

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: P621912

Luminaire Tested: VLT-FB-150U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621912
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-940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

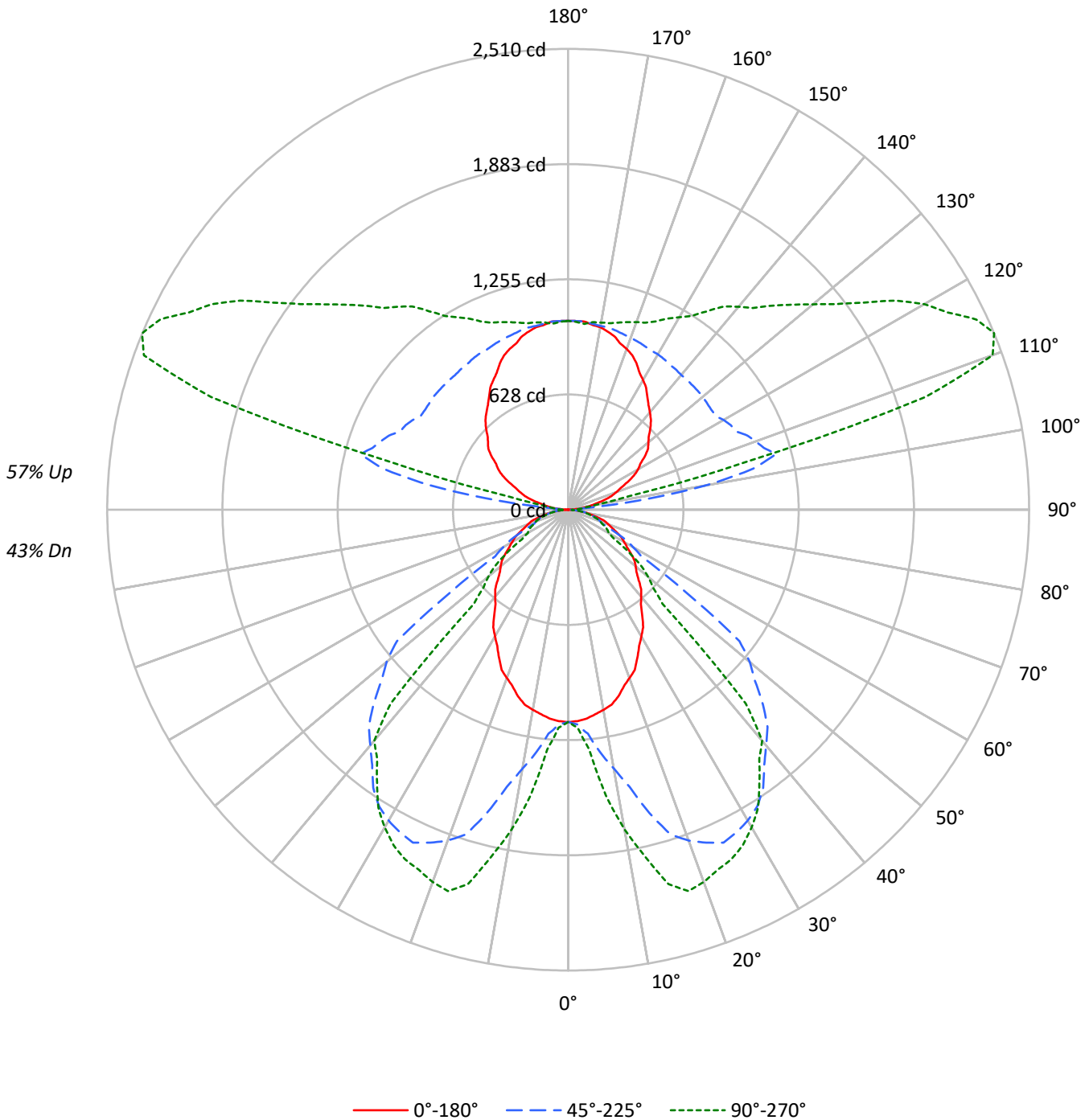
Lumens per Lamp: N/A
Luminaire Lumens: 9672.2 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.3
Input Voltage (V): 120
Input Current (A_{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					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	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°	8298	8298	8298
5°	8228	8821	9447
10°	8066	10430	12879
15°	7823	12712	15681
20°	7449	14646	16477
25°	7053	15837	16638
30°	6602	16203	16554
35°	6157	16205	15895
40°	5791	15698	15390
45°	5510	15218	7371
50°	5353	14406	6350
55°	5205	9645	5028
60°	5060	5870	3643
65°	4948	4469	3792
70°	4882	3896	3896
75°	4758	4040	3909
80°	4178	4079	3885
85°	3096	4257	3680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15218 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.3
10°-20°	459.8	4.8
20°-30°	778.8	8.1
30°-40°	944.7	9.8
40°-50°	831.6	8.6
50°-60°	514.6	5.3
60°-70°	279.0	2.9
70°-80°	158.9	1.6
80°-90°	54.3	0.6
90°-100°	126.5	1.3
100°-110°	901.3	9.3
110°-120°	1223.6	12.7
120°-130°	995.9	10.3
130°-140°	800.9	8.3
140°-150°	631.5	6.5
150°-160°	461.7	4.8
160°-170°	286.8	3.0
170°-180°	97.8	1.0
0°-30°	1363.3	14.1
0°-40°	2308.0	23.9
0°-60°	3654.2	37.8
0°-90°	4146.4	42.9
90°-120°	2251.3	23.3
90°-150°	4679.6	48.4
90°-180°	5526.0	57.1
0°-180°	9672.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1142	1179	1225	1277	1312	108
15°	1053	1214	1711	2023	2111	295
25°	891	1219	2000	2060	2101	409
35°	703	1130	1850	1824	1814	440
45°	543	929	1500	1271	726	421
55°	416	648	771	446	402	372
65°	291	365	263	226	223	289
75°	172	151	146	143	141	179
85°	38	51	52	47	45	46
90°	0	6	13	19	19	4
95°	52	96	52	58	71	58
105°	201	308	1171	1496	990	212
115°	356	432	1009	2098	2452	353
125°	511	581	951	1663	1967	454
135°	634	704	958	1370	1572	488
145°	750	814	964	1193	1320	471
155°	880	912	983	1082	1132	404
165°	977	990	1009	1036	1055	274
175°	1029	1035	1029	1022	1016	97
180°	1029	1029	1029	1029	1029	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.4	1156.4	1156.4	1156.4	1156.4
2.5°	1152.6	1165.5	1171.4	1182.8	1188.4
5°	1142.3	1179.1	1224.6	1277.0	1311.5
7.5°	1124.0	1189.7	1333.6	1499.3	1570.1
10°	1107.0	1196.7	1431.4	1671.0	1767.5
12.5°	1088.2	1203.6	1546.1	1836.5	1934.8
15°	1053.0	1213.8	1711.1	2023.3	2110.7
