

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: P621899

Luminaire Tested: VLT-FB-150U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621899
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-075D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

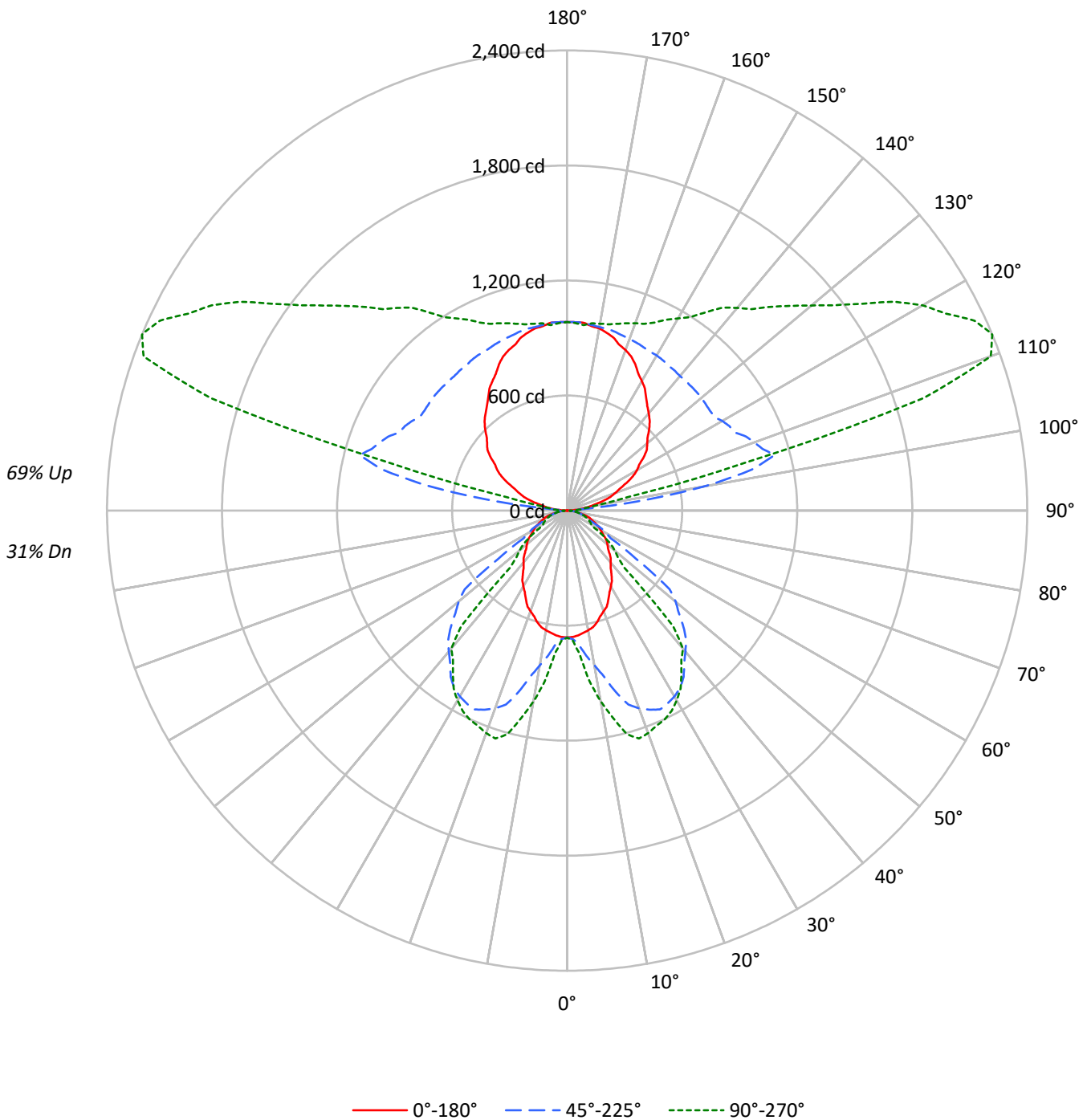
Lumens per Lamp: N/A
Luminaire Lumens: 7657.5 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 70.2
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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	33	27
2	86	79	73	68	77	71	66	62	57	53	51	43	41	39	31	30	29	23
3	78	70	63	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	62	54	49	64	56	49	45	45	40	37	35	31	29	25	23	22	17
5	66	55	47	42	59	50	43	38	40	35	32	31	28	25	23	21	19	15
6	61	49	42	36	54	45	38	33	36	31	28	28	25	22	21	18	17	14
7	56	44	37	31	50	40	34	29	33	28	24	25	22	20	19	17	15	12
8	52	40	33	28	47	37	30	26	30	25	21	23	20	17	17	15	13	11
9	48	37	29	25	43	33	27	23	27	22	19	21	18	16	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4749	4749	4749
5°	4709	5048	5407
10°	4617	5969	7370
15°	4477	7275	8974
20°	4263	8382	9430
25°	4036	9063	9521
30°	3778	9273	9474
35°	3523	9274	9097
40°	3314	8984	8807
45°	3153	8709	4218
50°	3063	8244	3634
55°	2979	5520	2878
60°	2896	3360	2085
65°	2832	2559	2170
70°	2795	2230	2230
75°	2723	2312	2237
80°	2389	2335	2223
85°	1770	2437	2108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 8709 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	0.9
10°-20°	263.1	3.4
20°-30°	445.7	5.8
30°-40°	540.7	7.1
40°-50°	475.9	6.2
50°-60°	294.5	3.8
60°-70°	159.7	2.1
70°-80°	91.0	1.2
80°-90°	32.0	0.4
90°-100°	120.9	1.6
100°-110°	861.8	11.3
110°-120°	1169.9	15.3
120°-130°	952.2	12.4
130°-140°	765.8	10.0
140°-150°	603.8	7.9
150°-160°	441.5	5.8
