568.5	1423.7	1302.3
12.5°	1565.1	1992.9	1895.8	1869.2	1885.1	1876.0	1905.4	1982.5	1553.8	1397.4	1242.5
15°	1518.6	1965.8	1841.2	1829.6	1829.6	1837.7	1849.6	1974.0	1523.6	1349.5	1169.3
17.5°	1470.7	1911.7	1803.3	1745.6	1739.4	1750.2	1817.0	1925.6	1480.6	1296.5	1098.4
20°	1432.1	1874.4	1764.7	1697.2	1724.8	1700.4	1779.7	1884.6	1448.7	1263.3	1054.5
22.5°	1397.5	1828.1	1715.5	1686.7	1723.5	1687.4	1729.1	1838.2	1411.4	1226.0	1021.2
25°	1338.9	1750.4	1641.6	1668.6	1681.6	1668.6	1648.3	1757.2	1353.9	1178.3	986.3
27.5°	1280.7	1668.4	1586.4	1604.5	1564.8	1595.4	1595.4	1668.7	1294.7	1122.6	975.7
30°	1234.1	1611.4	1558.5	1532.1	1470.3	1519.1	1570.1	1611.8	1250.8	1086.5	973.0
32.5°	1172.9	1559.3	1530.5	1439.5	1399.8	1433.0	1543.5	1558.3	1182.9	1053.8	970.3
35°	1069.5	1485.8	1480.3	1329.7	1289.0	1319.9	1491.9	1482.0	1042.9	1002.2	949.7
37.5°	930.8	1420.3	1384.2	1218.7	1154.0	1210.6	1395.1	1413.2	877.2	954.9	901.5
40°	815.0	1376.1	1312.3	1136.2	1072.8	1128.1	1320.6	1372.2	786.7	921.7	848.3
42.5°	749.8	1336.9	1236.5	1048.9	656.3	1035.6	1244.8	1331.9	730.8	878.8	801.7
45°	683.6	1265.8	1126.0	580.6	367.6	553.0	1127.7	1248.1	690.3	813.9	730.2
47.5°	654.7	1178.3	1010.6	349.7	310.4	339.6	1009.6	1159.1	655.0	748.7	662.0
50°	632.0	1123.2	928.1	308.1	254.5	296.8	929.8	1105.0	620.4	705.0	615.4
52.5°	594.8	1057.3	809.7	255.3	219.9	249.2	790.1	1036.6	584.5	657.3	556.9
55°	532.2	930.7	337.6	200.7	176.3	192.6	321.0	899.4	513.9	582.3	489.0
57.5°	466.0	792.3	236.8	156.2	136.7	154.6	235.2	760.5	457.4	493.2	426.5
60°	427.5	699.1	192.9	131.1	118.1	129.5	191.3	671.3	424.1	433.9	369.2
62.5°	388.9	604.5	159.7	115.3	111.4	113.7	159.3	574.1	382.9	383.5	260.1
65°	332.7	457.9	118.1	104.7	103.1	103.1	114.8	441.5	326.0	316.2	149.7
67.5°	275.4	328.8	94.8	96.4	94.8	94.8	93.1	319.5	268.8	252.2	113.1
70°	239.5	252.5	88.2	89.8	88.2	88.2	86.5	245.9	232.9	195.5	106.4
72.5°	204.9	172.4	81.5	81.8	81.5	81.5	79.8	161.8	198.3	137.4	97.1
75°	154.7	86.4	69.9	69.9	69.9	69.9	68.2	83.0	148.0	89.5	83.2
77.5°	107.4	57.0	57.9	57.5	57.5	56.2	56.2	56.6	101.1	61.8	67.2
80°	78.2	47.3	49.9	48.2	48.2	48.2	48.2	45.5	73.2	52.0	56.6
82.5°	55.6	37.7	40.6	38.9	38.9	38.9	38.9	37.2	50.6	42.4	45.9
85°	26.6	25.0	26.6	23.2	21.6	23.2	24.9	24.9	23.3	28.2	29.9
87.5°	8.0	11.9	10.6	8.0	8.0	8.0	9.3	10.6	6.7	13.2	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1635.0	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1528.5	1527.2	1529.8	1552.5	1598.7	1640.3
5°	1392.3	1397.1	1402.0	1440.4	1521.1	1631.7
7.5°	1287.5	1280.4	1291.4	1353.9	1453.0	1611.7
10°	1215.5	1199.2	1215.5	1300.7	1416.1	1591.7
12.5°	1147.5	1127.4	1152.7	1246.1	1385.6	1565.1
15°	1059.9	1079.5	1068.1	1172.6	1339.7	1518.6
17.5°	1080.7	1178.9	1101.5	1108.7	1294.0	1470.7
20°	1130.0	1230.8	1162.5	1066.2	1264.6	1432.1
22.5°	1174.7	1250.8	1189.0	1030.2	1235.2	1397.5
25°	1209.0	1274.1	1205.8	998.0	1192.6	1338.9
27.5°	1210.7	1219.8	1211.4	995.3	1139.9	1280.7
30°	1188.3	1149.3	1185.1	998.0	1102.4	1234.1
32.5°	1124.4	1080.1	1110.7	992.6	1064.6	1172.9
35°	1033.2	974.7	1017.0	964.7	1006.1	1069.5
37.5°	937.1	862.9	921.4	909.5	956.1	930.8
40°	871.9	741.8	858.9	854.9	928.8	815.0
42.5°	788.5	677.9	776.8	811.0	898.8	749.8
45°	636.7	623.7	630.2	736.8	834.8	683.6
47.5°	582.3	573.5	579.0	669.3	762.6	654.7
50°	550.3	538.9	547.0	625.4	716.6	632.0
52.5°	505.9	475.0	502.7	565.5	668.9	594.8
55°	380.4	287.7	378.8	497.3	597.3	532.2
57.5°	223.2	166.3	218.4	432.8	506.1	466.0
60°	151.1	139.7	152.7	380.9	445.3	427.5
62.5°	138.0	134.4	138.3	265.1	391.1	388.9
65°	126.4	124.7	126.4	153.0	322.9	332.7
67.5°	114.4	112.8	115.7	117.4	254.9	275.4
70°	106.4	104.8	106.4	108.1	195.6	239.5
72.5°	97.1	95.5	97.1	98.8	137.6	204.9
75°	83.1	81.5	83.1	84.8	91.3	154.7
77.5°	67.2	67.2	68.8	68.9	63.9	107.4
80°	56.6	56.6	58.2	58.2	55.4	78.2
82.5°	45.9	44.6	47.5	48.9	45.8	55.6
85°	28.2	26.6	29.9	31.6	29.9	26.6
87.5°	10.6	9.3	11.9	14.6	14.5	8.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)