

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: P621887

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

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621887  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/2/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: VLT-FB-125U-125D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

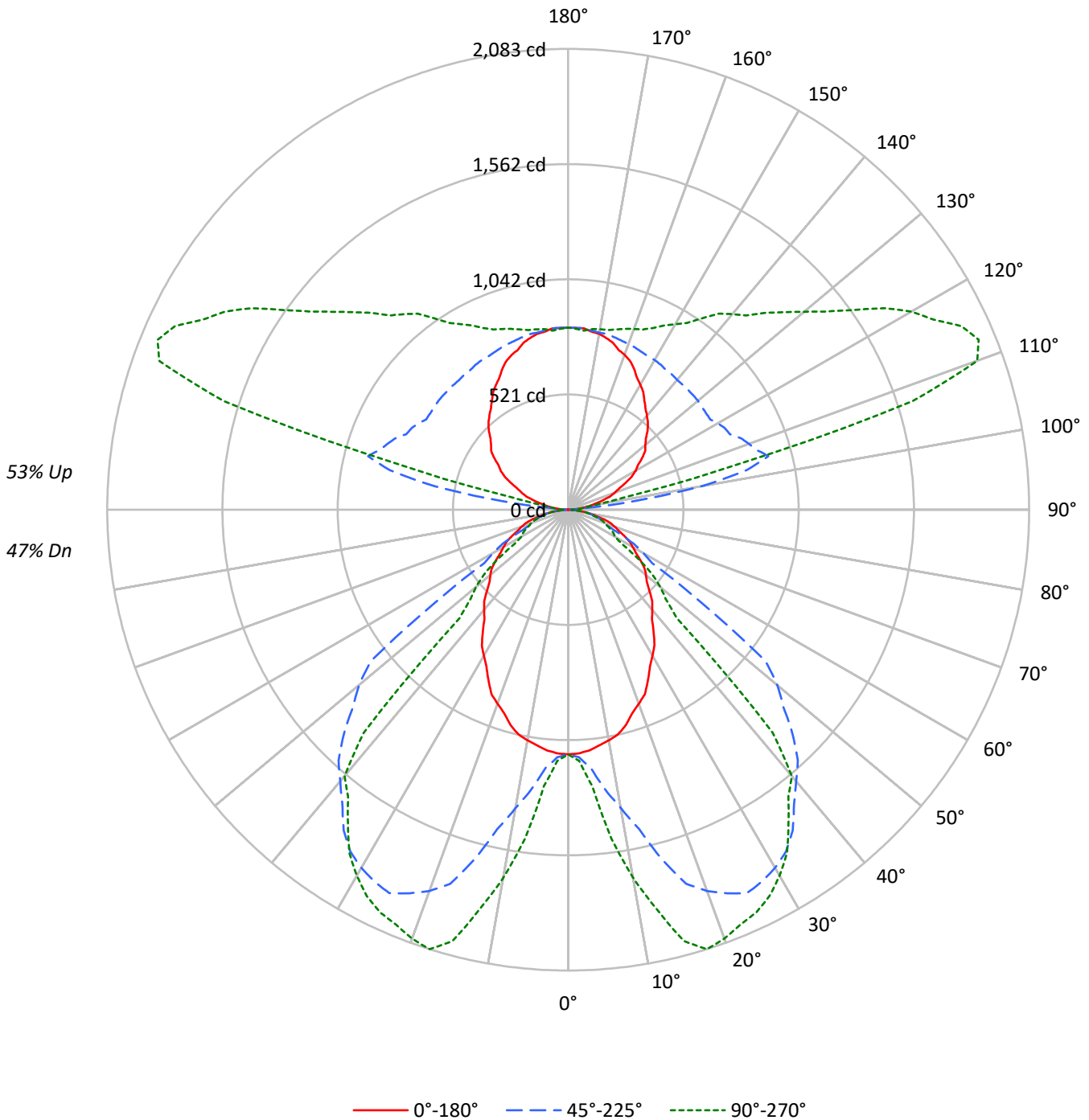
Lumens per Lamp: N/A  
Luminaire Lumens: 8383.7 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	98	94	90	87	90	86	83	80	73	70	68	60	58	57	48	47	46				41	
2	89	82	77	72	82	76	71	67	64	61	57	53	51	49	43	41	40				35	
3	82	73	66	60	75	67	61	57	57	53	49	48	44	42	39	37	35				31	
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30				27	
5	69	58	50	44	63	54	47	42	46	41	37	39	35	32	32	29	27				23	
6	64	52	44	39	59	48	41	36	41	36	32	35	31	28	29	26	24				21	
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21				18	
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19				16	
9	51	39	32	27	47	36	30	25	31	26	22	27	23	20	22	19	17				15	
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	15				13	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7934	7934	7934
5°	7868	8434	9033
10°	7713	9973	12314
15°	7480	12155	14993
20°	7123	14004	15755
25°	6744	15143	15908
30°	6313	15493	15829
35°	5887	15494	15199
40°	5537	15011	14715
45°	5268	14551	7047
50°	5119	13774	6072
55°	4977	9222	4808
60°	4838	5612	3483
65°	4732	4274	3625
70°	4668	3724	3724
75°	4550	3862	3737
80°	3992	3901	3715
85°	2964	4067	3516

