

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: P621907

Luminaire Tested: VLT-FB-150U-125D-830-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621907  
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-150U-125D-830-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

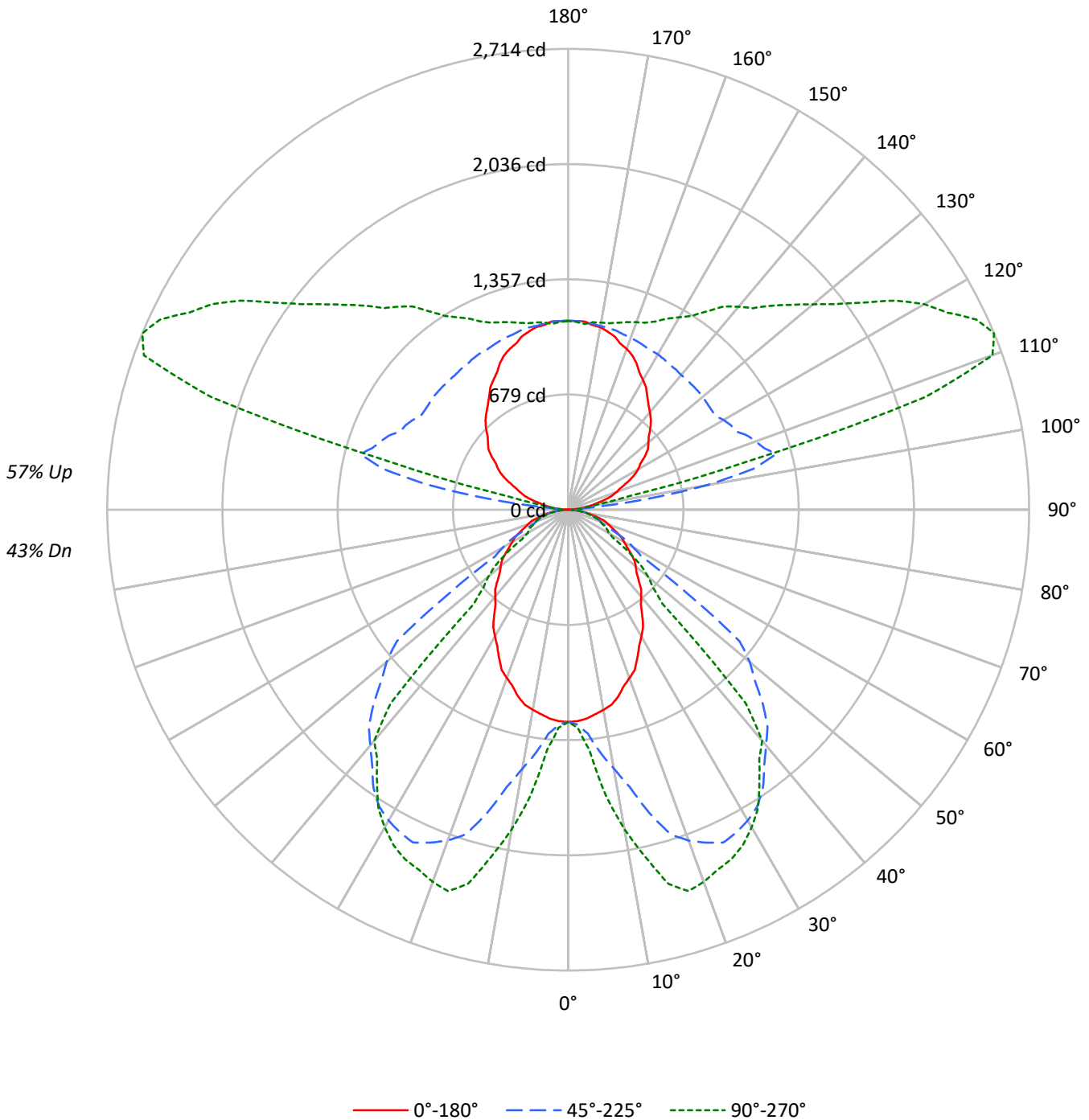
Lumens per Lamp: N/A  
Luminaire Lumens: 10456.4 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 87.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P621907  
CATALOG NUMBER: VLT-FB-150U-125D-830-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P621907