17.5°	1007.4	1220.2	1854.0	2122.3	2178.3
20°	975.4	1221.3	1917.9	2134.7	2157.7
22.5°	945.3	1222.5	1963.1	2104.5	2123.8
25°	890.8	1219.4	2000.2	2059.9	2101.3
27.5°	836.3	1205.8	1981.9	2030.0	2059.9
30°	796.8	1192.1	1955.5	1995.5	1997.8
32.5°	759.2	1169.2	1916.0	1927.7	1924.5
35°	702.8	1130.2	1849.8	1823.7	1814.5
37.5°	650.1	1078.5	1752.9	1711.0	1708.7
40°	618.2	1041.0	1675.8	1636.0	1642.9
42.5°	588.1	998.1	1606.3	1559.6	1430.5
45°	542.9	929.0	1499.6	1270.9	726.3
47.5°	503.9	850.5	1378.7	680.8	625.2
50°	479.5	796.6	1290.4	598.7	568.8
52.5°	455.0	746.4	1175.7	538.3	499.2
55°	416.0	648.1	770.9	445.6	401.9
57.5°	378.9	544.8	471.0	346.3	299.0
60°	352.6	483.6	409.0	279.1	253.8
62.5°	328.1	433.4	348.8	247.6	242.6
65°	291.4	365.0	263.2	225.6	223.3
67.5°	257.1	299.9	200.7	203.0	200.7
70°	232.7	253.4	185.7	188.0	185.7
72.5°	210.1	208.7	170.6	169.2	166.9
75°	171.6	150.9	145.7	143.3	141.0
77.5°	131.2	111.4	117.5	115.1	112.8
80°	101.1	94.2	98.7	96.3	94.0
82.5°	74.7	77.0	79.9	75.6	73.3
85°	37.6	51.4	51.7	47.0	44.7
87.5°	11.3	23.6	23.3	20.8	18.9
90°	0.0	6.3	12.9	19.4	19.4
92.5°	15.5	21.9	28.5	40.2	45.3
95°	51.8	96.0	51.8	58.5	71.2
97.5°	91.9	184.2	380.4	112.2	97.0
100°	122.9	230.5	763.4	224.7	148.8
102.5°	154.0	266.6	1032.6	593.0	324.8
105°	200.6	308.1	1171.0	1496.0	989.9
107.5°	247.1	328.1	1118.0	2177.2	2039.3
110°	278.2	354.1	1086.9	2287.7	2458.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	309.3	385.2	1055.9	2223.1	2510.3
115°	355.8	431.7	1009.3	2097.8	2452.0
117.5°	403.7	478.4	997.6	1962.2	2326.5
120°	439.9	509.5	976.9	1859.0	2238.5
122.5°	465.8	540.5	951.1	1770.3	2119.5
125°	511.1	580.7	951.1	1663.2	1966.8
127.5°	548.6	619.5	952.3	1538.9	1838.7
130°	569.3	645.3	957.5	1455.7	1740.4
132.5°	595.2	671.1	957.5	1418.3	1652.4
135°	634.0	703.6	957.5	1369.7	1572.2
137.5°	666.4	741.0	957.5	1316.0	1489.3
140°	692.3	761.9	957.5	1284.6	1442.8
142.5°	718.1	782.7	962.7	1248.1	1396.2
145°	750.5	813.8	964.0	1193.3	1319.8
147.5°	789.3	845.0	971.8	1153.8	1251.3
150°	815.2	865.8	976.9	1127.6	1209.8
152.5°	841.1	886.6	976.9	1106.6	1173.6
155°	879.9	911.5	983.4	1081.6	1132.2
157.5°	910.9	941.3	991.2	1065.8	1102.4
160°	931.6	957.0	996.3	1055.3	1086.9
162.5°	947.2	972.5	1001.5	1049.9	1071.4
165°	976.9	989.6	1009.3	1035.6	1054.6
167.5°	993.8	1005.1	1015.8	1029.0	1040.3
170°	1009.3	1015.6	1015.8	1028.8	1035.2
172.5°	1014.5	1025.8	1020.9	1023.7	1030.0
175°	1028.7	1035.0	1028.7	1022.1	1015.8
177.5°	1028.7	1033.8	1028.7	1028.6	1023.5
180°	1028.7	1028.7	1028.7	1028.7	1028.7

(END OF REPORT)