

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: P621890

Luminaire Tested: VLT-FB-150U-050D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621890
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-835-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

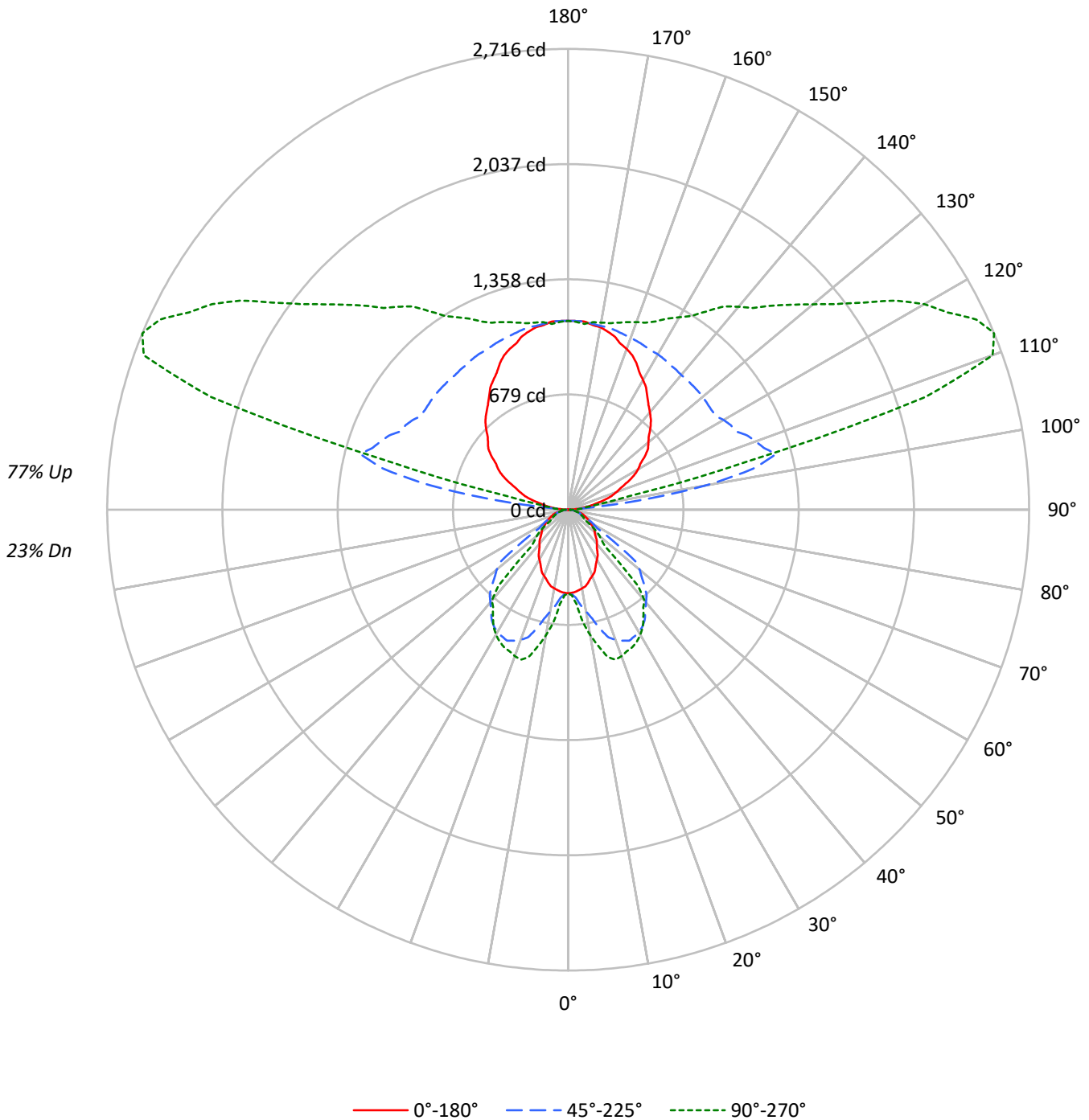
Lumens per Lamp: N/A
Luminaire Lumens: 7744.9 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	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°	3531	3531	3531
5°	3501	3753	4019
10°	3432	4438	5480
15°	3328	5408	6671
20°	3169	6231	7010
25°	3001	6738	7078
30°	2809	6894	7043
35°	2619	6894	6763
40°	2464	6679	6548
45°	2344	6475	3136
50°	2277	6129	2702
55°	2214	4104	2139
60°	2153	2497	1550
65°	2105	1902	1613
70°	2077	1658	1658
75°	2024	1719	1664
80°	1777	1736	1653
85°	1317	1811	1564