CATALOG NUMBER: VLT-FB-150U-125D-830-UNV-STD-W-4

**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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	45	44	43	37
2	88	81	76	71	81	75	70	66	62	59	56	51	48	46	40	38	37	32
3	81	72	65	60	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	64	56	51	68	59	52	47	49	45	41	40	37	34	32	30	28	24
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	27	25	21
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	27	24	22	19
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	21	19	17
8	54	42	35	29	49	39	32	28	33	28	24	27	24	21	22	19	17	15
9	50	38	31	26	46	36	29	25	30	25	22	25	21	19	21	18	16	13
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14	12

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

	0°	45°	90°
0°	8971	8971	8971
5°	8895	9536	10214
10°	8721	11275	13923
15°	8457	13742	16952
20°	8053	15833	17813
25°	7625	17121	17986
30°	7138	17518	17896
35°	6655	17518	17184
40°	6260	16971	16638
45°	5957	16451	7968
50°	5787	15573	6865
55°	5626	10427	5436
60°	5470	6345	3938
65°	5350	4832	4099
70°	5279	4211	4211
75°	5143	4367	4228
80°	4517	4409	4199
85°	3351	4603	3977

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 16451 cd/sqm



TEST NUMBER: P621907

CATALOG NUMBER: VLT-FB-150U-125D-830-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.8	1.3
10°-20°	497.1	4.8
20°-30°	841.9	8.1
30°-40°	1021.3	9.8
40°-50°	899.0	8.6
50°-60°	556.3	5.3
60°-70°	301.6	2.9
70°-80°	171.8	1.6
80°-90°	58.7	0.6
90°-100°	136.7	1.3
100°-110°	974.3	9.3
110°-120°	1322.8	12.7
120°-130°	1076.6	10.3
130°-140°	865.9	8.3
140°-150°	682.6	6.5
150°-160°	499.1	4.8
160°-170°	310.0	3.0
170°-180°	105.7	1.0
0°-30°	1473.8	14.1
0°-40°	2495.2	23.9
0°-60°	3950.4	37.8
0°-90°	4482.6	42.9
90°-120°	2433.8	23.3
90°-150°	5059.0	48.4
90°-180°	5974.0	57.1
0°-180°	10456.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1235	1275	1324	1381	1418	117
15°	1138	1312	1850	2187	2282	319
25°	963	1318	2162	2227	2272	442
35°	760	1222	2000	1972	1962	476
45°	587	1004	1621	1374	785	455
55°	450	701	833	482	434	403
65°	315	395	285	244	241	313
75°	186	163	158	155	152	194
85°	41	56	56	51	48	50
90°	0	7	14	21	21	4
95°	56	104	56	63	77	63
105°	217	333	1266	1617	1070	229
115°	385	467	1091	2268	2651	382
125°	553	628	1028	1798	2126	491
135°	685	761	1035	1481	1700	527
145°	811	880	1042	1290	1427	510
155°	951	985	1063	1169	1224	437
165°	1056	1070	1091	1120	1140	297
175°	1112	1119	1112	1105	1098	105
180°	1112	1112	1112	1112	1112	



