

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: P621880

Luminaire Tested: VLT-FB-125U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621880
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-930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

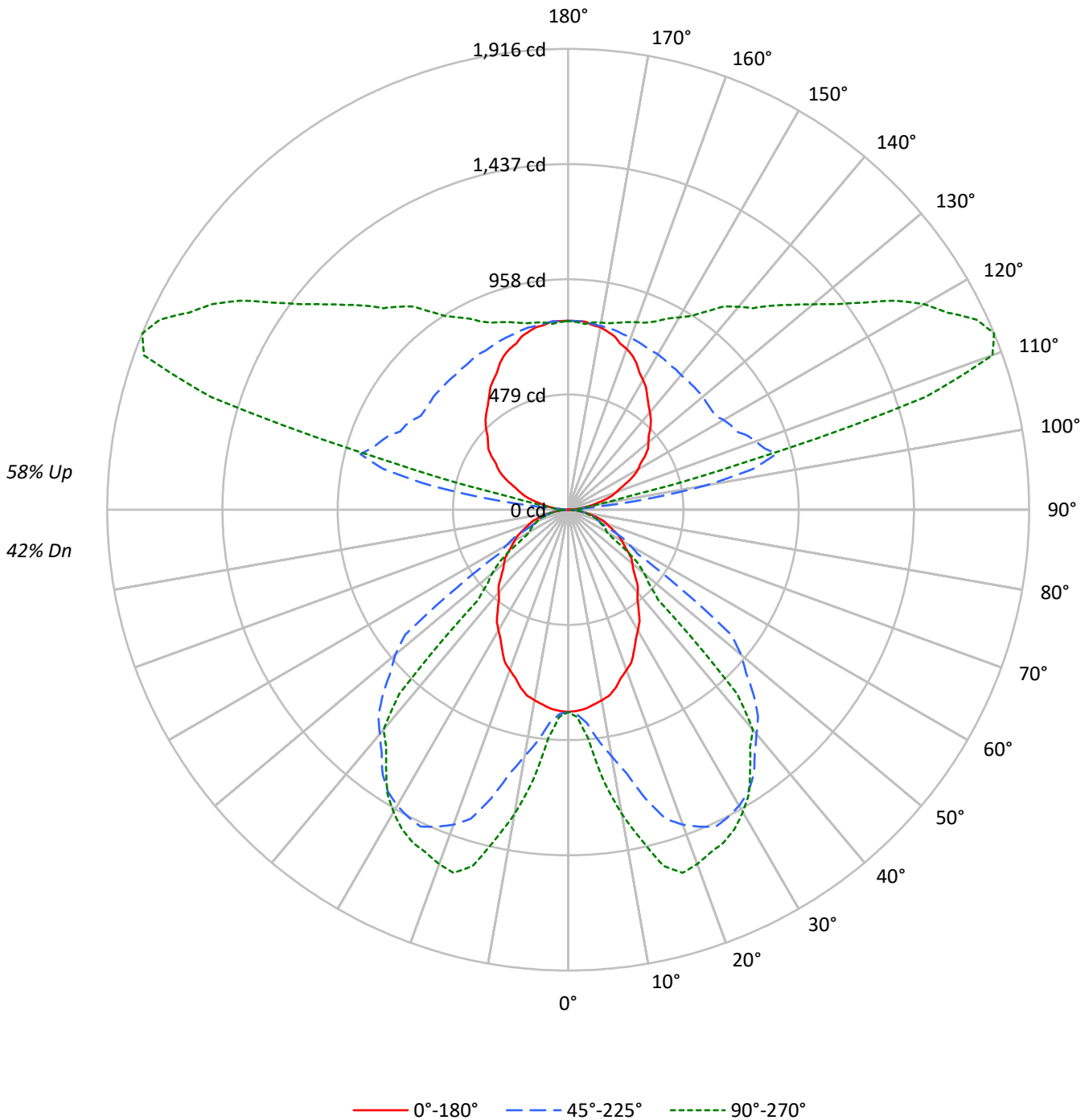
Lumens per Lamp: N/A
Luminaire Lumens: 7230.4 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	6031	6031	6031
5°	5980	6410	6866
10°	5862	7580	9359
15°	5685	9237	11395
20°	5413	10644	11974
25°	5125	11508	12090
30°	4798	11775	12030
35°	4474	11775	11551
40°	4208	11408	11184
45°	4005	11059	5356
50°	3889	10468	4614
55°	3782	7009	3654
60°	3677	4265	2648
65°	3596	3248	2756
70°	3548	2830	2830
75°	3457	2936	2842
80°	3033	2963	2822
85°	2248	3096	2676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11059 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.3
10°-20°	334.1	4.6
20°-30°	565.9	7.8
30°-40°	686.5	9.5
40°-50°	604.3	8.4
50°-60°	373.9	5.2
60°-70°	202.7	2.8
70°-80°	115.5	1.6
80°-90°	39.5	0.5
90°-100°	96.5	1.3
100°-110°	687.8	9.5
110°-120°	933.8	12.9
120°-130°	760.0	10.5
130°-140°	611.2	8.5
140°-150°	481.9	6.7
150°-160°	352.4	4.9
160°-170°	218.9	3.0
170°-180°	74.6	1.0
0°-30°	990.7	13.7
0°-40°	1677.2	23.2
0°-60°	2655.5	36.7
0°-90°	3013.2	41.7
90°-120°	1718.1	23.8
90°-150°	3571.3	49.4
90°-180°	4217.0	58.3
0°-180°	7230.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	830	857	890	928	953	78
15°	765	882	1243	1470	1534	214
25°	647	886	1454	1497	1527	297
35°	511	821	1344	1325	1319	320
45°	395	675	1090	924	528	306
55°	302	471	560	324	292	271
