

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: P621850

Luminaire Tested: VLT-FB-100U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621850
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-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

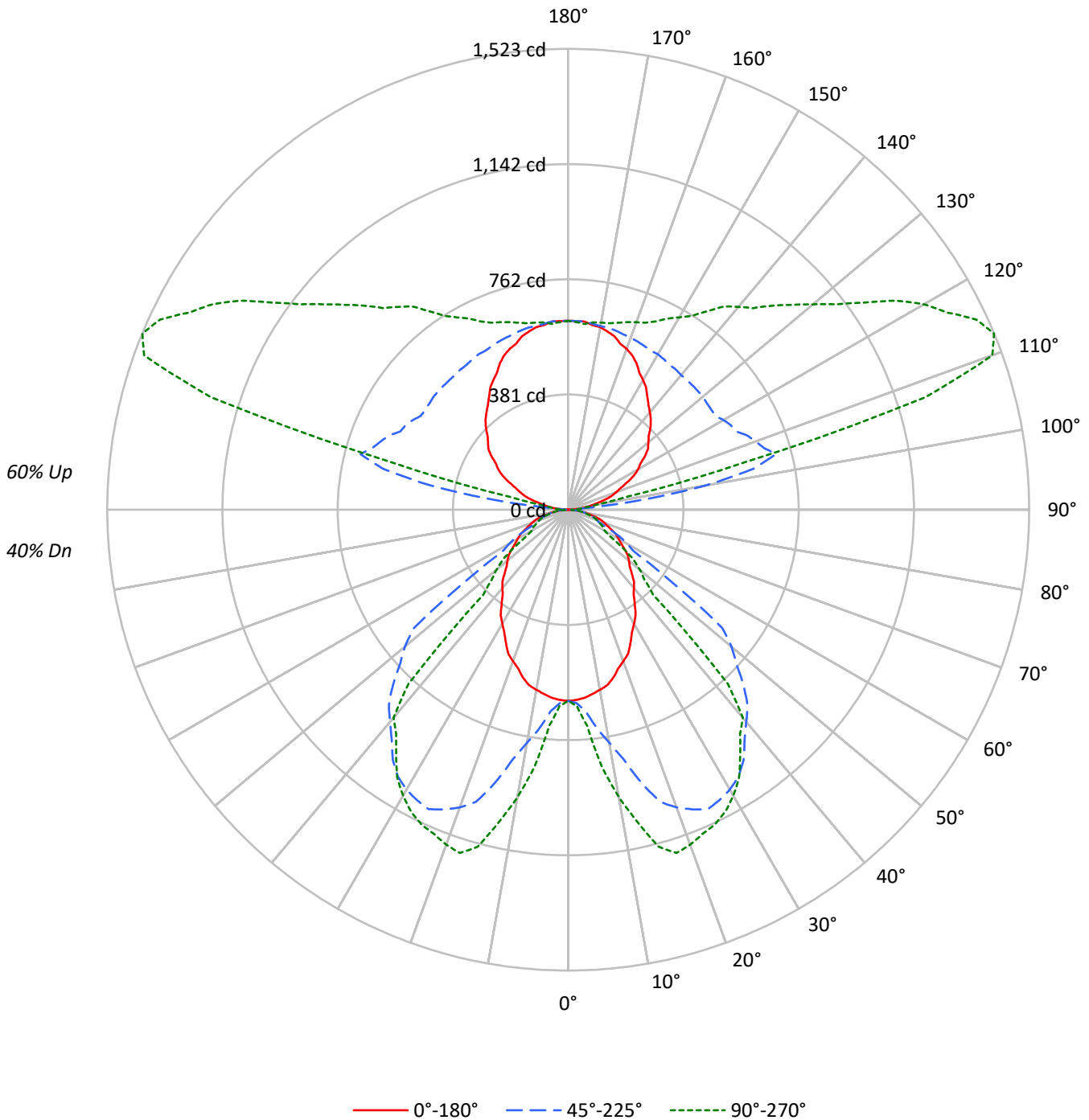
Lumens per Lamp: N/A
Luminaire Lumens: 5616.2 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 50.6
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	95	95	95	95	78	78	78	62	62	62	47	47	47	40				
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	42	41	35				
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	38	36	35	30				
3	80	71	65	59	73	66	60	55	54	50	46	44	41	38	34	32	30	26				
4	74	63	56	50	67	58	52	47	48	44	40	39	36	33	31	28	27	23				
5	68	57	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20				
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	18				
7	58	46	38	33	53	42	36	31	35	30	27	29	25	22	23	20	18	16				
8	54	42	34	29	49	38	32	27	32	27	24	27	23	20	21	18	16	14				
9	50	38	31	26	45	35	29	24	30	25	21	24	21	18	20	17	15	13				
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4532	4532	4532
5°	4493	4817	5159
10°	4405	5696	7033
15°	4272	6942	8563
20°	4068	7998	8998
25°	3852	8649	9086
30°	3605	8849	9040
35°	3362	8849	8680
40°	3162	8573	8405
45°	3009	8310	4025
50°	2923	7867	3467
55°	2842	5267	2746
60°	2763	3205	1989
65°	2703	2442	2070
70°	2667	2127	2127
75°	2598	2207	2135
80°	2281	2227	2120
85°	1688	2322	2009

