

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: P621886

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621886
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-930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

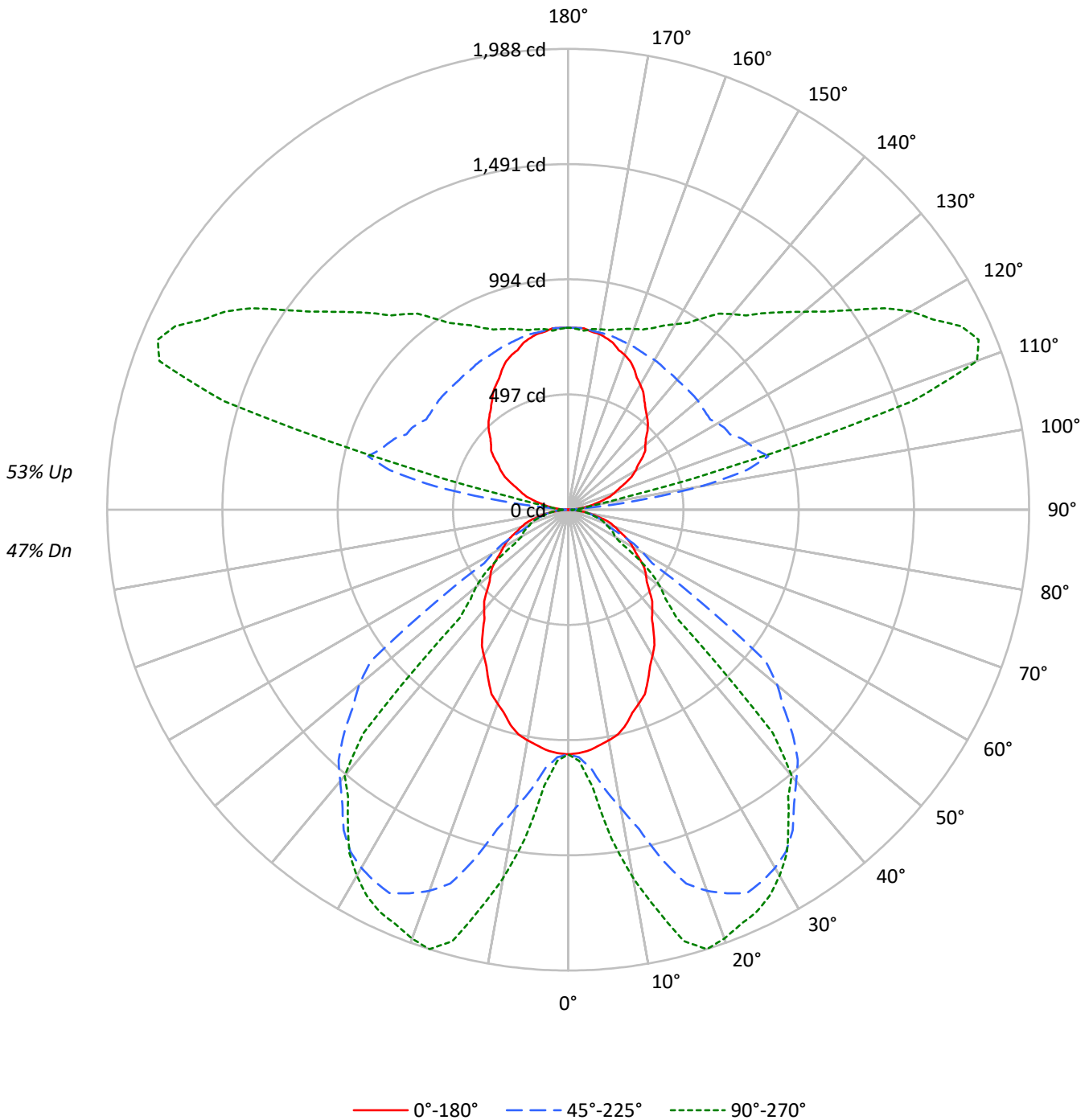
Lumens per Lamp: N/A
Luminaire Lumens: 7999.8 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 76.9
Input Voltage (V): 120
Input Current (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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	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°	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	1.4
10°-20°	419.5	5.2
20°-30°	710.5	8.9
30°-40°	862.0	10.8
40°-50°	758.7	9.5
50°-60°	469.5	5.9
60°-70°	254.5	3.2
70°-80°	145.0	1.8
80°-90°	49.2	0.6
90°-100°	96.5	1.2
100°-110°	687.8	8.6
110°-120°	933.8	11.7
120°-130°	760.0	9.5
130°-140°	611.2	7.6
140°-150°	481.9	6.0
150°-160°	352.4	4.4
160°-170°	218.9	2.7
170°-180°	74.6	0.9
0°-30°	1243.8	15.5
0°-40°	2105.8	26.3
0°-60°	3334.0	41.7
0°-90°	3782.7	47.3
90°-120°	1718.1	21.5
90°-150°	3571.3	44.6
90°-180°	4217.0	52.7
0°-180°	7999.8	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	5	10	15	15	3
95°	40	73	40	45	54	44
105°	153	235	894	1142	755	161
115°	272	330	770	1601	1871	270
125°	390	443	726	1269	1501	347
135°	484	537	731	1045	1200	372
145°	573	621	736	911	1007	360
155°	672	696	750	825	864	308
165°	746	755	770	790	805	209
175°	785	790	785	780	775	74
180°	785	785	785	785	785	



