

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: P621875

Luminaire Tested: VLT-FB-125U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621875
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-125U-075D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

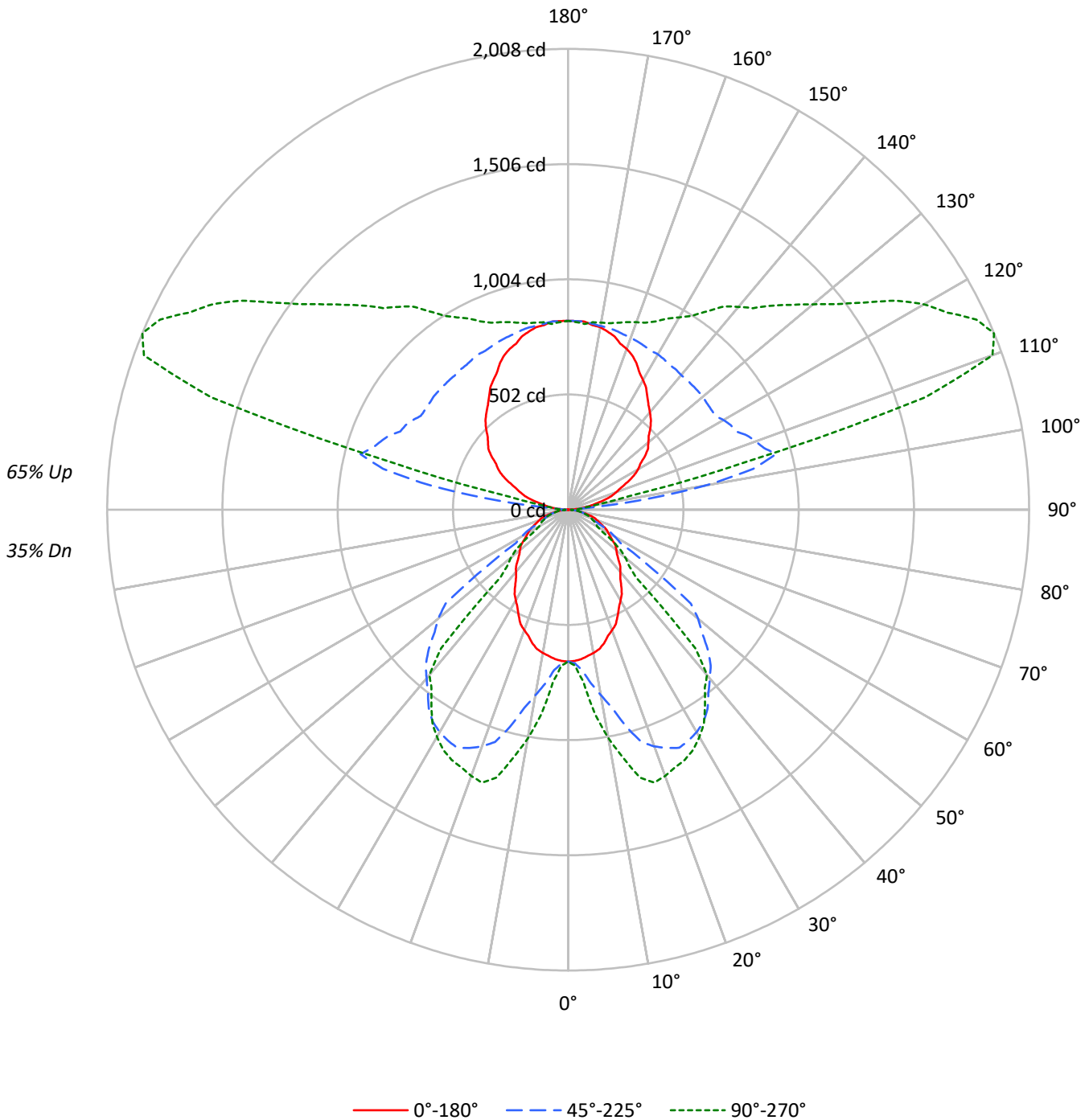
Lumens per Lamp: N/A
Luminaire Lumens: 6793.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35				
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	36	30				
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	31	26				
3	79	70	63	58	71	64	58	53	52	48	44	41	38	36	30	29	27	23				
4	73	62	55	49	65	57	50	45	46	42	38	37	33	31	27	25	24	20				
5	67	56	48	42	60	51	44	39	41	37	33	33	29	27	25	23	21	17				
6	61	50	42	37	55	46	39	34	37	32	29	30	26	23	23	20	18	15				
7	57	45	37	32	51	41	34	30	34	29	25	27	23	21	21	18	16	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	21	18	19	16	15	12				
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	17	15	13	11				
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10				

