

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: P621894

Luminaire Tested: VLT-FB-150U-050D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621894
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-150U-050D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

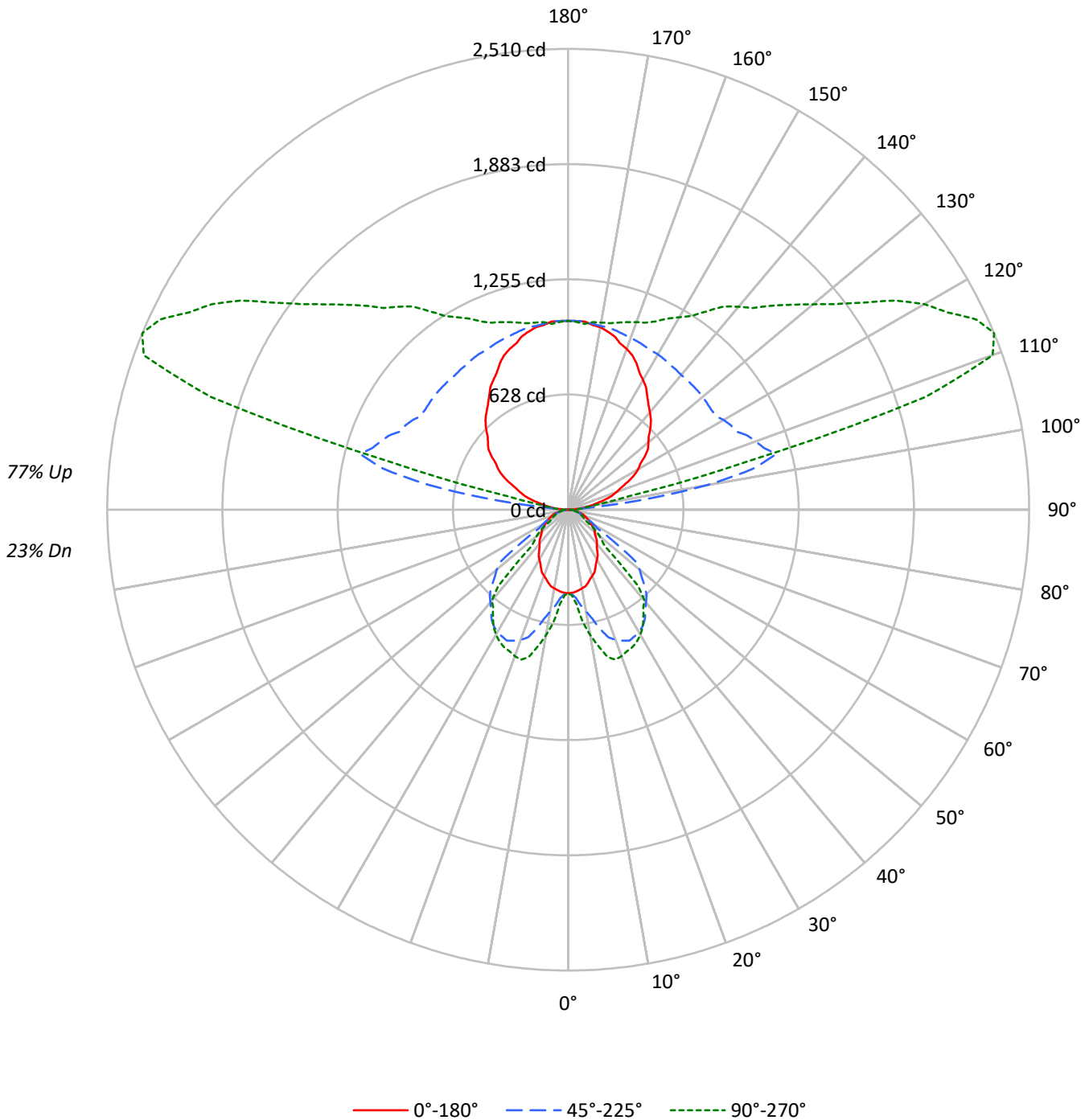
Lumens per Lamp: N/A
Luminaire Lumens: 7157.6 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63
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	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23				
1	92	88	84	81	82	78	75	73	60	58	56	43	42	41	28	27	27	20				
2	84	77	71	67	74	69	64	60	53	50	47	38	36	35	25	24	23	17				
3	77	68	61	56	68	61	55	50	47	43	40	34	32	30	22	21	20	15				
4	70	60	53	47	62	54	47	43	42	37	34	30	28	25	20	18	17	13				
5	64	53	46	40	57	48	41	36	37	33	29	27	24	22	18	16	15	11				
6	59	48	40	35	52	43	36	32	33	29	25	25	22	19	16	15	13	10				
7	55	43	35	30	48	39	32	28	30	26	22	22	19	17	15	13	12	9				
8	50	39	32	27	45	35	29	24	27	23	20	20	17	15	14	12	11	8				
9	47	35	28	23	42	32	26	21	25	21	17	19	16	13	13	11	9	7				
10	44	32	25	21	39	29	23	19	23	19	16	17	14	12	12	10	9	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3263	3263	3263
5°	3235	3468	3715
10°	3172	4101	5064
15°	3076	4998	6165
20°	2929	5759	6479
25°	2774	6227	6542
30°	2596	6371	6509
35°	2420	6371	6250
40°	2277	6172	6051
45°	2167	5983	2898
50°	2104	5665	2496
55°	2047	3792	1977
60°	1989	2308	1432
65°	1946	1757	1491
70°	1920	1532	1532
75°	1871	1589	1539
80°	1641	1603	1529
85°	1219	1671	1449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5983 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	0.7
10°-20°	180.8	2.5
20°-30°	306.2	4.3
30°-40°	371.5	5.2
40°-50°	327.0	4.6
50°-60°	202.3	2.8
60°-70°	109.7	1.5
70°-80°	62.5	0.9
80°-90°	22.7	0.3
90°-100°	126.5	1.8
100°-110°	901.3	12.6
