

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: P621765

Luminaire Tested: VLT-FB-025U-125D-840-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621765
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-840-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

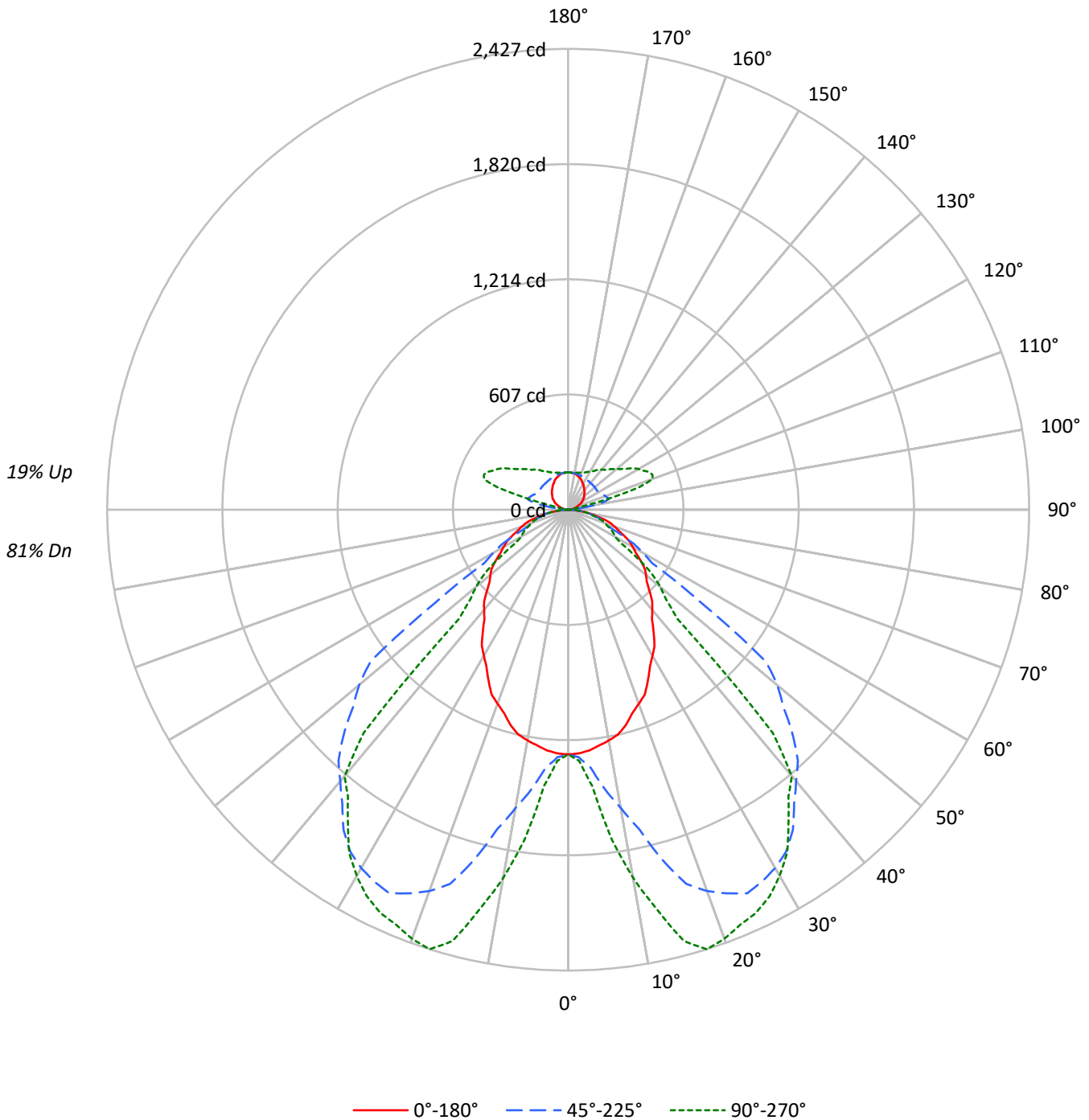
Lumens per Lamp: N/A
Luminaire Lumens: 5676.5 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	92	92	92	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°	9247	9247	9247
5°	9169	9829	10527
10°	8989	11622	14351
15°	8717	14165	17472
20°	8300	16321	18360
25°	7859	17647	18539
30°	7357	18056	18446
35°	6860	18057	17712
40°	6452	17493	17149
45°	6140	16958	8213
50°	5965	16052	7076
55°	5800	10748	5604
60°	5639	6540	4060
65°	5515	4980	4225
70°	5440	4341	4341
75°	5301	4503	4356
80°	4653	4546	4331
85°	3450	4742	4100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16958 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	2.4
10°-20°	512.4	9.0
20°-30°	867.8	15.3
30°-40°	1052.7	18.5
40°-50°	926.6	16.3
50°-60°	573.4	10.1
60°-70°	310.9	5.5
70°-80°	177.1	3.1
80°-90°	58.4	1.0
90°-100°	24.2	0.4
100°-110°	172.6	3.0
110°-120°	234.3	4.1
120°-130°	190.7	3.4
130°-140°	153.4	2.7
140°-150°	120.9	2.1
150°-160°	88.4	1.6
160°-170°	54.9	1.0
170°-180°	18.7	0.3
0°-30°	1519.1	26.8
0°-40°	2571.9	45.3
0°-60°	4071.9	71.7
0°-90°	4618.2	81.4
90°-120°	431.2	7.6
90°-150°	896.2	15.8
90°-180°	1058.0	18.6
0°-180°	5676.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1273	1314	1364	1423	1461	120
15°	1173	1353	1907	2255	2352	329
25°	993	1359	2229	2295	2342	456
35°	783	1259	2061	2032	2022	491
45°	605	1035	1671	1416	809	469
55°	464	722	859	496	448	415
65°	325	407	293	251	249	322
75°	191	168	162	160	157	200
85°	42	57	58	52	50	51
90°	0	1	2	4	4	2
95°	10	18	10	11	14	11
105°	38	59	224	286	190	40
115°	68	83	193	402	470	68
125°	98	111	182	318	377	87
135°	121	135	183	262	301	93
145°	144	156	185	228	253	90
155°	168	175	188	207	217	77
165°	187	190	193	198	202	53
175°	197	198	197	196	194	19
180°	197	197	197	197	197	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1288.6	1288.6	1288.6	1288.6	1288.6
2.5°	1284.4	1298.7	1305.3	1318.1	1324.2
5°	1272.9	1313.8	1364.5	1423.0	1461.4
7.5°	1252.4	1325.7	1486.1	1670.7	1749.5
10°	1233.6	1333.5	1595.0	1862.0	1969.5
12.5°	1212.6	1341.2	1722.8	2046.4	2156.0
15°	1173.3	1352.6	1906.7	2254.6	2351.9