TEST NUMBER: P621886

CATALOG NUMBER: VLT-FB-125U-125D-930-UNV-STD-W-4

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	21.3	20.8	18.4	16.7
90°	0.0	4.8	9.9	14.8	14.8
92.5°	11.8	16.7	21.7	30.7	34.6
95°	39.5	73.3	39.5	44.7	54.3
97.5°	70.1	140.6	290.3	85.6	74.1
100°	93.8	175.9	582.6	171.5	113.6
102.5°	117.5	203.4	788.0	452.6	247.9
105°	153.1	235.1	893.7	1141.7	755.4
107.5°	188.6	250.4	853.2	1661.5	1556.3
110°	212.3	270.2	829.5	1745.9	1876.2



TEST NUMBER: P621886

CATALOG NUMBER: VLT-FB-125U-125D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	293.9	805.8	1696.6	1915.7
115°	271.6	329.5	770.2	1600.9	1871.3
117.5°	308.1	365.1	761.4	1497.4	1775.5
120°	335.7	388.9	745.6	1418.7	1708.4
122.5°	355.5	412.5	725.8	1351.0	1617.5
125°	390.1	443.2	725.8	1269.3	1501.0
127.5°	418.7	472.8	726.8	1174.4	1403.2
130°	434.5	492.4	730.7	1110.9	1328.2
132.5°	454.2	512.2	730.7	1082.4	1261.0
135°	483.9	537.0	730.7	1045.3	1199.8
137.5°	508.6	565.5	730.7	1004.3	1136.6
140°	528.3	581.4	730.7	980.4	1101.1
142.5°	548.1	597.3	734.7	952.5	1065.5
145°	572.7	621.0	735.7	910.7	1007.2
147.5°	602.4	644.9	741.6	880.6	954.9
150°	622.1	660.7	745.6	860.5	923.3
152.5°	641.9	676.6	745.6	844.5	895.7
155°	671.5	695.6	750.5	825.4	864.1
157.5°	695.2	718.4	756.4	813.3	841.3
160°	711.0	730.3	760.4	805.4	829.5
162.5°	722.8	742.2	764.3	801.2	817.6
165°	745.6	755.2	770.2	790.3	804.8
167.5°	758.4	767.1	775.2	785.3	793.9
170°	770.2	775.1	775.2	785.2	790.0
172.5°	774.2	782.9	779.1	781.2	786.0
175°	785.1	789.9	785.1	780.0	775.2
177.5°	785.1	788.9	785.1	785.0	781.1
180°	785.1	785.1	785.1	785.1	785.1

(END OF REPORT)