

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: P621575

Luminaire Tested: VLT-F-150U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621575
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-F-150U-125D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

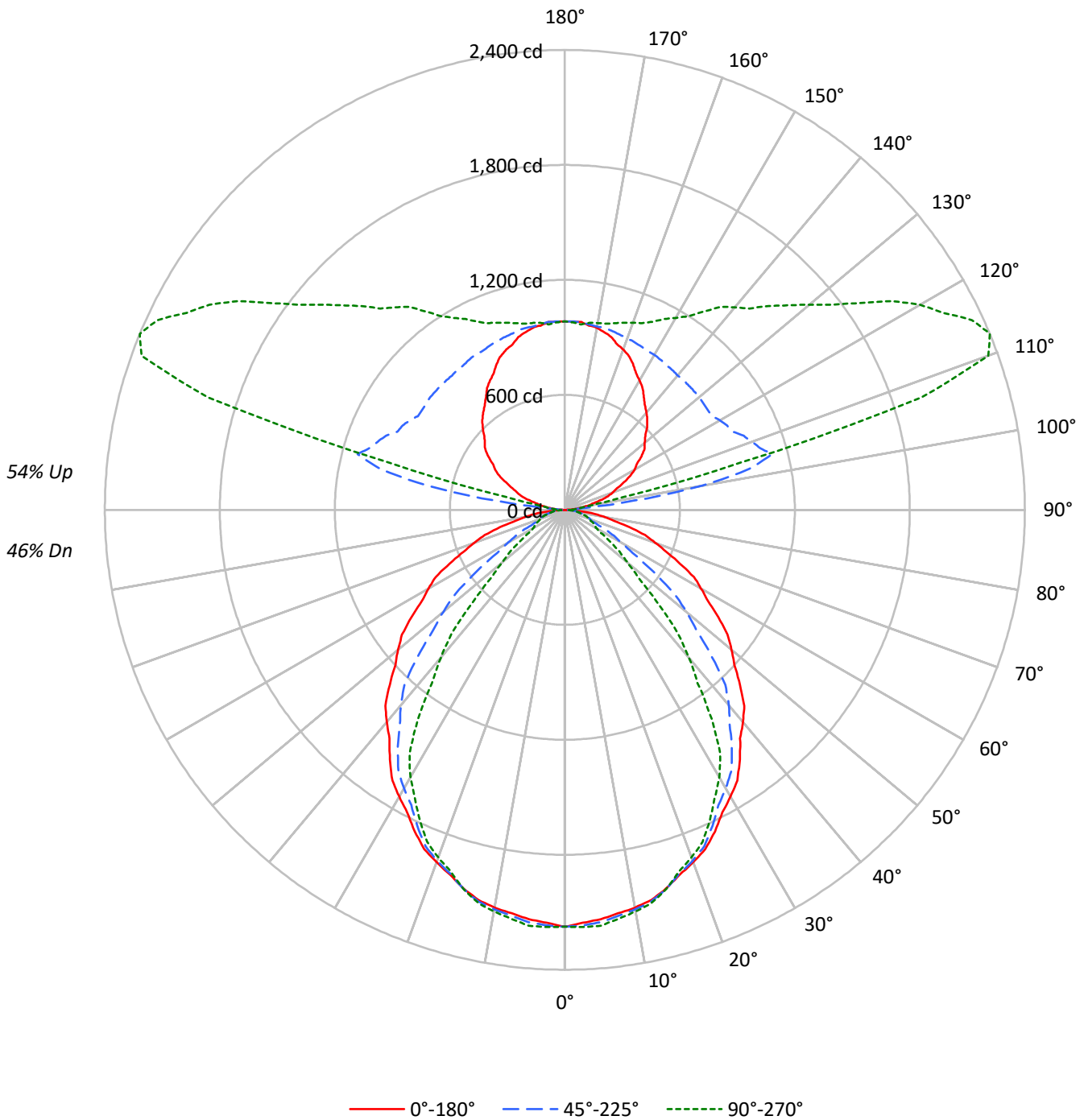
Lumens per Lamp: N/A
Luminaire Lumens: 9721.9 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.3
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