110°-120°	1223.6	17.1
120°-130°	995.9	13.9
130°-140°	800.9	11.2
140°-150°	631.5	8.8
150°-160°	461.7	6.5
160°-170°	286.8	4.0
170°-180°	97.8	1.4
0°-30°	536.0	7.5
0°-40°	907.5	12.7
0°-60°	1436.8	20.1
0°-90°	1631.7	22.8
90°-120°	2251.3	31.5
90°-150°	4679.6	65.4
90°-180°	5526.0	77.2
0°-180°	7157.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	449	464	482	502	516	42
15°	414	477	673	796	830	116
25°	350	480	786	810	826	161
35°	276	444	727	717	714	173
45°	214	365	590	500	286	166
55°	164	255	303	175	158	146
65°	115	144	104	89	88	114
75°	68	59	57	56	56	70
85°	15	20	20	18	18	18
90°	0	6	13	19	19	3
95°	52	96	52	58	71	58
105°	201	308	1171	1496	990	212
115°	356	432	1009	2098	2452	353
125°	511	581	951	1663	1967	454
135°	634	704	958	1370	1572	488
145°	750	814	964	1193	1320	471
155°	880	912	983	1082	1132	404
165°	977	990	1009	1036	1055	274
175°	1029	1035	1029	1022	1016	97
180°	1029	1029	1029	1029	1029	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.7	454.7	454.7	454.7	454.7
2.5°	453.2	458.3	460.6	465.1	467.3
5°	449.1	463.6	481.5	502.1	515.7
7.5°	441.9	467.8	524.4	589.5	617.3
10°	435.3	470.5	562.8	657.0	695.0
12.5°	427.9	473.3	607.9	722.1	760.8
15°	414.0	477.3	672.8	795.6	829.9
17.5°	396.1	479.8	729.0	834.5	856.5
20°	383.5	480.2	754.1	839.4	848.4
22.5°	371.7	480.7	771.9	827.5	835.1
25°	350.3	479.5	786.5	809.9	826.2
27.5°	328.8	474.1	779.3	798.2	809.9
30°	313.3	468.7	768.9	784.6	785.5
32.5°	298.5	459.7	753.4	758.0	756.7
35°	276.3	444.4	727.3	717.1	713.5
37.5°	255.6	424.1	689.2	672.8	671.9
40°	243.1	409.3	658.9	643.3	646.0
42.5°	231.2	392.4	631.6	613.2	562.4
45°	213.5	365.3	589.6	499.7	285.6
47.5°	198.1	334.4	542.1	267.7	245.8
50°	188.5	313.2	507.4	235.4	223.6
52.5°	178.9	293.5	462.3	211.7	196.3
55°	163.6	254.8	303.1	175.2	158.0
57.5°	149.0	214.2	185.2	136.2	117.6
60°	138.6	190.1	160.8	109.8	99.8
