

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: P621863

Luminaire Tested: VLT-FB-100U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621863
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-100U-125D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

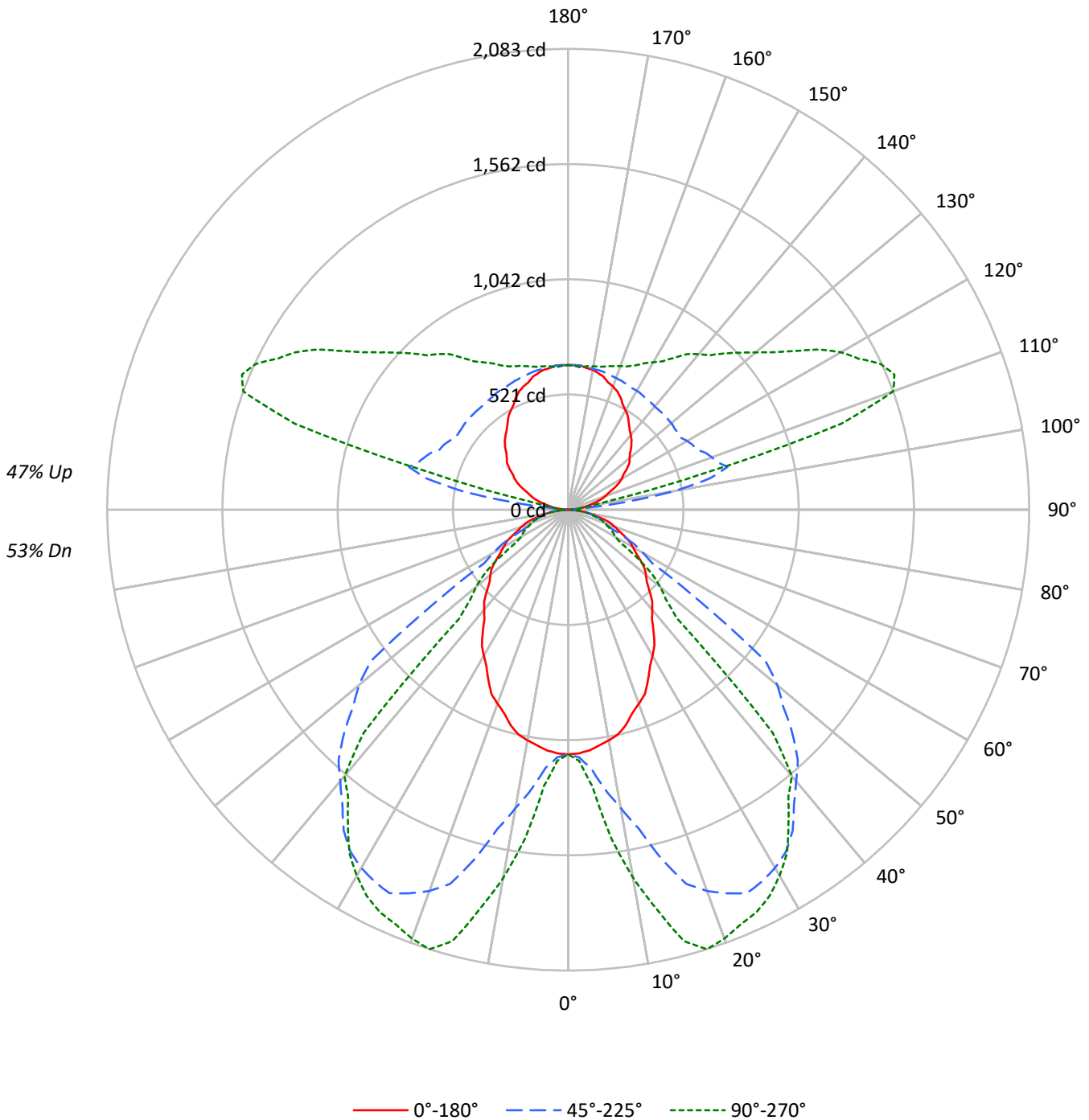
Lumens per Lamp: N/A
Luminaire Lumens: 7476.4 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 67.7
Input Voltage (V): 120
Input Current (Ain): 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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53				
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46				
2	91	84	78	73	84	78	73	69	67	63	60	57	54	52	47	46	44	40				
3	83	74	67	62	77	69	63	58	60	55	51	51	47	45	43	40	38	34				
4	76	66	58	53	71	62	55	50	53	48	44	46	42	39	38	36	33	30				
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26				
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	32	28	26	23				
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21				
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	23	21	18				
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19	17				
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	23	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7934	7934	7934
5°	7868	8434	9033
10°	7713	9973	12314
15°	7480	12155	14993
20°	7123	14004	15755
25°	6744	15143	15908
30°	6313	15493	15829
35°	5887	15494	15199
40°	5537	15011	14715
45°	5268	14551	7047
50°	5119	13774	6072
55°	4977	9222	4808
60°	4838	5612	3483
65°	4732	4274	3625
70°	4668	3724	3724
75°	4550	3862	3737
80°	3992	3901	3715
85°	2964	4067	3516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14551 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	1.6
10°-20°	439.6	5.9
20°-30°	744.6	10.0
30°-40°	903.3	12.1
40°-50°	795.1	10.6
50°-60°	492.0	6.6
60°-70°	266.7	3.6
70°-80°	152.0	2.0
80°-90°	51.2	0.7
90°-100°	80.4	1.1
100°-110°	572.9	7.7
110°-120°	777.8	10.4
120°-130°	633.0	8.5
130°-140°	509.1	6.8
140°-150°	401.4	5.4
150°-160°	293.5	3.9
160°-170°	182.3	2.4
170°-180°	62.2	0.8
0°-30°	1303.5	17.4
0°-40°	2206.9	29.5
0°-60°	3494.0	46.7
0°-90°	3963.8	53.0
90°-120°	1431.1	19.1
90°-150°	2974.6	39.8
90°-180°	3513.0	47.0
0°-180°	7476.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1092	1127	1171	1221	1254	103
15°	1007	1161	1636	1935	2018	282
25°	852	1166	1912	1970	2009	391
35°	672	1081	1769	1744	1735	421
45°	519	888	1434	1215	694	403
55°	398	620	737	426	384	356
65°	279	349	252	216	214	277
75°	164	144	139	137	135	171
85°	36	49	49	45	43	44
90°	0	4	8	12	12	3
95°	33	61	33	37	45	37
105°	128	196	744	951	629	134
115°	226	274	642	1334	1559	225
125°	325	369	604	1057	1250	289
135°	403	447	609	871	999	310
145°	477	517	613	758	839	300
155°	559	579	625	688	720	257
165°	621	629	642	658	670	174
175°	654	658	654	650	646	62