160°-170°	274.2	3.6
170°-180°	93.5	1.2
0°-30°	780.2	10.2
0°-40°	1320.9	17.2
0°-60°	2091.3	27.3
0°-90°	2373.9	31.0
90°-120°	2152.6	28.1
90°-150°	4474.4	58.4
90°-180°	5284.0	69.0
0°-180°	7657.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	654	675	701	731	751	62
15°	603	695	979	1158	1208	169
25°	510	698	1145	1179	1202	234
35°	402	647	1059	1044	1038	252
45°	311	532	858	727	416	241
55°	238	371	441	255	230	213
65°	167	209	151	129	128	166
75°	98	86	83	82	81	103
85°	22	29	30	27	26	26
90°	0	6	12	19	19	3
95°	50	92	50	56	68	55
105°	192	295	1120	1430	946	202
115°	340	413	965	2006	2344	338
125°	489	555	909	1590	1881	434
135°	606	673	916	1310	1503	466
145°	718	778	922	1141	1262	451
155°	841	872	940	1034	1083	386
165°	934	946	965	990	1008	262
175°	984	990	984	977	971	93
180°	984	984	984	984	984	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	661.8	661.8	661.8	661.8	661.8
2.5°	659.6	667.0	670.4	676.9	680.1
5°	653.7	674.8	700.8	730.8	750.6
7.5°	643.2	680.9	763.2	858.0	898.5
10°	633.6	684.8	819.2	956.3	1011.5
12.5°	622.8	688.8	884.8	1051.0	1107.3
15°	602.6	694.7	979.2	1157.9	1207.9
17.5°	576.5	698.3	1061.0	1214.6	1246.7
20°	558.2	699.0	1097.6	1221.7	1234.8
22.5°	541.0	699.6	1123.4	1204.4	1215.4
25°	509.8	697.9	1144.7	1178.9	1202.5
27.5°	478.6	690.1	1134.2	1161.8	1178.9
30°	456.0	682.2	1119.1	1142.0	1143.4
32.5°	434.5	669.1	1096.5	1103.2	1101.4
35°	402.2	646.8	1058.6	1043.7	1038.4
37.5°	372.1	617.2	1003.2	979.2	977.9
40°	353.8	595.8	959.1	936.3	940.2
42.5°	336.5	571.2	919.3	892.6	818.6
45°	310.7	531.7	858.2	727.4	415.6
47.5°	288.4	486.7	789.0	389.6	357.8
50°	274.4	455.9	738.5	342.6	325.5
52.5°	260.4	427.2	672.8	308.1	285.7
55°	238.1	370.9	441.2	255.0	230.0
57.5°	216.8	311.8	269.6	198.2	171.1
60°	201.8	276.7	234.1	159.7	145.3
