

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: P621767

Luminaire Tested: VLT-FB-025U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621767
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-025U-125D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

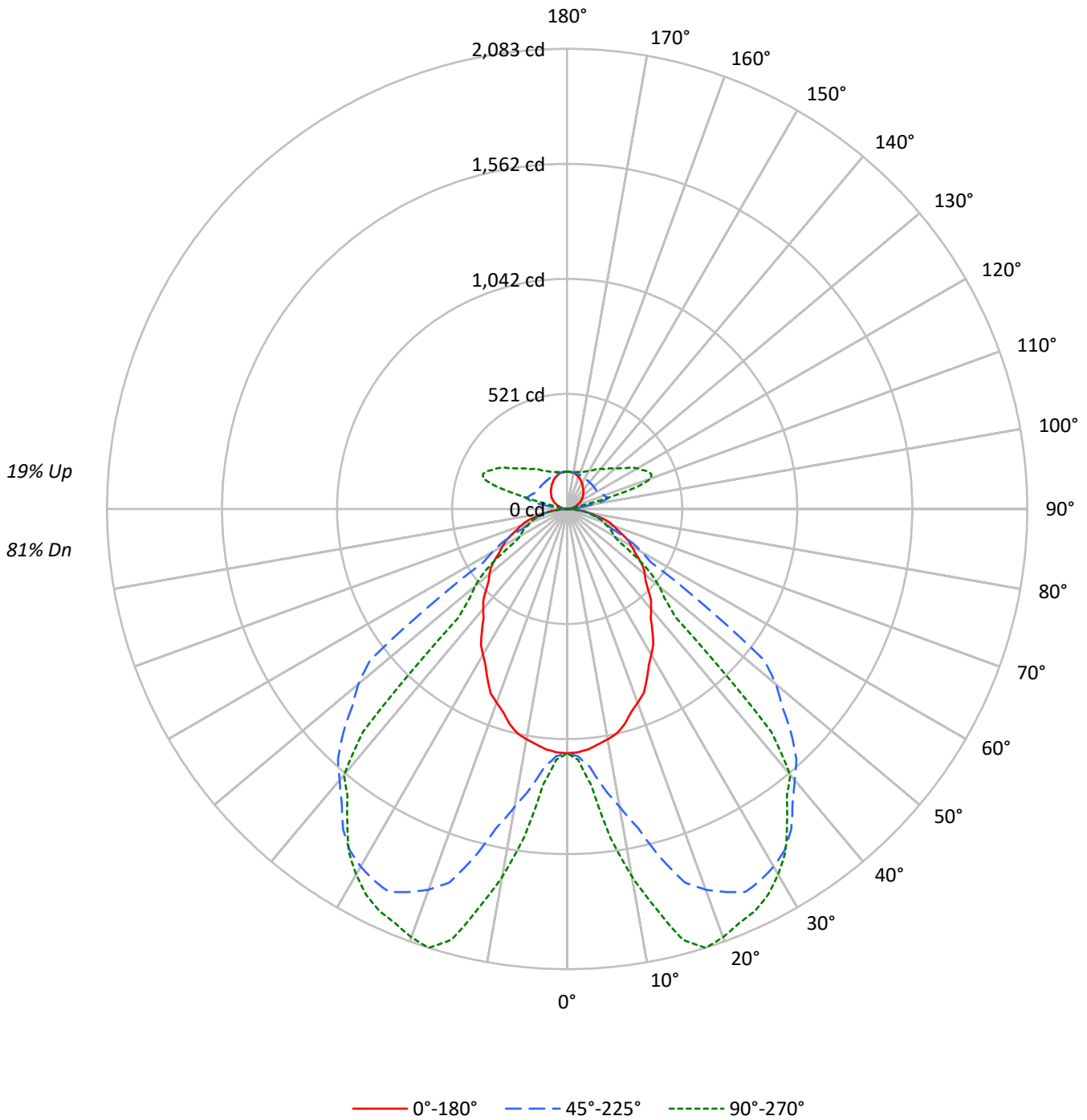
Lumens per Lamp: N/A
Luminaire Lumens: 4870.8 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 47
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			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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	81
1	106	102	98	95	101	98	94	91	90	87	85	83	81	79	77	75	74	71
2	97	90	84	79	93	87	81	77	80	76	72	74	71	68	69	66	64	61
3	89	80	73	67	85	77	71	65	72	66	62	66	62	59	62	58	55	53
4	82	72	64	58	79	69	62	56	64	58	54	60	55	51	56	52	48	46
5	76	64	56	50	73	62	55	49	58	52	47	54	49	45	51	46	43	40
6	70	58	50	44	67	56	49	43	53	46	41	49	44	40	46	41	38	36
7	65	53	45	39	62	51	44	38	48	41	37	45	39	35	42	37	34	32
8	61	48	40	35	58	47	39	34	44	37	33	41	36	32	39	34	30	28
9	57	44	36	31	54	43	36	31	40	34	30	38	32	28	36	31	27	26
10	53	41	33	28	51	39	32	28	37	31	27	35	30	26	33	28	25	23