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	1.1
10°-20°	263.1	3.9
20°-30°	445.7	6.6
30°-40°	540.7	8.0
40°-50°	475.9	7.0
50°-60°	294.5	4.3
60°-70°	159.7	2.4
70°-80°	91.0	1.3
80°-90°	31.6	0.5
90°-100°	101.2	1.5
100°-110°	720.8	10.6
110°-120°	978.6	14.4
120°-130°	796.5	11.7
130°-140°	640.6	9.4
140°-150°	505.0	7.4
150°-160°	369.3	5.4
160°-170°	229.4	3.4
170°-180°	78.2	1.2
0°-30°	780.2	11.5
0°-40°	1320.9	19.4
0°-60°	2091.3	30.8
0°-90°	2373.5	34.9
90°-120°	1800.6	26.5
90°-150°	3742.6	55.1
90°-180°	4419.0	65.1
0°-180°	6793.0	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	5	10	16	16	3
95°	41	77	41	47	57	46
105°	160	246	937	1196	792	169
115°	285	345	807	1678	1961	283
125°	409	464	761	1330	1573	363
135°	507	563	766	1096	1257	390
145°	600	651	771	954	1056	377
155°	704	729	786	865	906	323
165°	781	792	807	828	843	219
175°	823	828	823	817	812	78
180°	823	823	823	823	823	



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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	13.8	13.9	12.8	11.7
90°	0.0	5.1	10.3	15.5	15.5
92.5°	12.4	17.5	22.8	32.2	36.2
95°	41.4	76.8	41.4	46.8	56.9
97.5°	73.5	147.3	304.3	89.8	77.6
100°	98.3	184.3	610.6	179.7	119.0
102.5°	123.2	213.2	825.8	474.3	259.8
105°	160.4	246.4	936.6	1196.4	791.7
107.5°	197.7	262.4	894.1	1741.3	1631.0
110°	222.5	283.2	869.3	1829.7	1966.3



TEST NUMBER: P621875

CATALOG NUMBER: VLT-FB-125U-075D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.3	308.0	844.5	1778.0	2007.7
115°	284.6	345.3	807.2	1677.8	1961.1
117.5°	322.9	382.6	797.9	1569.3	1860.7
120°	351.9	407.5	781.3	1486.8	1790.3
122.5°	372.6	432.3	760.6	1415.9	1695.1
125°	408.8	464.4	760.6	1330.2	1573.0
127.5°	438.8	495.5	761.7	1230.8	1470.6
130°	455.3	516.1	765.8	1164.2	1391.9
132.5°	476.0	536.8	765.8	1134.3	1321.5
135°	507.1	562.7	765.8	1095.5	1257.4
137.5°	533.0	592.7	765.8	1052.5	1191.1
140°	553.7	609.3	765.8	1027.4	1153.9
142.5°	574.4	626.0	770.0	998.2	1116.6
145°	600.2	650.8	771.0	954.4	1055.6
147.5°	631.3	675.8	777.2	922.8	1000.7
150°	652.0	692.5	781.3	901.8	967.6
152.5°	672.7	709.1	781.3	885.0	938.6
155°	703.7	729.0	786.5	865.0	905.5
157.5°	728.6	752.8	792.7	852.4	881.7
160°	745.1	765.4	796.9	844.0	869.3
162.5°	757.5	777.8	801.0	839.7	856.9
165°	781.3	791.5	807.2	828.3	843.4
167.5°	794.8	803.9	812.4	822.9	832.0
170°	807.2	812.3	812.4	822.8	827.9
172.5°	811.3	820.5	816.5	818.7	823.8
175°	822.7	827.8	822.7	817.4	812.4
177.5°	822.7	826.8	822.7	822.6	818.6
180°	822.7	822.7	822.7	822.7	822.7

(END OF REPORT)