

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: P621779

Luminaire Tested: VLT-FB-050U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621779
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-050U-075D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

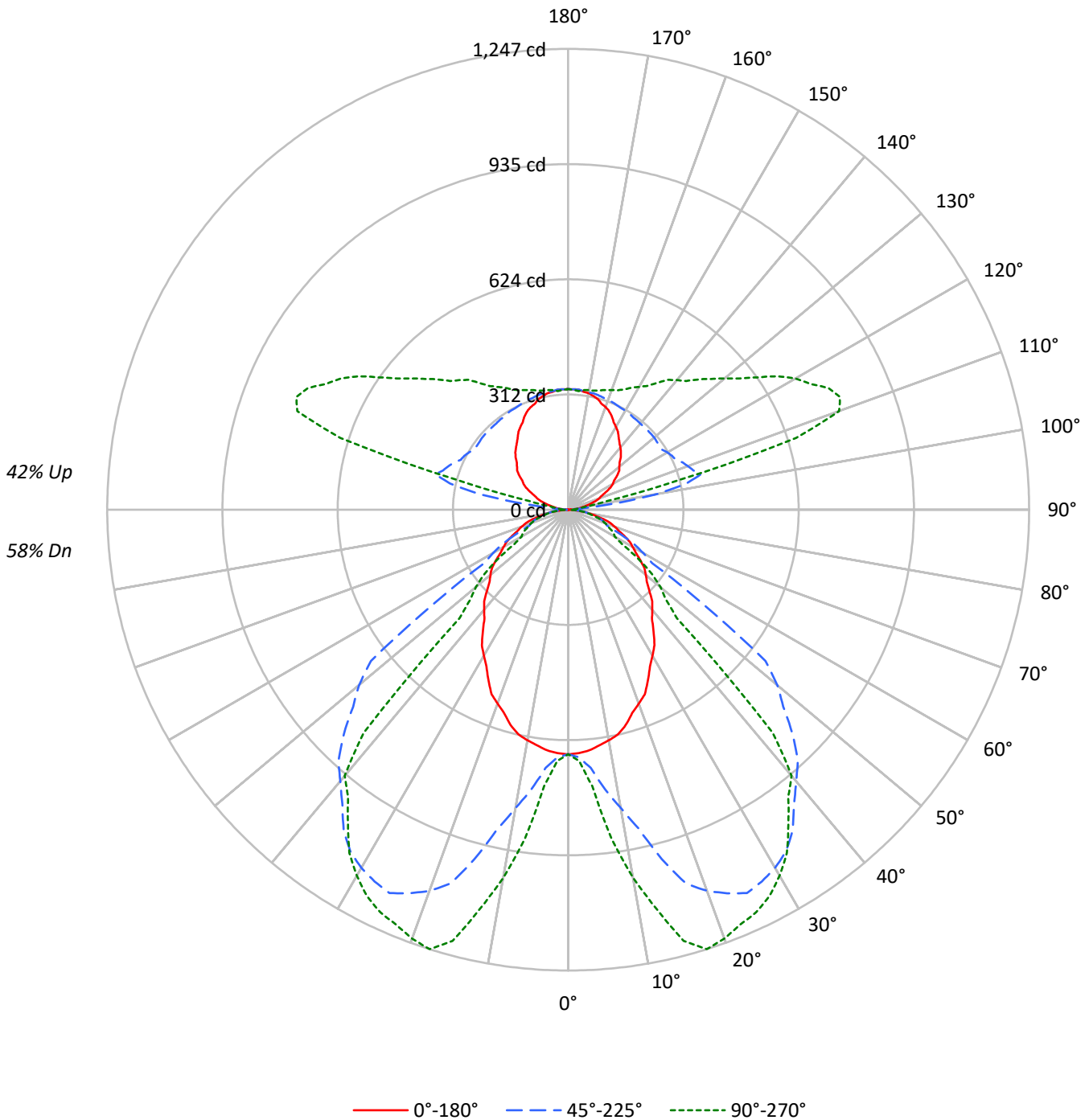
Lumens per Lamp: N/A
Luminaire Lumens: 4124.9 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.2
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									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58																			
1	100	96	92	89	93	90	87	84	78	75	73	67	65	64	57	56	55	50																			
2	92	85	79	74	85	79	74	70	69	65	62	60	57	54	51	49	47	43																			
3	84	75	68	62	78	70	64	59	61	57	53	53	50	47	46	43	41	37																			
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	41	38	36	32																			
5	71	60	52	46	66	56	49	44	50	44	40	43	39	35	37	34	31	28																			
6	66	54	46	40	61	51	44	38	45	39	35	39	35	31	34	31	28	25																			
7	61	49	41	35	57	46	39	34	41	35	31	36	31	28	31	28	25	22																			
8	56	44	37	31	53	42	35	30	37	31	27	33	28	25	29	25	22	20																			
9	53	40	33	28	49	38	32	27	34	29	25	30	26	22	26	23	20	18																			
10	49	37	30	25	46	35	29	24	31	26	22	28	23	20	24	21	18	16																			

