

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: P621896

Luminaire Tested: VLT-FB-150U-075D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621896
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-835-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

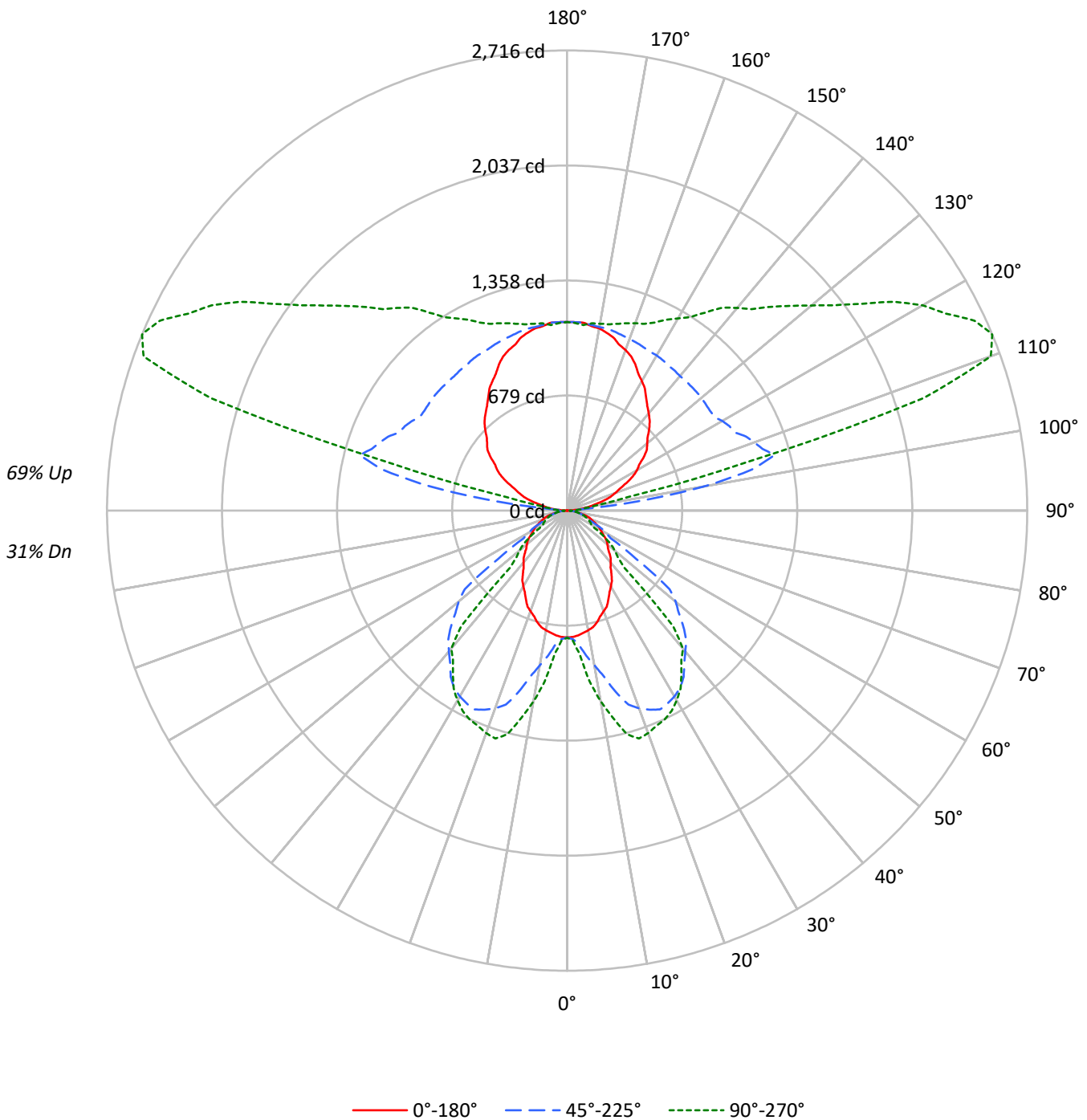
Lumens per Lamp: N/A
Luminaire Lumens: 8665.6 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	5374	5374	5374
5°	5329	5713	6119
10°	5225	6755	8341
15°	5067	8233	10156
20°	4824	9485	10671
25°	4568	10257	10775
30°	4276	10494	10721
35°	3987	10495	10295
40°	3750	10167	9967
45°	3568	9856	4774
50°	3466	9330	4113
55°	3370	6247	3257
60°	3277	3802	2359
65°	3206	2895	2455
70°	3162	2524	2524
75°	3080	2617	2531
80°	2707	2641	2517
85°	2009	2758	2379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	0.9
10°-20°	297.8	3.4
20°-30°	504.4	5.8
30°-40°	611.9	7.1
40°-50°	538.6	6.2
50°-60°	333.3	3.8
60°-70°	180.7	2.1
70°-80°	102.9	1.2
80°-90°	36.2	0.4
90°-100°	136.8	1.6
100°-110°	975.2	11.3
110°-120°	1324.0	15.3
120°-130°	1077.6	12.4
130°-140°	866.7	10.0
140°-150°	683.3	7.9
150°-160°	499.6	5.8
160°-170°	310.3	3.6
170°-180°	105.8	1.2
0°-30°	882.9	10.2
0°-40°	1494.8	17.2
0°-60°	2366.6	27.3
0°-90°	2686.4	31.0
90°-120°	2436.0	28.1
90°-150°	5063.5	58.4
90°-180°	5979.0	69.0
0°-180°	8665.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	740	764	793	827	849	70
15°	682	786	1108	1310	1367	191
25°	577	790	1295	1334	1361	265
35°	455	732	1198	1181	1175	285
45°	352	602	971	823	470	273
55°	269	420	499	289	260	241
65°	189	236	170	146	145	187
75°	111	98	94	93	91	116
85°	24	33	34	30	29	30
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	



