

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: P621910

Luminaire Tested: VLT-FB-150U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621910
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-930-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

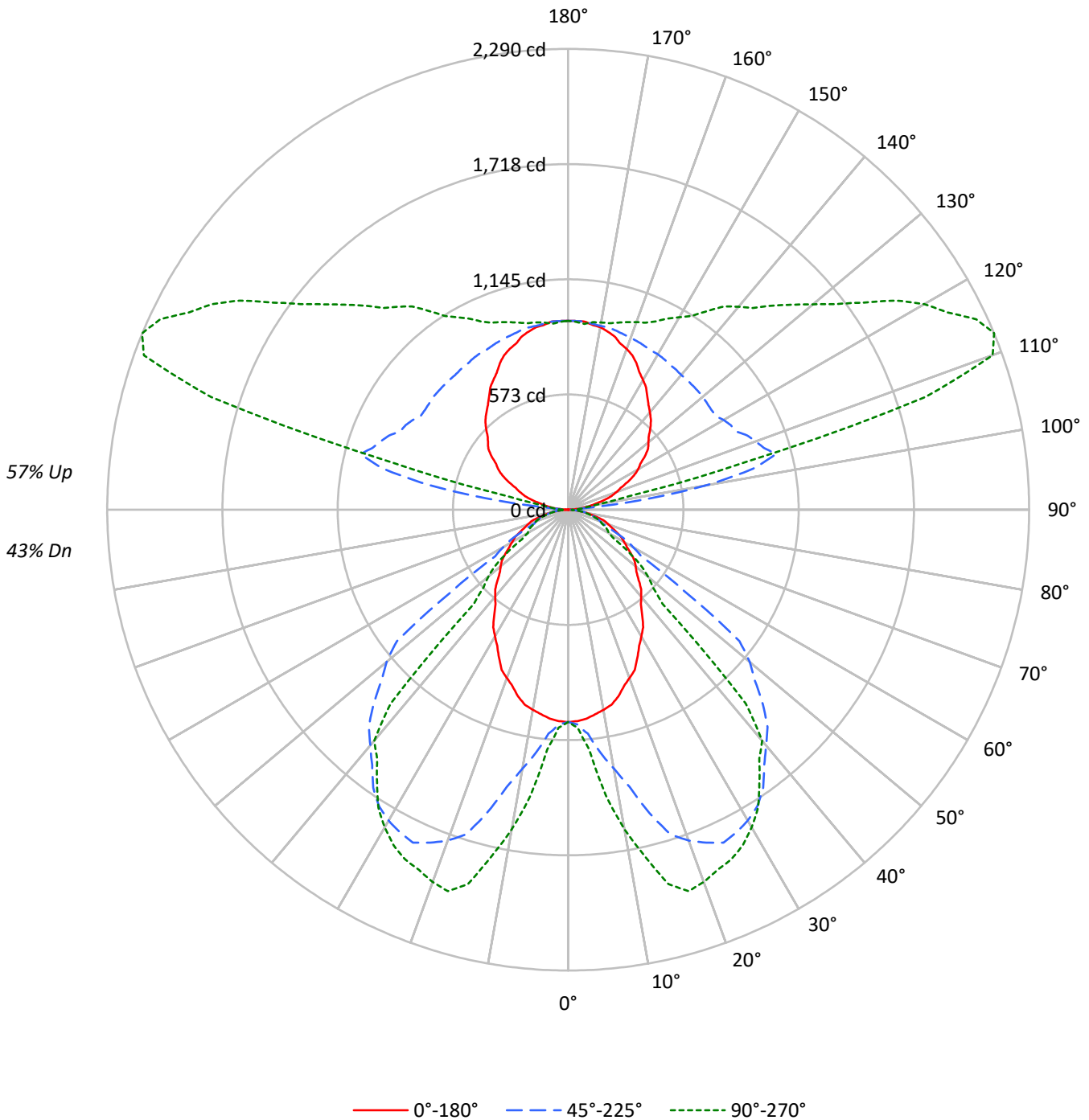
Lumens per Lamp: N/A
Luminaire Lumens: 8824.7 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