17.5°	1122.5	1359.7	2065.9	2364.9	2427.4
20°	1086.9	1360.9	2137.2	2378.7	2404.3
22.5°	1053.4	1362.2	2187.4	2345.1	2366.6
25°	992.6	1358.8	2228.8	2295.4	2341.5
27.5°	931.9	1343.7	2208.4	2262.1	2295.4
30°	887.9	1328.3	2179.1	2223.7	2226.2
32.5°	846.0	1302.8	2135.1	2148.1	2144.5
35°	783.1	1259.4	2061.2	2032.2	2021.9
37.5°	724.4	1201.8	1953.3	1906.6	1904.1
40°	688.8	1160.0	1867.4	1823.0	1830.7
42.5°	655.3	1112.2	1789.9	1737.9	1594.0
45°	605.0	1035.2	1671.0	1416.2	809.3
47.5°	561.5	947.7	1536.3	758.6	696.7
50°	534.3	887.7	1437.9	667.1	633.8
52.5°	507.1	831.8	1310.1	599.8	556.3
55°	463.6	722.2	859.1	496.5	447.9
57.5°	422.2	607.1	524.9	385.9	333.1
60°	392.9	538.8	455.7	311.0	282.9
62.5°	365.6	482.9	388.7	275.9	270.3
65°	324.8	406.7	293.3	251.4	248.8
67.5°	286.5	334.2	223.7	226.2	223.7
70°	259.3	282.3	206.9	209.5	206.9
72.5°	234.1	232.6	190.1	188.5	186.0
75°	191.2	168.1	162.4	159.7	157.1
77.5°	146.1	124.1	131.0	128.3	125.7
80°	112.6	104.9	110.0	107.3	104.8
82.5°	83.3	85.8	89.0	84.3	81.7
85°	41.9	57.3	57.6	52.3	49.8
87.5°	12.6	25.1	23.5	19.6	17.5
90°	0.0	1.2	2.5	3.7	3.7
92.5°	3.0	4.2	5.5	7.7	8.7
95°	9.9	18.4	9.9	11.2	13.6
97.5°	17.6	35.3	72.9	21.5	18.6
100°	23.5	44.1	146.2	43.0	28.5
102.5°	29.5	51.1	197.8	113.6	62.2
105°	38.4	59.0	224.3	286.5	189.6
107.5°	47.3	62.8	214.1	417.0	390.5
110°	53.3	67.8	208.2	438.1	470.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.2	73.8	202.2	425.7	480.7
115°	68.1	82.7	193.3	401.8	469.6
117.5°	77.3	91.6	191.1	375.8	445.6
120°	84.3	97.6	187.1	356.0	428.7
122.5°	89.2	103.5	182.1	339.0	405.9
125°	97.9	111.2	182.1	318.5	376.7
127.5°	105.1	118.6	182.4	294.7	352.1
130°	109.0	123.6	183.4	278.8	333.3
132.5°	114.0	128.5	183.4	271.6	316.4
135°	121.4	134.8	183.4	262.3	301.1
137.5°	127.6	141.9	183.4	252.0	285.2
140°	132.6	145.9	183.4	246.0	276.3
142.5°	137.5	149.9	184.4	239.0	267.4
145°	143.7	155.8	184.6	228.5	252.8
147.5°	151.2	161.8	186.1	221.0	239.6
150°	156.1	165.8	187.1	216.0	231.7
152.5°	161.1	169.8	187.1	211.9	224.8
155°	168.5	174.6	188.3	207.1	216.8
157.5°	174.5	180.3	189.8	204.1	211.1
160°	178.4	183.3	190.8	202.1	208.2
162.5°	181.4	186.2	191.8	201.1	205.2
165°	187.1	189.5	193.3	198.3	202.0
167.5°	190.3	192.5	194.5	197.1	199.2
170°	193.3	194.5	194.5	197.0	198.2
172.5°	194.3	196.5	195.5	196.0	197.3
175°	197.0	198.2	197.0	195.7	194.5
177.5°	197.0	198.0	197.0	197.0	196.0
180°	197.0	197.0	197.0	197.0	197.0

(END OF REPORT)