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 14551 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	1.4
10°-20°	439.6	5.2
20°-30°	744.6	8.9
30°-40°	903.3	10.8
40°-50°	795.1	9.5
50°-60°	492.0	5.9
60°-70°	266.7	3.2
70°-80°	152.0	1.8
80°-90°	51.5	0.6
90°-100°	101.2	1.2
100°-110°	720.8	8.6
110°-120°	978.6	11.7
120°-130°	796.5	9.5
130°-140°	640.6	7.6
140°-150°	505.0	6.0
150°-160°	369.3	4.4
160°-170°	229.4	2.7
170°-180°	78.2	0.9
0°-30°	1303.5	15.5
0°-40°	2206.9	26.3
0°-60°	3494.0	41.7
0°-90°	3964.2	47.3
90°-120°	1800.6	21.5
90°-150°	3742.6	44.6
90°-180°	4419.0	52.7
0°-180°	8383.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1092	1127	1171	1221	1254	103
15°	1007	1161	1636	1935	2018	282
25°	852	1166	1912	1970	2009	391
35°	672	1081	1769	1744	1735	421
45°	519	888	1434	1215	694	403
55°	398	620	737	426	384	356
65°	279	349	252	216	214	277
75°	164	144	139	137	135	171
85°	36	49	49	45	43	44
90°	0	5	10	16	16	3
95°	41	77	41	47	57	46
105°	160	246	937	1196	792	169
115°	285	345	807	1678	1961	283
125°	409	464	761	1330	1573	363
135°	507	563	766	1096	1257	390
145°	600	651	771	954	1056	377
155°	704	729	786	865	906	323
165°	781	792	807	828	843	219
175°	823	828	823	817	812	78
180°	823	823	823	823	823	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1105.7	1105.7	1105.7	1105.7	1105.7
2.5°	1102.1	1114.4	1120.1	1131.0	1136.3
5°	1092.2	1127.4	1170.9	1221.1	1254.0
7.5°	1074.7	1137.5	1275.1	1433.6	1501.2
10°	1058.5	1144.2	1368.6	1597.7	1690.0
12.5°	1040.5	1150.8	1478.3	1756.0	1850.0
15°	1006.8	1160.6	1636.1	1934.6	2018.1
17.5°	963.2	1166.7	1772.7	2029.2	2082.8
20°	932.7	1167.8	1833.8	2041.1	2063.1
22.5°	903.9	1168.9	1877.0	2012.3	2030.7
25°	851.7	1166.0	1912.5	1969.6	2009.1
27.5°	799.6	1153.0	1895.0	1941.0	1969.6
30°	761.9	1139.8	1869.8	1908.1	1910.3
32.5°	725.9	1117.9	1832.0	1843.2	1840.1
35°	672.0	1080.7	1768.7	1743.7	1735.0
37.5°	621.6	1031.2	1676.1	1636.0	1633.8
40°	591.1	995.4	1602.4	1564.3	1570.9
42.5°	562.3	954.3	1535.8	1491.2	1367.7
45°	519.1	888.3	1433.8	1215.2	694.4