TEST NUMBER: P621896

CATALOG NUMBER: VLT-FB-150U-075D-835-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.9	748.9	748.9	748.9	748.9
2.5°	746.5	754.8	758.7	766.1	769.6
5°	739.8	763.6	793.1	827.1	849.4
7.5°	727.9	770.5	863.7	971.0	1016.8
10°	717.0	775.0	927.0	1082.2	1144.7
12.5°	704.8	779.5	1001.3	1189.4	1253.1
15°	682.0	786.1	1108.2	1310.4	1367.0
17.5°	652.4	790.2	1200.7	1374.5	1410.8
20°	631.7	791.0	1242.1	1382.5	1397.4
22.5°	612.2	791.7	1271.4	1363.0	1375.5
25°	576.9	789.8	1295.4	1334.1	1360.9
27.5°	541.6	780.9	1283.5	1314.7	1334.1
30°	516.0	772.0	1266.5	1292.4	1293.9
32.5°	491.7	757.2	1240.9	1248.5	1246.4
35°	455.1	732.0	1198.0	1181.1	1175.2
37.5°	421.0	698.5	1135.3	1108.1	1106.7
40°	400.3	674.2	1085.3	1059.6	1064.0
42.5°	380.9	646.4	1040.3	1010.1	926.4
45°	351.6	601.7	971.2	823.1	470.4
47.5°	326.4	550.8	892.9	440.9	404.9
50°	310.5	515.9	835.7	387.7	368.4
52.5°	294.7	483.4	761.4	348.6	323.3
55°	269.4	419.8	499.3	288.6	260.3
57.5°	245.4	352.8	305.1	224.3	193.6
60°	228.3	313.2	264.9	180.8	164.4
62.5°	212.5	280.7	225.9	160.4	157.1
65°	188.8	236.4	170.5	146.1	144.6
67.5°	166.5	194.2	130.0	131.5	130.0
70°	150.7	164.1	120.3	121.7	120.3
72.5°	136.1	135.2	110.5	109.6	108.1
75°	111.1	97.7	94.4	92.8	91.3
77.5°	84.9	72.1	76.1	74.6	73.1
80°	65.5	61.0	63.9	62.4	60.9
82.5°	48.4	49.9	51.8	49.0	47.5
85°	24.4	33.3	33.5	30.4	28.9
87.5°	7.3	15.8	16.2	15.1	13.9
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



TEST NUMBER: P621896

CATALOG NUMBER: VLT-FB-150U-075D-835-UNV-STD-W-4

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)