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	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°	7571	7571	7571
5°	7507	8048	8620
10°	7360	9516	11750
15°	7137	11598	14306
20°	6796	13363	15033
25°	6435	14449	15179
30°	6024	14784	15104
35°	5617	14785	14503
40°	5283	14323	14042
45°	5027	13885	6724
50°	4884	13143	5794
55°	4749	8800	4588
60°	4617	5355	3324
65°	4515	4079	3459
70°	4454	3554	3554
75°	4339	3688	3568
80°	3810	3723	3546
85°	2824	3886	3351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13885 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	1.3
10°-20°	419.5	4.8
20°-30°	710.5	8.1
30°-40°	862.0	9.8
40°-50°	758.7	8.6
50°-60°	469.5	5.3
60°-70°	254.5	2.9
70°-80°	145.0	1.6
80°-90°	49.5	0.6
90°-100°	115.4	1.3
100°-110°	822.3	9.3
110°-120°	1116.3	12.7
120°-130°	908.6	10.3
130°-140°	730.8	8.3
140°-150°	576.1	6.5
150°-160°	421.3	4.8
160°-170°	261.7	3.0
170°-180°	89.2	1.0
0°-30°	1243.8	14.1
0°-40°	2105.8	23.9
0°-60°	3334.0	37.8
0°-90°	3783.0	42.9
90°-120°	2054.0	23.3
90°-150°	4269.5	48.4
90°-180°	5042.0	57.1
0°-180°	8824.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1042	1076	1117	1165	1197	98
15°	961	1108	1561	1846	1926	269
25°	813	1113	1825	1879	1917	373
35°	641	1031	1688	1664	1656	402
45°	495	848	1368	1160	663	384
55°	380	591	703	406	367	340
65°	266	333	240	206	204	264
75°	156	138	133	131	129	164
85°	34	47	47	43	41	42
90°	0	6	12	18	18	3
95°	47	88	47	53	65	53
105°	183	281	1068	1365	903	193
115°	325	394	921	1914	2237	322
125°	466	530	868	1517	1794	414
135°	578	642	874	1250	1434	445
145°	685	742	880	1089	1204	430
155°	803	832	897	987	1033	369
165°	891	903	921	945	962	250
175°	939	944	939	932	927	89
180°	939	939	939	939	939	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.1	1055.1	1055.1	1055.1	1055.1
2.5°	1051.6	1063.4	1068.8	1079.2	1084.2
5°	1042.2	1075.7	1117.3	1165.1	1196.6
7.5°	1025.5	1085.4	1216.8	1367.9	1432.5
10°	1010.0	1091.8	1306.0	1524.6	1612.6
12.5°	992.9	1098.1	1410.6	1675.6	1765.3
15°	960.7	1107.5	1561.2	1846.0	1925.7
17.5°	919.1	1113.3	1691.5	1936.3	1987.5
20°	889.9	1114.3	1749.9	1947.6	1968.6
22.5°	862.5	1115.4	1791.0	1920.1	1937.7
25°	812.7	1112.6	1824.9	1879.4	1917.1
27.5°	763.0	1100.2	1808.2	1852.1	1879.4
30°	727.0	1087.6	1784.2	1820.7	1822.8
32.5°	692.7	1066.7	1748.2	1758.8	1755.9
35°	641.2	1031.2	1687.7	1663.9	1655.5
37.5°	593.2	984.0	1599.3	1561.1	1559.0
40°	564.0	949.8	1529.0	1492.7	1499.0
42.5°	536.5	910.6	1465.5	1422.9	1305.1
45°	495.4	847.6	1368.2	1159.6	662.6
47.5°	459.8	776.0	1257.9	621.2	570.4
50°	437.5	726.8	1177.3	546.2	519.0
52.5°	415.2	681.0	1072.7	491.1	455.5
55°	379.6	591.3	703.4	406.5	366.7
57.5°	345.7	497.1	429.7	316.0	272.8
60°	321.7	441.2	373.1	254.7	231.6
62.5°	299.4	395.4	318.2	225.9	221.3
65°	265.9	333.0	240.2	205.8	203.7
67.5°	234.6	273.6	183.1	185.2	183.1
70°	212.3	231.2	169.4	171.5	169.4
72.5°	191.7	190.5	155.7	154.4	152.3
75°	156.5	137.7	133.0	130.8	128.7
77.5°	119.7	101.6	107.2	105.0	102.9
80°	92.2	85.9	90.1	87.9	85.8
82.5°	68.2	70.3	72.9	69.0	66.9
85°	34.3	46.9	47.2	42.8	40.7
87.5°	10.3	21.5	21.2	18.9	17.3
90°	0.0	5.8	11.8	17.7	17.7
92.5°	14.2	19.9	26.0	36.7	41.3
95°	47.2	87.6	47.2	53.4	64.9
97.5°	83.8	168.1	347.1	102.4	88.5
100°	112.2	210.3	696.5	205.0	135.8
102.5°	140.5	243.2	942.1	541.0	296.3
105°	183.0	281.1	1068.4	1364.9	903.1
107.5°	225.5	299.4	1020.0	1986.4	1860.6
110°	253.8	323.1	991.7	2087.3	2243.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.2	351.4	963.3	2028.3	2290.3
115°	324.7	393.9	920.8	1914.0	2237.2
117.5°	368.3	436.4	910.2	1790.2	2122.7
120°	401.4	464.9	891.3	1696.1	2042.4
122.5°	425.0	493.1	867.7	1615.2	1933.8
125°	466.3	529.8	867.7	1517.4	1794.5
127.5°	500.6	565.2	868.9	1404.0	1677.6
130°	519.5	588.7	873.6	1328.1	1587.9
132.5°	543.1	612.3	873.6	1294.0	1507.6
135°	578.5	642.0	873.6	1249.7	1434.4
137.5°	608.0	676.1	873.6	1200.7	1358.8
140°	631.6	695.1	873.6	1172.0	1316.3
142.5°	655.2	714.1	878.3	1138.8	1273.8
145°	684.7	742.4	879.5	1088.8	1204.2
147.5°	720.1	770.9	886.6	1052.7	1141.6
150°	743.8	789.9	891.3	1028.8	1103.8
152.5°	767.4	808.9	891.3	1009.6	1070.8
155°	802.8	831.6	897.2	986.8	1033.0
157.5°	831.1	858.8	904.3	972.4	1005.8
160°	850.0	873.1	909.0	962.8	991.7
162.5°	864.2	887.3	913.8	957.9	977.5
165°	891.3	902.9	920.8	944.9	962.2
167.5°	906.7	917.1	926.7	938.8	949.2
170°	920.8	926.6	926.7	938.7	944.5
172.5°	925.6	936.0	931.5	934.0	939.7
175°	938.6	944.3	938.6	932.5	926.7
177.5°	938.6	943.2	938.6	938.5	933.8
180°	938.6	938.6	938.6	938.6	938.6

(END OF REPORT)