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	2.4
10°-20°	439.6	9.0
20°-30°	744.6	15.3
30°-40°	903.3	18.5
40°-50°	795.1	16.3
50°-60°	492.0	10.1
60°-70°	266.7	5.5
70°-80°	152.0	3.1
80°-90°	50.1	1.0
90°-100°	20.8	0.4
100°-110°	148.1	3.0
110°-120°	201.1	4.1
120°-130°	163.6	3.4
130°-140°	131.6	2.7
140°-150°	103.8	2.1
150°-160°	75.9	1.6
160°-170°	47.1	1.0
170°-180°	16.1	0.3
0°-30°	1303.5	26.8
0°-40°	2206.9	45.3
0°-60°	3494.0	71.7
0°-90°	3962.7	81.4
90°-120°	369.9	7.6
90°-150°	769.0	15.8
90°-180°	908.0	18.6
0°-180°	4870.8	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	1	2	3	3	2
95°	8	16	8	10	12	10
105°	33	51	192	246	163	35
115°	58	71	166	345	403	58
125°	84	95	156	273	323	75
135°	104	116	157	225	258	80
145°	123	134	158	196	217	77
155°	145	150	162	178	186	66
165°	160	163	166	170	173	45
175°	169	170	169	168	167	16
180°	169	169	169	169	169	

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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	21.5	20.2	16.8	15.0
90°	0.0	1.0	2.1	3.2	3.2
92.5°	2.6	3.6	4.7	6.6	7.4
95°	8.5	15.8	8.5	9.6	11.7
97.5°	15.1	30.3	62.5	18.4	15.9
100°	20.2	37.9	125.5	36.9	24.5
102.5°	25.3	43.8	169.7	97.4	53.4
105°	33.0	50.6	192.4	245.8	162.7
107.5°	40.6	53.9	183.7	357.8	335.1
110°	45.7	58.2	178.6	375.9	404.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.8	63.3	173.5	365.3	412.5
115°	58.5	70.9	165.9	344.7	402.9
117.5°	66.3	78.6	163.9	322.4	382.3
120°	72.3	83.7	160.5	305.5	367.9
122.5°	76.5	88.8	156.3	290.9	348.3
125°	84.0	95.4	156.3	273.3	323.2
127.5°	90.2	101.8	156.5	252.9	302.2
130°	93.6	106.0	157.4	239.2	286.0
132.5°	97.8	110.3	157.4	233.1	271.5
135°	104.2	115.6	157.4	225.1	258.4
137.5°	109.5	121.8	157.4	216.3	244.7
140°	113.8	125.2	157.4	211.1	237.1
142.5°	118.0	128.6	158.2	205.1	229.4
145°	123.3	133.7	158.4	196.1	216.9
147.5°	129.7	138.9	159.7	189.6	205.6
150°	134.0	142.3	160.5	185.3	198.8
152.5°	138.2	145.7	160.5	181.8	192.9
155°	144.6	149.8	161.6	177.7	186.1
157.5°	149.7	154.7	162.9	175.1	181.2
160°	153.1	157.3	163.7	173.4	178.6
162.5°	155.7	159.8	164.6	172.5	176.1
165°	160.5	162.6	165.9	170.2	173.3
167.5°	163.3	165.2	166.9	169.1	171.0
170°	165.9	166.9	166.9	169.1	170.1
172.5°	166.7	168.6	167.8	168.2	169.3
175°	169.0	170.1	169.0	168.0	166.9
177.5°	169.0	169.9	169.0	169.0	168.2
180°	169.0	169.0	169.0	169.0	169.0

(END OF REPORT)