62.5°	129.0	170.4	137.1	97.4	95.4
65°	114.6	143.5	103.5	88.7	87.8
67.5°	101.1	117.9	78.9	79.8	78.9
70°	91.5	99.6	73.0	73.9	73.0
72.5°	82.6	82.1	67.1	66.5	65.6
75°	67.5	59.3	57.3	56.4	55.5
77.5°	51.6	43.8	46.2	45.3	44.4
80°	39.7	37.0	38.8	37.9	37.0
82.5°	29.4	30.3	31.4	29.7	28.8
85°	14.8	20.2	20.3	18.5	17.6
87.5°	4.4	10.0	10.7	10.5	9.8
90°	0.0	6.3	12.9	19.4	19.4
92.5°	15.5	21.9	28.5	40.2	45.3
95°	51.8	96.0	51.8	58.5	71.2
97.5°	91.9	184.2	380.4	112.2	97.0
100°	122.9	230.5	763.4	224.7	148.8
102.5°	154.0	266.6	1032.6	593.0	324.8
105°	200.6	308.1	1171.0	1496.0	989.9
107.5°	247.1	328.1	1118.0	2177.2	2039.3
110°	278.2	354.1	1086.9	2287.7	2458.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	309.3	385.2	1055.9	2223.1	2510.3
115°	355.8	431.7	1009.3	2097.8	2452.0
117.5°	403.7	478.4	997.6	1962.2	2326.5
120°	439.9	509.5	976.9	1859.0	2238.5
122.5°	465.8	540.5	951.1	1770.3	2119.5
125°	511.1	580.7	951.1	1663.2	1966.8
127.5°	548.6	619.5	952.3	1538.9	1838.7
130°	569.3	645.3	957.5	1455.7	1740.4
132.5°	595.2	671.1	957.5	1418.3	1652.4
135°	634.0	703.6	957.5	1369.7	1572.2
137.5°	666.4	741.0	957.5	1316.0	1489.3
140°	692.3	761.9	957.5	1284.6	1442.8
142.5°	718.1	782.7	962.7	1248.1	1396.2
145°	750.5	813.8	964.0	1193.3	1319.8
147.5°	789.3	845.0	971.8	1153.8	1251.3
150°	815.2	865.8	976.9	1127.6	1209.8
152.5°	841.1	886.6	976.9	1106.6	1173.6
155°	879.9	911.5	983.4	1081.6	1132.2
157.5°	910.9	941.3	991.2	1065.8	1102.4
160°	931.6	957.0	996.3	1055.3	1086.9
162.5°	947.2	972.5	1001.5	1049.9	1071.4
165°	976.9	989.6	1009.3	1035.6	1054.6
167.5°	993.8	1005.1	1015.8	1029.0	1040.3
170°	1009.3	1015.6	1015.8	1028.8	1035.2
172.5°	1014.5	1025.8	1020.9	1023.7	1030.0
175°	1028.7	1035.0	1028.7	1022.1	1015.8
177.5°	1028.7	1033.8	1028.7	1028.6	1023.5
180°	1028.7	1028.7	1028.7	1028.7	1028.7

(END OF REPORT)