65°	212	265	191	164	162	210
75°	125	110	106	104	102	130
85°	27	37	38	34	32	33
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	840.4	840.4	840.4	840.4	840.4
2.5°	837.6	847.0	851.3	859.6	863.6
5°	830.1	856.8	889.9	928.0	953.1
7.5°	816.8	864.5	969.1	1089.5	1141.0
10°	804.5	869.6	1040.2	1214.3	1284.4
12.5°	790.8	874.7	1123.5	1334.6	1406.1
15°	765.2	882.1	1243.4	1470.4	1533.8
17.5°	732.1	886.7	1347.3	1542.3	1583.0
20°	708.8	887.5	1393.8	1551.3	1568.0
22.5°	687.0	888.4	1426.6	1529.4	1543.4
25°	647.3	886.2	1453.5	1496.9	1527.0
27.5°	607.7	876.3	1440.2	1475.2	1496.9
30°	579.0	866.3	1421.1	1450.2	1451.8
32.5°	551.7	849.6	1392.4	1400.9	1398.5
35°	510.7	821.3	1344.2	1325.3	1318.6
37.5°	472.4	783.7	1273.9	1243.4	1241.7
40°	449.2	756.5	1217.8	1188.9	1193.9
42.5°	427.4	725.3	1167.3	1133.4	1039.5
45°	394.6	675.1	1089.7	923.6	527.8
47.5°	366.2	618.1	1001.9	494.8	454.3
50°	348.4	578.9	937.7	435.1	413.3
52.5°	330.7	542.4	854.4	391.2	362.8
55°	302.3	471.0	560.2	323.8	292.1
57.5°	275.3	395.9	342.3	251.7	217.3
60°	256.2	351.4	297.2	202.8	184.5
62.5°	238.4	314.9	253.5	179.9	176.3
65°	211.8	265.2	191.3	163.9	162.3
67.5°	186.9	217.9	145.9	147.5	145.9
70°	169.1	184.1	134.9	136.6	134.9
72.5°	152.7	151.7	124.0	122.9	121.3
75°	124.7	109.7	105.9	104.2	102.5
77.5°	95.3	80.9	85.4	83.7	82.0
80°	73.4	68.4	71.7	70.0	68.3
82.5°	54.3	56.0	58.1	55.0	53.3
85°	27.3	37.3	37.6	34.1	32.5
87.5°	8.2	17.2	17.0	15.2	13.9
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



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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)