

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: P621791

Luminaire Tested: VLT-FB-050U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621791
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-125D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

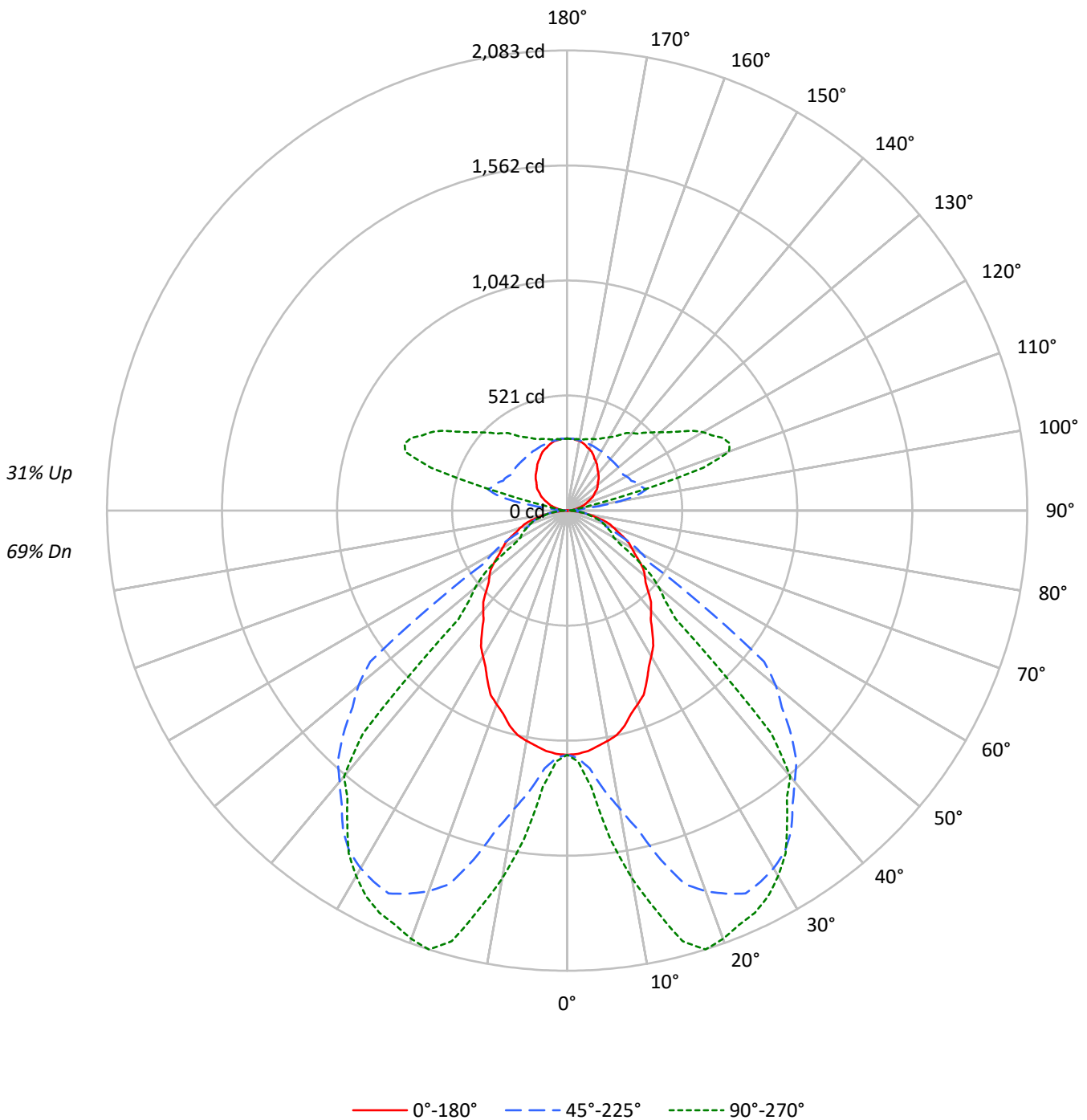
Lumens per Lamp: N/A
Luminaire Lumens: 5715.6 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 53.3
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69				
1	103	99	95	92	97	94	90	87	84	81	79	75	73	71	67	65	64	60				
2	94	87	81	76	89	83	78	73	75	70	67	67	64	61	60	57	55	52				
3	87	78	70	65	82	74	67	62	66	61	57	60	56	53	54	51	48	45				
4	80	69	61	55	75	66	59	53	60	54	50	54	49	46	48	45	42	39				
5	74	62	54	48	69	59	52	46	54	48	43	49	44	40	44	40	37	34				
6	68	56	48	42	64	53	46	41	49	43	38	44	39	35	40	36	33	30				
7	63	51	43	37	60	48	41	36	44	38	34	40	35	31	37	32	29	27				
8	59	46	38	33	55	44	37	32	40	34	30	37	32	28	34	29	26	24				
9	55	42	35	30	52	41	34	29	37	31	27	34	29	25	31	27	24	22				
10	51	39	32	27	48	37	31	26	34	28	24	31	26	23	29	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7934	7934	7934
5°	7868	8434	9033
10°	7713	9973	12314
15°	7480	12155	14993
20°	7123	14004	15755
25°	6744	15143	15908
30°	6313	15493	15829
35°	5887	15494	15199
40°	5537	15011	14715
45°	5268	14551	7047
50°	5119	13774	6072
55°	4977	9222	4808
60°	4838	5612	3483
65°	4732	4274	3625
70°	4668	3724	3724
75°	4550	3862	3737
80°	3992	3901	3715
85°	2964	4067	3516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14551 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	2.1
10°-20°	439.6	7.7
20°-30°	744.6	13.0
30°-40°	903.3	15.8
40°-50°	795.1	13.9
50°-60°	492.0	8.6
60°-70°	266.7	4.7
70°-80°	152.0	2.7
80°-90°	50.4	0.9
90°-100°	40.1	0.7
100°-110°	285.8	5.0
110°-120°	388.0	6.8
120°-130°	315.8	5.5
130°-140°	254.0	4.4
140°-150°	200.3	3.5
150°-160°	146.4	2.6
160°-170°	90.9	1.6
170°-180°	31.0	0.5