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	1.7
10°-20°	263.1	6.4
20°-30°	445.7	10.8
30°-40°	540.7	13.1
40°-50°	475.9	11.5
50°-60°	294.5	7.1
60°-70°	159.7	3.9
70°-80°	91.0	2.2
80°-90°	30.5	0.7
90°-100°	40.1	1.0
100°-110°	285.8	6.9
110°-120°	388.0	9.4
120°-130°	315.8	7.7
130°-140°	254.0	6.2
140°-150°	200.3	4.9
150°-160°	146.4	3.5
160°-170°	90.9	2.2
170°-180°	31.0	0.8
0°-30°	780.2	18.9
0°-40°	1320.9	32.0
0°-60°	2091.3	50.7
0°-90°	2372.4	57.5
90°-120°	714.0	17.3
90°-150°	1484.1	36.0
90°-180°	1752.0	42.5
0°-180°	4124.9	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	2	4	6	6	2
95°	16	30	16	19	23	18
105°	64	98	371	474	314	67
115°	113	137	320	665	778	112
125°	162	184	302	528	624	144
135°	201	223	304	434	499	155
145°	238	258	306	378	419	149
155°	279	289	312	343	359	128
165°	310	314	320	328	334	87
175°	326	328	326	324	322	31
180°	326	326	326	326	326	



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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	13.2	12.7	10.9	9.8
90°	0.0	2.0	4.1	6.2	6.2
92.5°	4.9	6.9	9.0	12.8	14.4
95°	16.4	30.5	16.4	18.6	22.6
97.5°	29.1	58.4	120.6	35.6	30.8
100°	39.0	73.1	242.1	71.3	47.2
102.5°	48.8	84.5	327.5	188.1	103.0
105°	63.6	97.7	371.4	474.4	313.9
107.5°	78.4	104.1	354.6	690.5	646.7
110°	88.2	112.3	344.7	725.5	779.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	98.1	122.2	334.9	705.0	796.1
115°	112.9	136.9	320.1	665.3	777.6
117.5°	128.0	151.7	316.4	622.3	737.8
120°	139.5	161.6	309.8	589.6	709.9
122.5°	147.7	171.4	301.6	561.4	672.2
125°	162.1	184.2	301.6	527.5	623.8
127.5°	174.0	196.5	302.0	488.0	583.1
130°	180.6	204.6	303.7	461.7	551.9
132.5°	188.8	212.8	303.7	449.8	524.0
135°	201.1	223.1	303.7	434.4	498.6
137.5°	211.3	235.0	303.7	417.4	472.3
140°	219.5	241.6	303.7	407.4	457.6
142.5°	227.8	248.2	305.3	395.8	442.8
145°	238.0	258.1	305.7	378.4	418.6
147.5°	250.3	268.0	308.2	365.9	396.8
150°	258.5	274.6	309.8	357.6	383.7
152.5°	266.7	281.2	309.8	350.9	372.2
155°	279.0	289.1	311.9	343.0	359.1
157.5°	288.9	298.5	314.3	338.0	349.6
160°	295.5	303.5	316.0	334.7	344.7
162.5°	300.4	308.4	317.6	333.0	339.8
165°	309.8	313.8	320.1	328.4	334.4
167.5°	315.2	318.8	322.1	326.3	329.9
170°	320.1	322.1	322.1	326.3	328.3
172.5°	321.7	325.3	323.8	324.6	326.7
175°	326.2	328.2	326.2	324.1	322.1
177.5°	326.2	327.8	326.2	326.2	324.6
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)