TEST NUMBER: P621575
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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	97	93	90	86	89	86	83	80	72	70	68	59	57	56	47	46	45	40
2	89	82	77	72	82	76	71	67	64	60	57	53	50	48	42	41	39	34
3	82	73	66	61	75	67	61	57	57	52	49	47	44	41	38	36	34	30
4	75	65	57	52	69	60	54	48	51	46	42	42	39	36	34	32	30	26
5	69	58	50	45	63	54	47	42	46	41	37	38	34	32	31	29	26	23
6	64	52	45	39	59	49	42	37	41	36	32	35	31	28	29	26	24	21
7	59	47	40	34	54	44	37	33	38	33	29	32	28	25	26	23	21	19
8	55	43	36	31	51	40	34	29	35	29	26	29	25	22	24	21	19	17
9	51	40	32	27	47	37	30	26	32	27	23	27	23	20	22	20	17	15
10	48	36	29	25	44	34	28	23	29	24	21	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15611	15611	15611
5°	15444	15557	15687
10°	15360	15426	15508
15°	15193	15210	15210
20°	14948	14880	14742
25°	14662	14414	14164
30°	14320	13911	13352
35°	13938	13309	11714
40°	13537	12463	9431
45°	13114	11038	6842
50°	12670	9232	4742
55°	12231	7029	3543
60°	11773	4871	2677
65°	11258	3472	2747
70°	10516	2923	2828
75°	9721	2992	2867
80°	8451	3157	2971
85°	6850	3516	2964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13114 cd/sqm



TEST NUMBER: P621575

CATALOG NUMBER: VLT-F-150U-125D-935-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	2.1
10°-20°	576.5	5.9
20°-30°	838.5	8.6
30°-40°	927.7	9.5
40°-50°	796.4	8.2
50°-60°	551.5	5.7
60°-70°	328.6	3.4
70°-80°	161.9	1.7
80°-90°	52.2	0.5
90°-100°	120.9	1.2
100°-110°	861.8	8.9
110°-120°	1169.9	12.0
120°-130°	952.2	9.8
130°-140°	765.8	7.9
140°-150°	603.8	6.2
150°-160°	441.5	4.5
160°-170°	274.2	2.8
170°-180°	93.5	1.0
0°-30°	1620.0	16.7
0°-40°	2547.6	26.2
0°-60°	3895.5	40.1
0°-90°	4438.3	45.7
90°-120°	2152.6	22.1
90°-150°	4474.4	46.0
90°-180°	5284.0	54.4
0°-180°	9721.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2175	2175	2175	2175	2175	
5°	2144	2177	2160	2158	2178	203
15°	2045	2072	2047	2036	2047	576
25°	1852	1865	1820	1789	1789	852
35°	1591	1587	1519	1396	1337	994
45°	1292	1270	1088	786	674	997
55°	978	936	562	323	283	874
65°	663	533	204	164	162	657
75°	351	153	108	106	103	370
85°	83	41	43	38	36	96
90°	0	6	12	19	19	6
95°	50	92	50	56	68	55
105°	192	295	1120	1430	946	202
115°	340	413	965	2006	2344	338
125°	489	555	909	1590	1881	434
135°	606	673	916	1310	1503	466
145°	718	778	922	1141	1262	451
155°	841	872	940	1034	1083	386
165°	934	946	965	990	1008	262
175°	984	990	984	977	971	93
180°	984	984	984	984	984	



TEST NUMBER: P621575

CATALOG NUMBER: VLT-F-150U-125D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2175.4	2175.4	2175.4	2175.4	2175.4
2.5°	2157.5	2182.1	2170.1	2170.3	2179.0
5°	2144.0	2176.9	2159.7	2157.9	2177.7
7.5°	2124.2	2154.5	2136.8	2134.5	2151.6
10°	2108.0	2136.6	2117.0	2112.9	2128.3
12.5°	2084.7	2113.2	2091.8	2084.1	2099.5
15°	2045.1	2071.5	2047.3	2036.4	2047.3
17.5°	1995.2	2017.2	1989.8	1972.4	1979.0
20°	1957.5	1979.4	1948.5	1923.9	1930.5
22.5°	1916.1	1934.6	1899.9	1871.7	1876.5
25°	1851.8	1865.0	1820.4	1788.9	1788.9
27.5°	1780.4	1788.3	1736.3	1703.3	1694.1
30°	1728.2	1732.6	1678.8	1639.9	1611.4
32.5°	1674.3	1676.9	1615.9	1553.3	1508.9
35°	1591.1	1586.7	1519.2	1396.5	1337.2
37.5°	1502.6	1492.9	1413.1	1226.4	1138.1
40°	1445.1	1431.9	1330.4	1105.7	1006.8
42.5°	1385.7	1367.3	1238.7	981.4	872.0
45°	1292.2	1270.3	1087.7	786.3	674.2
47.5°	1199.6	1170.6	933.1	609.1	512.8
50°	1134.9	1104.2	827.0	501.7	424.8
52.5°	1070.2	1039.4	719.2	421.1	360.0
55°	977.6	935.9	561.8	322.7	283.2
57.5°	883.2	823.4	418.5	251.5	220.7
60°	820.3	741.2	339.4	208.5	186.5
62.5°	759.2	659.0	278.2	181.9	177.5
65°	663.0	533.3	204.5	164.0	161.8
67.5°	571.3	406.9	151.9	147.8	145.6
70°	501.2	321.0	139.3	137.0	134.8
72.5°	438.2	245.7	126.8	124.5	122.3
75°	350.6	152.8	107.9	105.6	103.4
77.5°	262.0	96.4	89.0	86.7	84.5
80°	204.5	79.3	76.4	74.1	71.9
82.5°	154.2	64.1	62.0	59.7	57.5
85°	83.2	41.4	42.7	38.2	36.0
87.5°	28.8	21.2	22.3	19.9	18.1
90°	0.0	6.0	12.4	18.6	18.6
92.5°	14.8	20.9	27.2	38.5	43.3
95°	49.5	91.8	49.5	56.0	68.0
97.5°	87.8	176.2	363.7	107.3	92.8
100°	117.5	220.4	730.0	214.9	142.3
102.5°	147.2	254.9	987.3	567.0	310.5
105°	191.8	294.6	1119.7	1430.4	946.5
107.5°	236.3	313.7	1069.0	2081.7	1949.9
110°	266.0	338.6	1039.3	2187.4	2350.7