0°-30°	1303.5	22.8
0°-40°	2206.9	38.6
0°-60°	3494.0	61.1
0°-90°	3963.1	69.3
90°-120°	714.0	12.5
90°-150°	1484.1	26.0
90°-180°	1752.0	30.7
0°-180°	5715.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1092	1127	1171	1221	1254	103
15°	1007	1161	1636	1935	2018	282
25°	852	1166	1912	1970	2009	391
35°	672	1081	1769	1744	1735	421
45°	519	888	1434	1215	694	403
55°	398	620	737	426	384	356
65°	279	349	252	216	214	277
75°	164	144	139	137	135	171
85°	36	49	49	45	43	44
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°	1105.7	1105.7	1105.7	1105.7	1105.7
2.5°	1102.1	1114.4	1120.1	1131.0	1136.3
5°	1092.2	1127.4	1170.9	1221.1	1254.0
7.5°	1074.7	1137.5	1275.1	1433.6	1501.2
10°	1058.5	1144.2	1368.6	1597.7	1690.0
12.5°	1040.5	1150.8	1478.3	1756.0	1850.0
15°	1006.8	1160.6	1636.1	1934.6	2018.1
17.5°	963.2	1166.7	1772.7	2029.2	2082.8
20°	932.7	1167.8	1833.8	2041.1	2063.1
22.5°	903.9	1168.9	1877.0	2012.3	2030.7
25°	851.7	1166.0	1912.5	1969.6	2009.1
27.5°	799.6	1153.0	1895.0	1941.0	1969.6
30°	761.9	1139.8	1869.8	1908.1	1910.3
32.5°	725.9	1117.9	1832.0	1843.2	1840.1
35°	672.0	1080.7	1768.7	1743.7	1735.0
37.5°	621.6	1031.2	1676.1	1636.0	1633.8
40°	591.1	995.4	1602.4	1564.3	1570.9
42.5°	562.3	954.3	1535.8	1491.2	1367.7
45°	519.1	888.3	1433.8	1215.2	694.4
47.5°	481.8	813.2	1318.3	651.0	597.8
50°	458.5	761.7	1233.8	572.4	543.9
52.5°	435.1	713.7	1124.1	514.7	477.3
55°	397.8	619.7	737.1	426.0	384.3
57.5°	362.3	520.9	450.4	331.1	285.9
60°	337.1	462.4	391.0	266.9	242.7
62.5°	313.7	414.4	333.5	236.8	231.9
65°	278.7	349.0	251.7	215.7	213.5
67.5°	245.9	286.7	191.9	194.1	191.9
70°	222.5	242.3	177.5	179.7	177.5
72.5°	200.9	199.6	163.2	161.8	159.6
75°	164.1	144.3	139.3	137.0	134.8
77.5°	125.4	106.5	112.4	110.1	107.9
80°	96.6	90.0	94.4	92.1	89.9
82.5°	71.5	73.7	76.4	72.3	70.1
85°	36.0	49.1	49.4	44.9	42.7
87.5°	10.8	21.7	20.6	17.4	15.6
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)