

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: P621882

Luminaire Tested: VLT-FB-125U-100D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621882
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-100D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

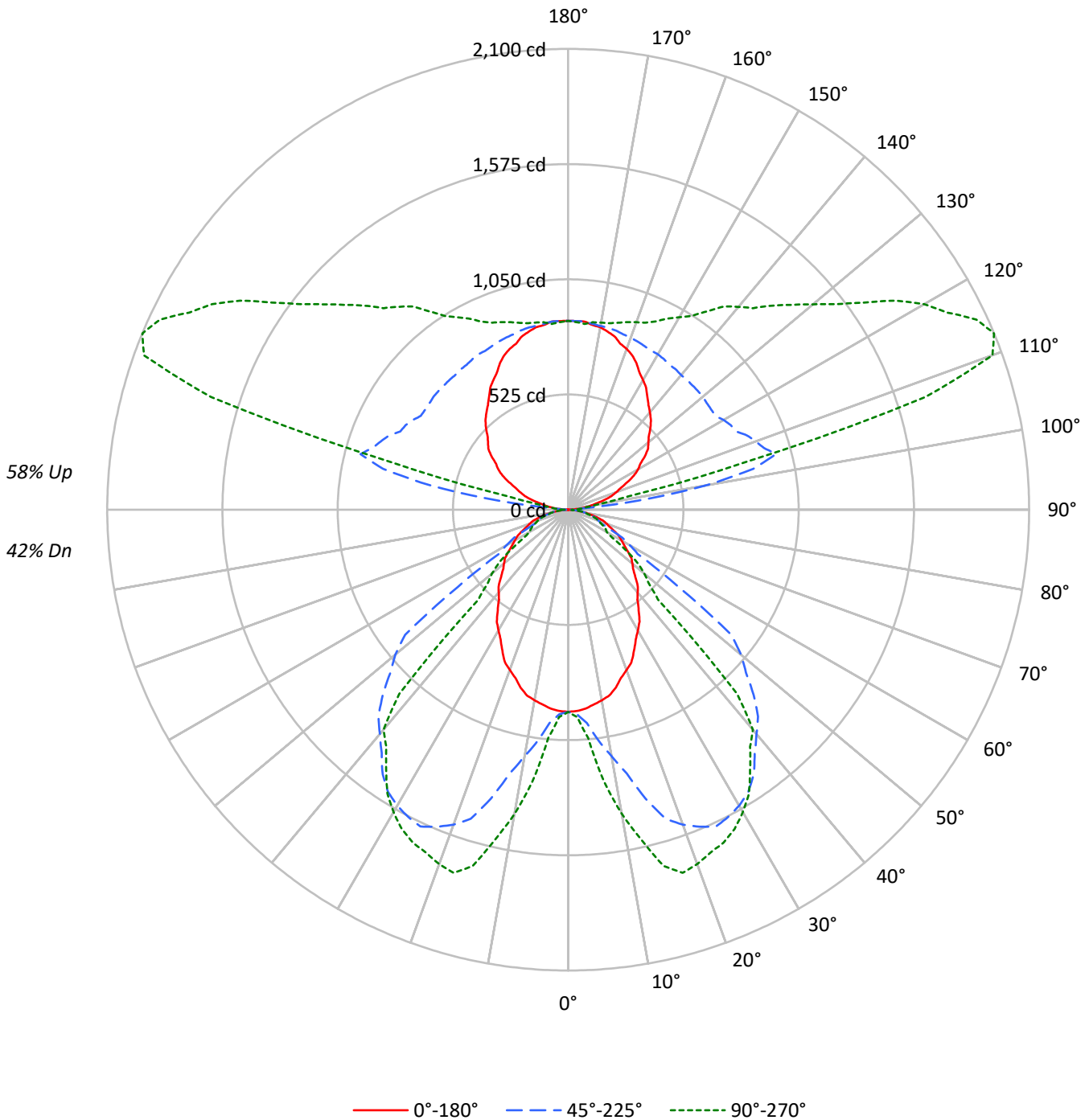
Lumens per Lamp: N/A
Luminaire Lumens: 7924.7 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 67.4
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	63	63	63	48	48	48	42				
1	96	92	89	85	88	84	81	79	70	68	66	56	55	53	44	43	42	36				
2	88	81	75	71	80	74	69	65	62	58	55	50	47	45	39	37	36	31				
3	81	72	65	59	74	66	60	55	55	50	47	45	41	39	35	33	31	27				
4	74	64	56	50	67	59	52	47	49	44	40	40	36	34	32	29	27	23				
5	68	57	49	43	62	52	46	41	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	38	57	47	40	35	40	34	31	33	29	26	26	23	21	18				
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	22	27	23	19	23	19	16	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6610	6610	6610
5°	6554	7025	7525
10°	6425	8308	10258
15°	6231	10125	12489
20°	5933	11665	13124
25°	5618	12614	13251
30°	5258	12906	13186
35°	4903	12906	12660
40°	4613	12504	12258
45°	4388	12121	5871
50°	4263	11474	5057
55°	4146	7682	4005
60°	4030	4674	2902
65°	3941	3561	3019
70°	3888	3103	3103
75°	3790	3219	3114
80°	3327	3248	3095
85°	2470	3392	2931