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6475 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	0.7
10°-20°	195.6	2.5
20°-30°	331.3	4.3
30°-40°	402.0	5.2
40°-50°	353.8	4.6
50°-60°	218.9	2.8
60°-70°	118.7	1.5
70°-80°	67.6	0.9
80°-90°	24.6	0.3
90°-100°	136.8	1.8
100°-110°	975.2	12.6
110°-120°	1324.0	17.1
120°-130°	1077.6	13.9
130°-140°	866.7	11.2
140°-150°	683.3	8.8
150°-160°	499.6	6.5
160°-170°	310.3	4.0
170°-180°	105.8	1.4
0°-30°	580.0	7.5
0°-40°	982.0	12.7
0°-60°	1554.7	20.1
0°-90°	1765.7	22.8
90°-120°	2436.0	31.5
90°-150°	5063.5	65.4
90°-180°	5979.0	77.2
0°-180°	7744.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	486	502	521	543	558	46
15°	448	516	728	861	898	125
25°	379	519	851	876	894	174
35°	299	481	787	776	772	187
45°	231	395	638	541	309	179
55°	177	276	328	190	171	158
65°	124	155	112	96	95	123
75°	73	64	62	61	60	76
85°	16	22	22	20	19	19
90°	0	7	14	21	21	3
95°	56	104	56	63	77	63
105°	217	333	1267	1619	1071	229
115°	385	467	1092	2270	2653	382
125°	553	628	1029	1800	2128	491
135°	686	761	1036	1482	1701	528
145°	812	880	1043	1291	1428	510
155°	952	986	1064	1170	1225	437
165°	1057	1071	1092	1121	1141	297
175°	1113	1120	1113	1106	1099	105
180°	1113	1113	1113	1113	1113	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	492.0	492.0	492.0	492.0	492.0
2.5°	490.4	495.9	498.4	503.3	505.6
5°	486.0	501.6	521.0	543.3	558.0
7.5°	478.2	506.2	567.4	637.9	668.0
10°	471.0	509.1	609.0	710.9	752.0
12.5°	463.0	512.1	657.8	781.4	823.2
15°	448.0	516.4	728.0	860.8	898.0
17.5°	428.6	519.1	788.8	902.9	926.8
20°	415.0	519.6	816.0	908.2	918.0
22.5°	402.2	520.1	835.2	895.4	903.6
25°	379.0	518.8	851.0	876.4	894.0
27.5°	355.8	513.0	843.2	863.7	876.4
30°	339.0	507.2	832.0	849.0	850.0
32.5°	323.0	497.4	815.2	820.2	818.8
35°	299.0	480.9	787.0	775.9	772.0
37.5°	276.6	458.9	745.8	728.0	727.0
40°	263.0	442.9	713.0	696.1	699.0
42.5°	250.2	424.6	683.4	663.6	608.6
45°	231.0	395.3	638.0	540.7	309.0
47.5°	214.4	361.8	586.6	289.7	266.0
50°	204.0	338.9	549.0	254.7	242.0
52.5°	193.6	317.6	500.2	229.0	212.4
55°	177.0	275.8	328.0	189.6	171.0
57.5°	161.2	231.8	200.4	147.3	127.2
60°	150.0	205.7	174.0	118.8	108.0
62.5°	139.6	184.4	148.4	105.4	103.2
65°	124.0	155.3	112.0	96.0	95.0
67.5°	109.4	127.6	85.4	86.4	85.4
70°	99.0	107.8	79.0	80.0	79.0
72.5°	89.4	88.8	72.6	72.0	71.0
75°	73.0	64.2	62.0	61.0	60.0
77.5°	55.8	47.4	50.0	49.0	48.0
80°	43.0	40.1	42.0	41.0	40.0
82.5°	31.8	32.8	34.0	32.2	31.2
85°	16.0	21.9	22.0	20.0	19.0
87.5°	4.8	10.9	11.6	11.4	10.6
90°	0.0	6.8	14.0	21.0	21.0
92.5°	16.8	23.6	30.8	43.5	49.0
95°	56.0	103.9	56.0	63.3	77.0
97.5°	99.4	199.3	411.6	121.4	105.0
100°	133.0	249.4	826.1	243.2	161.0
102.5°	166.6	288.5	1117.3	641.7	351.4
105°	217.0	333.4	1267.1	1618.7	1071.1
107.5°	267.4	355.0	1209.7	2355.8	2206.6
110°	301.0	383.2	1176.1	2475.4	2660.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	334.6	416.8	1142.5	2405.5	2716.2
115°	385.0	467.2	1092.1	2269.9	2653.2
117.5°	436.8	517.6	1079.5	2123.1	2517.4
120°	476.0	551.3	1057.1	2011.5	2422.2
122.5°	504.0	584.8	1029.1	1915.6	2293.4
125°	553.0	628.3	1029.1	1799.6	2128.2
127.5°	593.7	670.3	1030.5	1665.1	1989.6
130°	616.1	698.2	1036.1	1575.1	1883.2
132.5°	644.1	726.2	1036.1	1534.7	1788.0
135°	686.1	761.4	1036.1	1482.1	1701.2
137.5°	721.1	801.8	1036.1	1424.0	1611.5
140°	749.1	824.4	1036.1	1390.0	1561.1
142.5°	777.1	846.9	1041.7	1350.6	1510.7
145°	812.1	880.5	1043.1	1291.2	1428.1
147.5°	854.1	914.3	1051.5	1248.5	1353.9
150°	882.1	936.8	1057.1	1220.1	1309.1
152.5°	910.1	959.4	1057.1	1197.4	1269.9
155°	952.1	986.3	1064.1	1170.3	1225.1
157.5°	985.7	1018.5	1072.5	1153.2	1192.9
160°	1008.1	1035.5	1078.1	1141.9	1176.1
162.5°	1024.9	1052.3	1083.7	1136.0	1159.3
165°	1057.1	1070.8	1092.1	1120.6	1141.1
167.5°	1075.3	1087.6	1099.1	1113.4	1125.7
170°	1092.1	1098.9	1099.1	1113.3	1120.1
172.5°	1097.7	1110.0	1104.7	1107.7	1114.5
175°	1113.1	1119.9	1113.1	1105.9	1099.1
177.5°	1113.1	1118.6	1113.1	1113.0	1107.5
180°	1113.1	1113.1	1113.1	1113.1	1113.1

(END OF REPORT)