

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: P621856

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621856
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-100D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

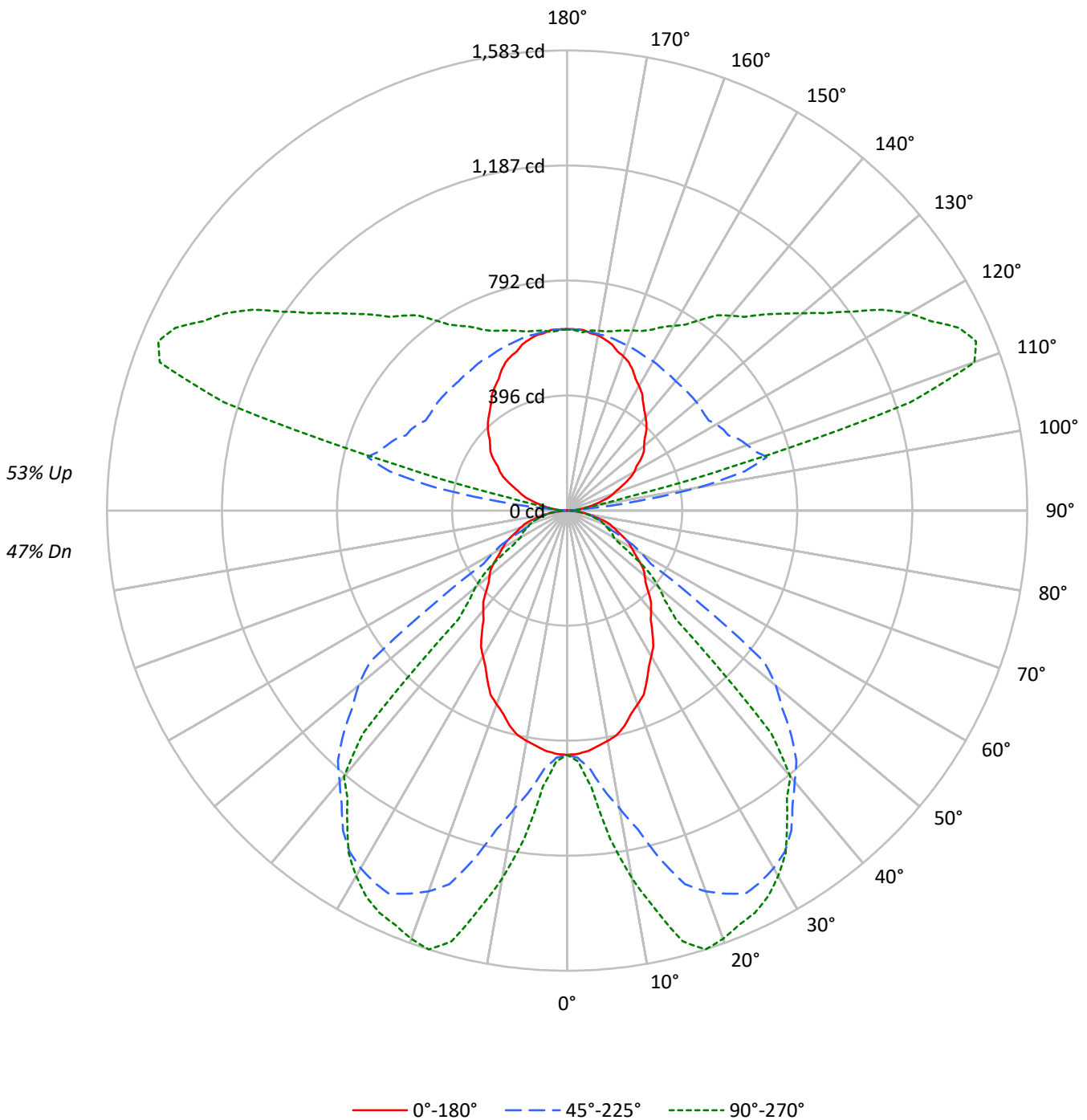
Lumens per Lamp: N/A
Luminaire Lumens: 6364.6 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.2
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	107	107	107	107	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	58	53	51	49	43	42	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	52	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°	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	1.4
10°-20°	334.1	5.3
20°-30°	565.9	8.9
30°-40°	686.5	10.8
40°-50°	604.3	9.5
50°-60°	373.9	5.9
60°-70°	202.7	3.2
70°-80°	115.5	1.8
80°-90°	39.2	0.6
90°-100°	76.7	1.2
100°-110°	546.7	8.6
110°-120°	742.1	11.7
120°-130°	604.0	9.5
130°-140°	485.8	7.6
140°-150°	383.0	6.0
150°-160°	280.1	4.4
160°-170°	173.9	2.7
170°-180°	59.3	0.9
0°-30°	990.7	15.6
0°-40°	1677.2	26.4
0°-60°	2655.5	41.7
0°-90°	3012.9	47.3
90°-120°	1365.5	21.5
90°-150°	2838.4	44.6
90°-180°	3352.0	52.7
0°-180°	6364.6	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	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°	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	17.0	16.6	14.6	13.3
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)