TEST NUMBER: P621907

CATALOG NUMBER: VLT-FB-150U-125D-830-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1250.2	1250.2	1250.2	1250.2	1250.2
2.5°	1246.1	1260.0	1266.4	1278.7	1284.7
5°	1234.9	1274.7	1323.8	1380.6	1417.9
7.5°	1215.1	1286.1	1441.7	1620.8	1697.4
10°	1196.8	1293.7	1547.4	1806.5	1910.8
12.5°	1176.5	1301.2	1671.4	1985.4	2091.7
15°	1138.3	1312.3	1849.8	2187.4	2281.8
17.5°	1089.1	1319.1	2004.3	2294.3	2355.0
20°	1054.5	1320.3	2073.4	2307.8	2332.6
22.5°	1022.0	1321.6	2122.2	2275.1	2296.0
25°	963.0	1318.3	2162.4	2226.9	2271.6
27.5°	904.1	1303.6	2142.5	2194.6	2226.9
30°	861.4	1288.7	2114.1	2157.3	2159.8
32.5°	820.7	1264.0	2071.4	2084.0	2080.5
35°	759.7	1221.9	1999.7	1971.6	1961.6
37.5°	702.8	1165.9	1895.0	1849.8	1847.3
40°	668.3	1125.4	1811.7	1768.7	1776.1
42.5°	635.7	1079.0	1736.5	1686.1	1546.4
45°	587.0	1004.4	1621.1	1374.0	785.2
47.5°	544.8	919.4	1490.5	736.0	675.9
50°	518.4	861.2	1395.0	647.2	614.9
52.5°	491.9	807.0	1271.0	581.9	539.7
55°	449.7	700.7	833.4	481.7	434.5
57.5°	409.6	589.0	509.2	374.4	323.2
60°	381.1	522.8	442.1	301.8	274.4
62.5°	354.7	468.5	377.1	267.7	262.2
65°	315.1	394.6	284.6	243.9	241.4
67.5°	278.0	324.2	217.0	219.5	217.0
70°	251.6	273.9	200.7	203.2	200.7
72.5°	227.2	225.7	184.5	182.9	180.4
75°	185.5	163.1	157.5	154.9	152.5
77.5°	141.8	120.4	127.0	124.5	122.0
80°	109.3	101.8	106.7	104.1	101.6
82.5°	80.8	83.3	86.4	81.8	79.3
85°	40.7	55.6	55.9	50.8	48.3
87.5°	12.2	25.5	25.2	22.4	20.5
90°	0.0	6.8	14.0	21.0	21.0
92.5°	16.8	23.6	30.8	43.5	49.0
95°	56.0	103.8	56.0	63.3	76.9
97.5°	99.3	199.2	411.3	121.3	104.9
100°	132.9	249.2	825.3	242.9	160.9
102.5°	166.5	288.2	1116.3	641.1	351.1
105°	216.8	333.1	1266.0	1617.2	1070.1
107.5°	267.2	354.7	1208.6	2353.7	2204.6
110°	300.8	382.8	1175.0	2473.2	2657.8



TEST NUMBER: P621907

CATALOG NUMBER: VLT-FB-150U-125D-830-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	334.3	416.4	1141.5	2403.3	2713.8
115°	384.7	466.8	1091.1	2267.9	2650.8
117.5°	436.4	517.1	1078.5	2121.2	2515.2
120°	475.6	550.8	1056.1	2009.7	2420.0
122.5°	503.6	584.3	1028.2	1913.8	2291.3
125°	552.6	627.8	1028.2	1798.0	2126.3
127.5°	593.1	669.7	1029.6	1663.6	1987.8
130°	615.5	697.6	1035.2	1573.7	1881.5
132.5°	643.5	725.5	1035.2	1533.3	1786.3
135°	685.4	760.7	1035.2	1480.8	1699.6
137.5°	720.4	801.1	1035.2	1422.7	1610.1
140°	748.4	823.6	1035.2	1388.8	1559.7
142.5°	776.4	846.1	1040.8	1349.3	1509.4
145°	811.3	879.7	1042.2	1290.1	1426.8
147.5°	853.3	913.5	1050.5	1247.4	1352.7
150°	881.3	936.0	1056.1	1219.0	1307.9
152.5°	909.3	958.5	1056.1	1196.3	1268.8
155°	951.2	985.4	1063.1	1169.3	1224.0
157.5°	984.8	1017.6	1071.5	1152.2	1191.8
160°	1007.2	1034.5	1077.1	1140.8	1175.0
162.5°	1024.0	1051.3	1082.7	1135.0	1158.3
165°	1056.1	1069.8	1091.1	1119.6	1140.1
167.5°	1074.3	1086.6	1098.1	1112.4	1124.7
170°	1091.1	1098.0	1098.1	1112.3	1119.1
172.5°	1096.7	1109.0	1103.7	1106.7	1113.5
175°	1112.1	1118.9	1112.1	1104.9	1098.1
177.5°	1112.1	1117.6	1112.1	1112.0	1106.5
180°	1112.1	1112.1	1112.1	1112.1	1112.1

(END OF REPORT)