180°	654	654	654	654	654	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.7	1105.7	1105.7	1105.7	1105.7
2.5°	1102.1	1114.4	1120.1	1131.0	1136.3
5°	1092.2	1127.4	1170.9	1221.1	1254.0
7.5°	1074.7	1137.5	1275.1	1433.6	1501.2
10°	1058.5	1144.2	1368.6	1597.7	1690.0
12.5°	1040.5	1150.8	1478.3	1756.0	1850.0
15°	1006.8	1160.6	1636.1	1934.6	2018.1
17.5°	963.2	1166.7	1772.7	2029.2	2082.8
20°	932.7	1167.8	1833.8	2041.1	2063.1
22.5°	903.9	1168.9	1877.0	2012.3	2030.7
25°	851.7	1166.0	1912.5	1969.6	2009.1
27.5°	799.6	1153.0	1895.0	1941.0	1969.6
30°	761.9	1139.8	1869.8	1908.1	1910.3
32.5°	725.9	1117.9	1832.0	1843.2	1840.1
35°	672.0	1080.7	1768.7	1743.7	1735.0
37.5°	621.6	1031.2	1676.1	1636.0	1633.8
40°	591.1	995.4	1602.4	1564.3	1570.9
42.5°	562.3	954.3	1535.8	1491.2	1367.7
45°	519.1	888.3	1433.8	1215.2	694.4
47.5°	481.8	813.2	1318.3	651.0	597.8
50°	458.5	761.7	1233.8	572.4	543.9
52.5°	435.1	713.7	1124.1	514.7	477.3
55°	397.8	619.7	737.1	426.0	384.3
57.5°	362.3	520.9	450.4	331.1	285.9
60°	337.1	462.4	391.0	266.9	242.7
62.5°	313.7	414.4	333.5	236.8	231.9
65°	278.7	349.0	251.7	215.7	213.5
67.5°	245.9	286.7	191.9	194.1	191.9
70°	222.5	242.3	177.5	179.7	177.5
72.5°	200.9	199.6	163.2	161.8	159.6
75°	164.1	144.3	139.3	137.0	134.8
77.5°	125.4	106.5	112.4	110.1	107.9
80°	96.6	90.0	94.4	92.1	89.9
82.5°	71.5	73.7	76.4	72.3	70.1
85°	36.0	49.1	49.4	44.9	42.7
87.5°	10.8	22.1	21.4	18.6	16.9
90°	0.0	4.0	8.2	12.3	12.3
92.5°	9.9	13.9	18.1	25.6	28.8
95°	32.9	61.0	32.9	37.2	45.2
97.5°	58.4	117.1	241.8	71.3	61.7
100°	78.1	146.5	485.3	142.8	94.6
102.5°	97.9	169.5	656.4	376.9	206.5
105°	127.5	195.8	744.4	950.9	629.2
107.5°	157.1	208.6	710.6	1383.9	1296.3
110°	176.8	225.1	690.9	1454.2	1562.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	196.6	244.8	671.2	1413.1	1595.7
115°	226.2	274.4	641.6	1333.5	1558.7
117.5°	256.6	304.1	634.2	1247.3	1478.9
120°	279.7	323.9	621.0	1181.7	1422.9
122.5°	296.1	343.6	604.5	1125.3	1347.3
125°	324.9	369.1	604.5	1057.2	1250.2
127.5°	348.7	393.8	605.4	978.2	1168.8
130°	361.9	410.2	608.7	925.3	1106.3
132.5°	378.4	426.6	608.7	901.6	1050.3
135°	403.0	447.3	608.7	870.7	999.3
137.5°	423.6	471.0	608.7	836.5	946.7
140°	440.0	484.3	608.7	816.6	917.1
142.5°	456.5	497.5	611.9	793.4	887.5
145°	477.1	517.3	612.8	758.5	839.0
147.5°	501.7	537.1	617.7	733.4	795.4
150°	518.2	550.4	621.0	716.8	769.0
152.5°	534.6	563.6	621.0	703.4	746.0
155°	559.3	579.4	625.1	687.5	719.7
157.5°	579.0	598.3	630.0	677.5	700.8
160°	592.2	608.3	633.3	670.8	690.9
162.5°	602.1	618.2	636.6	667.4	681.0
165°	621.0	629.0	641.6	658.3	670.3
167.5°	631.7	638.9	645.7	654.1	661.3
170°	641.6	645.6	645.7	654.0	658.0
172.5°	644.8	652.1	649.0	650.7	654.7
175°	653.9	657.9	653.9	649.7	645.7
177.5°	653.9	657.1	653.9	653.8	650.6
180°	653.9	653.9	653.9	653.9	653.9

(END OF REPORT)