TEST NUMBER: P621575

CATALOG NUMBER: VLT-F-150U-125D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	295.7	368.3	1009.6	2125.6	2400.2
115°	340.2	412.8	965.0	2005.8	2344.5
117.5°	386.0	457.4	953.9	1876.1	2224.5
120°	420.7	487.2	934.1	1777.5	2140.4
122.5°	445.4	516.8	909.4	1692.7	2026.6
125°	488.7	555.2	909.4	1590.2	1880.6
127.5°	524.6	592.3	910.6	1471.4	1758.1
130°	544.4	617.0	915.5	1391.9	1664.1
132.5°	569.1	641.7	915.5	1356.1	1579.9
135°	606.2	672.8	915.5	1309.7	1503.2
137.5°	637.2	708.5	915.5	1258.3	1424.0
140°	661.9	728.5	915.5	1228.3	1379.5
142.5°	686.7	748.4	920.5	1193.4	1335.0
145°	717.6	778.1	921.7	1141.0	1262.0
147.5°	754.7	807.9	929.2	1103.2	1196.4
150°	779.5	827.8	934.1	1078.2	1156.8
152.5°	804.2	847.7	934.1	1058.0	1122.2
155°	841.3	871.6	940.3	1034.2	1082.6
157.5°	871.0	900.0	947.7	1019.0	1054.1
160°	890.8	915.0	952.7	1009.0	1039.3
162.5°	905.7	929.8	957.6	1003.9	1024.4
165°	934.1	946.2	965.0	990.2	1008.3
167.5°	950.2	961.1	971.2	983.8	994.7
170°	965.0	971.1	971.2	983.7	989.8
172.5°	970.0	980.9	976.2	978.8	984.8
175°	983.6	989.6	983.6	977.3	971.2
177.5°	983.6	988.4	983.6	983.5	978.6
180°	983.6	983.6	983.6	983.6	983.6



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.75	17.53	17.75	18.53	19.87	8.98	9.76	9.98	10.77	12.10
	3H	18.23	18.93	19.25	19.95	21.30	10.33	11.02	11.34	12.04	13.40
	4H	18.74	19.40	19.77	20.42	21.79	10.98	11.64	12.00	12.66	14.02
	6H	19.14	19.74	20.17	20.77	22.14	11.56	12.17	12.60	13.19	14.57
	8H	19.27	19.84	20.31	20.88	22.25	11.79	12.36	12.83	13.40	14.77
	12H	19.34	19.89	20.39	20.92	22.32	11.95	12.50	13.00	13.53	14.93
4H	2H	16.57	17.22	17.60	18.24	19.61	9.59	10.25	10.62	11.26	12.63
	3H	18.20	18.74	19.24	19.79	21.17	11.13	11.68	12.17	12.73	14.10
	4H	18.78	19.28	19.83	20.32	21.72	11.92	12.42	12.97	13.46	14.86
	6H	19.27	19.70	20.33	20.76	22.16	12.66	13.09	13.72	14.15	15.55
	8H	19.46	19.86	20.52	20.91	22.32	12.95	13.35	14.01	14.41	15.82
	12H	19.58	19.94	20.66	21.01	22.43	13.16	13.53	14.24	14.59	16.01
8H	4H	18.69	19.09	19.75	20.15	21.56	12.37	12.77	13.43	13.83	15.24
	6H	19.23	19.56	20.31	20.65	22.06	13.25	13.58	14.33	14.68	16.09
	8H	19.46	19.75	20.55	20.83	22.26	13.65	13.94	14.74	15.02	16.45
	12H	19.65	19.90	20.74	20.98	22.45	13.97	14.22	15.06	15.30	16.76
12H	4H	18.64	19.00	19.72	20.07	21.49	12.42	12.78	13.49	13.85	15.26
	6H	19.20	19.49	20.29	20.57	22.00	13.37	13.66	14.45	14.74	16.17
	8H	19.44	19.69	20.53	20.77	22.24	13.81	14.06	14.90	15.14	16.61