62.5°	187.8	248.0	199.6	141.7	138.8
65°	166.8	208.9	150.7	129.1	127.8
67.5°	147.2	171.6	114.9	116.2	114.9
70°	133.2	145.0	106.3	107.6	106.3
72.5°	120.3	119.5	97.7	96.8	95.5
75°	98.2	86.4	83.4	82.0	80.7
77.5°	75.1	63.7	67.3	65.9	64.6
80°	57.8	53.9	56.5	55.1	53.8
82.5°	42.8	44.1	45.7	43.3	42.0
85°	21.5	29.4	29.6	26.9	25.6
87.5°	6.5	14.0	14.3	13.4	12.3
90°	0.0	6.0	12.4	18.6	18.6
92.5°	14.8	20.9	27.2	38.5	43.3
95°	49.5	91.8	49.5	56.0	68.0
97.5°	87.8	176.2	363.7	107.3	92.8
100°	117.5	220.4	730.0	214.9	142.3
102.5°	147.2	254.9	987.3	567.0	310.5
105°	191.8	294.6	1119.7	1430.4	946.5
107.5°	236.3	313.7	1069.0	2081.7	1949.9
110°	266.0	338.6	1039.3	2187.4	2350.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	295.7	368.3	1009.6	2125.6	2400.2
115°	340.2	412.8	965.0	2005.8	2344.5
117.5°	386.0	457.4	953.9	1876.1	2224.5
120°	420.7	487.2	934.1	1777.5	2140.4
122.5°	445.4	516.8	909.4	1692.7	2026.6
125°	488.7	555.2	909.4	1590.2	1880.6
127.5°	524.6	592.3	910.6	1471.4	1758.1
130°	544.4	617.0	915.5	1391.9	1664.1
132.5°	569.1	641.7	915.5	1356.1	1579.9
135°	606.2	672.8	915.5	1309.7	1503.2
137.5°	637.2	708.5	915.5	1258.3	1424.0
140°	661.9	728.5	915.5	1228.3	1379.5
142.5°	686.7	748.4	920.5	1193.4	1335.0
145°	717.6	778.1	921.7	1141.0	1262.0
147.5°	754.7	807.9	929.2	1103.2	1196.4
150°	779.5	827.8	934.1	1078.2	1156.8
152.5°	804.2	847.7	934.1	1058.0	1122.2
155°	841.3	871.6	940.3	1034.2	1082.6
157.5°	871.0	900.0	947.7	1019.0	1054.1
160°	890.8	915.0	952.7	1009.0	1039.3
162.5°	905.7	929.8	957.6	1003.9	1024.4
165°	934.1	946.2	965.0	990.2	1008.3
167.5°	950.2	961.1	971.2	983.8	994.7
170°	965.0	971.1	971.2	983.7	989.8
172.5°	970.0	980.9	976.2	978.8	984.8
175°	983.6	989.6	983.6	977.3	971.2
177.5°	983.6	988.4	983.6	983.5	978.6
180°	983.6	983.6	983.6	983.6	983.6

(END OF REPORT)