

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: P621837

Luminaire Tested: VLT-FB-0U-125D-840-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621837
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-19)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FB-0U-125D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

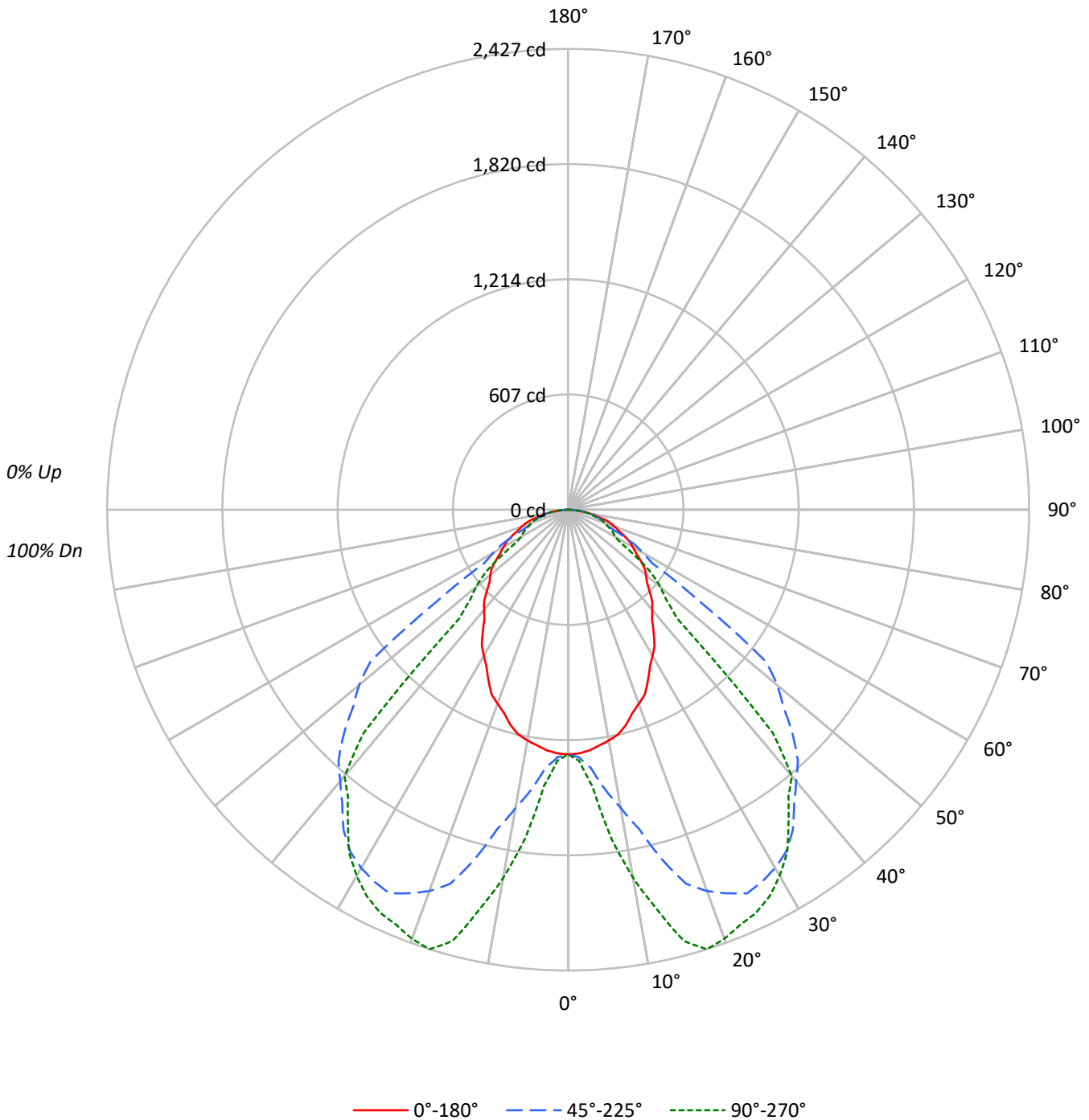
Lumens per Lamp: N/A
Luminaire Lumens: 4617.8 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): 120
Input Current (Ain): 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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100									100																			
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87									87																			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75									75																			
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65									65																			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56									56																			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49									49																			
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44									44																			
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39									39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35									35																			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31									31																			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28									28																			

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	3.0
10°-20°	512.4	11.1
20°-30°	867.8	18.8
30°-40°	1052.7	22.8
40°-50°	926.6	20.1
50°-60°	573.4	12.4
60°-70°	310.9	6.7
70°-80°	177.1	3.8
80°-90°	57.9	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1519.1	32.9
0°-40°	2571.9	55.7
0°-60°	4071.9	88.2
0°-90°	4617.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4617.8	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	53
90°	0	0	0	0	0	



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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	24.9	23.0	18.8	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)