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 12121 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	1.3
10°-20°	366.2	4.6
20°-30°	620.3	7.8
30°-40°	752.5	9.5
40°-50°	662.3	8.4
50°-60°	409.8	5.2
60°-70°	222.2	2.8
70°-80°	126.6	1.6
80°-90°	43.3	0.5
90°-100°	105.8	1.3
100°-110°	753.9	9.5
110°-120°	1023.4	12.9
120°-130°	833.0	10.5
130°-140°	670.0	8.5
140°-150°	528.2	6.7
150°-160°	386.2	4.9
160°-170°	239.9	3.0
170°-180°	81.8	1.0
0°-30°	1085.9	13.7
0°-40°	1838.3	23.2
0°-60°	2910.5	36.7
0°-90°	3302.6	41.7
90°-120°	1883.1	23.8
90°-150°	3914.2	49.4
90°-180°	4622.0	58.3
0°-180°	7924.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	910	939	975	1017	1045	86
15°	839	967	1363	1612	1681	235
25°	710	971	1593	1641	1674	326
35°	560	900	1473	1453	1445	351
45°	432	740	1194	1012	578	335
55°	331	516	614	355	320	297
65°	232	291	210	180	178	230
75°	137	120	116	114	112	143
85°	30	41	41	37	36	36
90°	0	5	11	16	16	3
95°	43	80	43	49	60	48
105°	168	258	980	1251	828	177
115°	298	361	844	1755	2051	295
125°	428	486	796	1391	1645	380
135°	530	588	801	1146	1315	408
145°	628	681	806	998	1104	394
155°	736	762	823	905	947	338
165°	817	828	844	866	882	229
175°	860	866	860	855	850	81
180°	860	860	860	860	860	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.1	921.1	921.1	921.1	921.1
2.5°	918.1	928.3	933.0	942.1	946.5
5°	909.8	939.1	975.3	1017.2	1044.6
7.5°	895.2	947.6	1062.2	1194.2	1250.5
10°	881.7	953.1	1140.1	1330.9	1407.8
12.5°	866.8	958.7	1231.4	1462.7	1541.1
15°	838.7	966.8	1362.9	1611.6	1681.1
17.5°	802.4	971.9	1476.7	1690.4	1735.0
20°	776.9	972.8	1527.6	1700.3	1718.6
22.5°	752.9	973.7	1563.6	1676.2	1691.6
25°	709.5	971.3	1593.1	1640.7	1673.6
27.5°	666.1	960.4	1578.5	1616.9	1640.7
30°	634.6	949.5	1557.6	1589.4	1591.3
32.5°	604.7	931.2	1526.1	1535.4	1532.9
35°	559.7	900.2	1473.3	1452.6	1445.2
37.5°	517.8	859.0	1396.2	1362.8	1361.0
40°	492.4	829.2	1334.8	1303.1	1308.6
42.5°	468.4	794.9	1279.4	1242.2	1139.3
45°	432.4	740.0	1194.4	1012.3	578.5