47.5°	481.8	813.2	1318.3	651.0	597.8
50°	458.5	761.7	1233.8	572.4	543.9
52.5°	435.1	713.7	1124.1	514.7	477.3
55°	397.8	619.7	737.1	426.0	384.3
57.5°	362.3	520.9	450.4	331.1	285.9
60°	337.1	462.4	391.0	266.9	242.7
62.5°	313.7	414.4	333.5	236.8	231.9
65°	278.7	349.0	251.7	215.7	213.5
67.5°	245.9	286.7	191.9	194.1	191.9
70°	222.5	242.3	177.5	179.7	177.5
72.5°	200.9	199.6	163.2	161.8	159.6
75°	164.1	144.3	139.3	137.0	134.8
77.5°	125.4	106.5	112.4	110.1	107.9
80°	96.6	90.0	94.4	92.1	89.9
82.5°	71.5	73.7	76.4	72.3	70.1
85°	36.0	49.1	49.4	44.9	42.7
87.5°	10.8	22.3	21.8	19.2	17.5
90°	0.0	5.1	10.3	15.5	15.5
92.5°	12.4	17.5	22.8	32.2	36.2
95°	41.4	76.8	41.4	46.8	56.9
97.5°	73.5	147.3	304.3	89.8	77.6
100°	98.3	184.3	610.6	179.7	119.0
102.5°	123.2	213.2	825.8	474.3	259.8
105°	160.4	246.4	936.6	1196.4	791.7
107.5°	197.7	262.4	894.1	1741.3	1631.0
110°	222.5	283.2	869.3	1829.7	1966.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	247.3	308.0	844.5	1778.0	2007.7
115°	284.6	345.3	807.2	1677.8	1961.1
117.5°	322.9	382.6	797.9	1569.3	1860.7
120°	351.9	407.5	781.3	1486.8	1790.3
122.5°	372.6	432.3	760.6	1415.9	1695.1
125°	408.8	464.4	760.6	1330.2	1573.0
127.5°	438.8	495.5	761.7	1230.8	1470.6
130°	455.3	516.1	765.8	1164.2	1391.9
132.5°	476.0	536.8	765.8	1134.3	1321.5
135°	507.1	562.7	765.8	1095.5	1257.4
137.5°	533.0	592.7	765.8	1052.5	1191.1
140°	553.7	609.3	765.8	1027.4	1153.9
142.5°	574.4	626.0	770.0	998.2	1116.6
145°	600.2	650.8	771.0	954.4	1055.6
147.5°	631.3	675.8	777.2	922.8	1000.7
150°	652.0	692.5	781.3	901.8	967.6
152.5°	672.7	709.1	781.3	885.0	938.6
155°	703.7	729.0	786.5	865.0	905.5
157.5°	728.6	752.8	792.7	852.4	881.7
160°	745.1	765.4	796.9	844.0	869.3
162.5°	757.5	777.8	801.0	839.7	856.9
165°	781.3	791.5	807.2	828.3	843.4
167.5°	794.8	803.9	812.4	822.9	832.0
170°	807.2	812.3	812.4	822.8	827.9
172.5°	811.3	820.5	816.5	818.7	823.8
175°	822.7	827.8	822.7	817.4	812.4
177.5°	822.7	826.8	822.7	822.6	818.6
180°	822.7	822.7	822.7	822.7	822.7

(END OF REPORT)