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 8310 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	1.2
10°-20°	251.1	4.5
20°-30°	425.3	7.6
30°-40°	515.9	9.2
40°-50°	454.1	8.1
50°-60°	281.0	5.0
60°-70°	152.4	2.7
70°-80°	86.8	1.5
80°-90°	29.8	0.5
90°-100°	76.7	1.4
100°-110°	546.7	9.7
110°-120°	742.1	13.2
120°-130°	604.0	10.8
130°-140°	485.8	8.7
140°-150°	383.0	6.8
150°-160°	280.1	5.0
160°-170°	173.9	3.1
170°-180°	59.3	1.1
0°-30°	744.5	13.3
0°-40°	1260.4	22.4
0°-60°	1995.5	35.5
0°-90°	2264.4	40.3
90°-120°	1365.5	24.3
90°-150°	2838.4	50.5
90°-180°	3352.0	59.7
0°-180°	5616.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	624	644	669	697	716	59
15°	575	663	934	1105	1153	161
25°	486	666	1092	1125	1148	223
35°	384	617	1010	996	991	241
45°	296	507	819	694	397	230
55°	227	354	421	243	220	203
65°	159	199	144	123	122	158
75°	94	82	80	78	77	98
85°	20	28	28	26	24	25
90°	0	4	8	12	12	2
95°	31	58	31	36	43	35
105°	122	187	710	907	600	128
115°	216	262	612	1272	1487	214
125°	310	352	577	1009	1193	275
135°	385	427	581	831	954	296
145°	455	494	585	724	800	286
155°	534	553	596	656	687	245
165°	593	600	612	628	640	166
175°	624	628	624	620	616	59
180°	624	624	624	624	624	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	631.5	631.5	631.5	631.5	631.5
2.5°	629.4	636.5	639.7	645.9	648.9
5°	623.8	643.9	668.7	697.4	716.2
7.5°	613.8	649.7	728.3	818.7	857.4
10°	604.5	653.5	781.7	912.5	965.2
12.5°	594.3	657.3	844.3	1002.9	1056.6
15°	575.0	662.9	934.4	1104.9	1152.6
17.5°	550.1	666.3	1012.4	1158.9	1189.6
20°	532.7	666.9	1047.4	1165.7	1178.3
22.5°	516.2	667.6	1072.0	1149.2	1159.8
25°	486.5	665.9	1092.3	1124.9	1147.5
27.5°	456.7	658.5	1082.3	1108.6	1124.9
30°	435.1	651.0	1067.9	1089.7	1091.0
32.5°	414.6	638.5	1046.3	1052.7	1050.9
35°	383.8	617.2	1010.1	995.9	990.9
37.5°	355.0	589.0	957.3	934.4	933.1
40°	337.6	568.5	915.2	893.4	897.2
42.5°	321.1	545.0	877.2	851.7	781.2
45°	296.5	507.3	818.9	694.0	396.6
47.5°	275.2	464.4	752.9	371.8	341.4
50°	261.8	435.0	704.7	326.9	310.6
52.5°	248.5	407.6	642.0	294.0	272.6
55°	227.2	353.9	421.0	243.3	219.5
57.5°	206.9	297.5	257.2	189.1	163.3
60°	192.5	264.1	223.3	152.4	138.6
62.5°	179.2	236.7	190.5	135.2	132.5
65°	159.2	199.3	143.8	123.2	121.9
67.5°	140.4	163.8	109.6	110.9	109.6
70°	127.1	138.4	101.4	102.7	101.4
72.5°	114.7	114.0	93.2	92.4	91.1
75°	93.7	82.4	79.6	78.3	77.0
77.5°	71.6	60.8	64.2	62.9	61.6
80°	55.2	51.4	53.9	52.6	51.3
82.5°	40.8	42.1	43.6	41.3	40.0
85°	20.5	28.1	28.2	25.6	24.4
87.5°	6.2	13.0	12.9	11.6	10.6
90°	0.0	3.8	7.8	11.8	11.8
92.5°	9.4	13.3	17.3	24.4	27.5
95°	31.4	58.3	31.4	35.5	43.2
97.5°	55.7	111.7	230.7	68.1	58.9
100°	74.6	139.8	463.1	136.3	90.3
102.5°	93.4	161.7	626.3	359.7	197.0
105°	121.7	186.9	710.3	907.4	600.4
107.5°	149.9	199.0	678.1	1320.6	1236.9
110°	168.7	214.8	659.3	1387.6	1491.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	187.6	233.6	640.4	1348.4	1522.6
115°	215.8	261.9	612.2	1272.4	1487.3
117.5°	244.9	290.1	605.1	1190.1	1411.2
120°	266.8	309.1	592.6	1127.6	1357.8
122.5°	282.5	327.8	576.9	1073.8	1285.6
125°	310.0	352.2	576.9	1008.8	1193.0
127.5°	332.8	375.7	577.6	933.4	1115.3
130°	345.3	391.4	580.8	883.0	1055.6
132.5°	361.0	407.1	580.8	860.3	1002.2
135°	384.6	426.8	580.8	830.8	953.6
137.5°	404.2	449.5	580.8	798.2	903.4
140°	419.9	462.1	580.8	779.2	875.1
142.5°	435.6	474.7	583.9	757.1	846.8
145°	455.2	493.6	584.7	723.8	800.5
147.5°	478.8	512.5	589.4	699.9	758.9
150°	494.5	525.1	592.6	683.9	733.8
152.5°	510.1	537.8	592.6	671.2	711.9
155°	533.7	552.9	596.5	656.0	686.7
157.5°	552.5	570.9	601.2	646.4	668.7
160°	565.1	580.4	604.3	640.1	659.3
162.5°	574.5	589.9	607.5	636.8	649.9
165°	592.6	600.2	612.2	628.1	639.6
167.5°	602.8	609.7	616.1	624.1	631.0
170°	612.2	616.0	616.1	624.0	627.9
172.5°	615.3	622.2	619.2	620.9	624.7
175°	624.0	627.8	624.0	619.9	616.1
177.5°	624.0	627.0	624.0	623.9	620.8
180°	624.0	624.0	624.0	624.0	624.0

(END OF REPORT)