47.5°	401.4	677.4	1098.2	542.3	498.0
50°	381.9	634.5	1027.8	476.8	453.0
52.5°	362.4	594.5	936.4	428.7	397.6
55°	331.4	516.2	614.0	354.9	320.1
57.5°	301.8	433.9	375.2	275.8	238.1
60°	280.8	385.1	325.7	222.3	202.2
62.5°	261.3	345.2	277.8	197.2	193.2
65°	232.1	290.7	209.7	179.7	177.8
67.5°	204.8	238.9	159.9	161.7	159.9
70°	185.3	201.8	147.9	149.7	147.9
72.5°	167.4	166.3	135.9	134.7	132.9
75°	136.7	120.2	116.1	114.2	112.3
77.5°	104.5	88.7	93.6	91.7	89.9
80°	80.5	75.0	78.6	76.7	74.9
82.5°	59.5	61.4	63.7	60.2	58.4
85°	30.0	40.9	41.2	37.4	35.6
87.5°	9.0	18.8	18.6	16.7	15.2
90°	0.0	5.3	10.8	16.2	16.2
92.5°	13.0	18.3	23.8	33.6	37.9
95°	43.3	80.3	43.3	48.9	59.5
97.5°	76.8	154.1	318.2	93.9	81.2
100°	102.8	192.8	638.6	188.0	124.5
102.5°	128.8	223.0	863.7	496.0	271.7
105°	167.8	257.7	979.5	1251.3	828.0
107.5°	206.7	274.5	935.1	1821.1	1705.8
110°	232.7	296.2	909.2	1913.6	2056.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	258.7	322.2	883.2	1859.5	2099.7
115°	297.6	361.1	844.2	1754.7	2051.0
117.5°	337.7	400.1	834.5	1641.2	1946.0
120°	368.0	426.2	817.2	1554.9	1872.4
122.5°	389.6	452.1	795.5	1480.8	1772.9
125°	427.5	485.7	795.5	1391.2	1645.1
127.5°	458.9	518.2	796.6	1287.2	1538.0
130°	476.2	539.7	800.9	1217.6	1455.7
132.5°	497.9	561.4	800.9	1186.4	1382.1
135°	530.3	588.5	800.9	1145.7	1315.0
137.5°	557.4	619.8	800.9	1100.8	1245.8
140°	579.0	637.3	800.9	1074.5	1206.8
142.5°	600.7	654.7	805.3	1044.0	1167.8
145°	627.8	680.7	806.3	998.1	1104.0
147.5°	660.2	706.8	812.8	965.1	1046.6
150°	681.9	724.2	817.2	943.2	1012.0
152.5°	703.5	741.6	817.2	925.6	981.7
155°	736.0	762.4	822.6	904.7	947.0
157.5°	762.0	787.4	829.1	891.5	922.1
160°	779.3	800.4	833.4	882.7	909.2
162.5°	792.3	813.4	837.7	878.2	896.2
165°	817.2	827.7	844.2	866.2	882.1
167.5°	831.2	840.8	849.6	860.7	870.2
170°	844.2	849.5	849.6	860.6	865.9
172.5°	848.5	858.1	854.0	856.2	861.5
175°	860.5	865.7	860.5	854.9	849.6
177.5°	860.5	864.7	860.5	860.4	856.1
180°	860.5	860.5	860.5	860.5	860.5

(END OF REPORT)