

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: P621885

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621885
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-125U-125D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

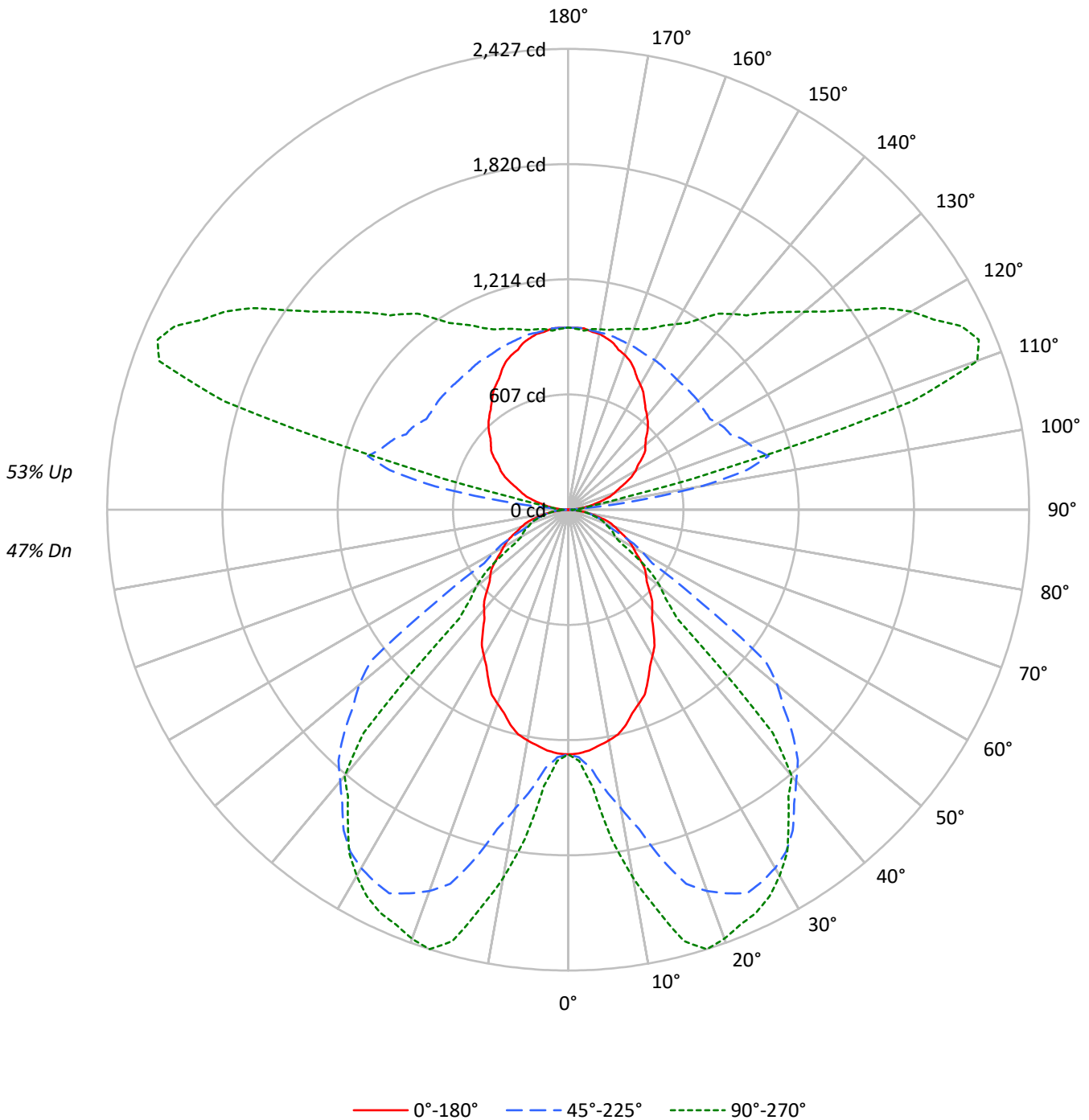
Lumens per Lamp: N/A
Luminaire Lumens: 9770.4 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 76.9
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	0
RCR																				
0	106	106	106	106	98	98	98	98	82	82	82		67	67	67		54	54	54	47
1	98	94	90	87	90	86	83	80	73	70	68		60	58	57		48	47	46	41
2	89	82	77	72	82	76	71	67	64	61	57		53	51	49		43	41	40	35
3	82	73	66	60	75	67	61	57	57	53	49		48	44	42		39	37	35	31
4	75	65	57	51	69	60	53	48	51	46	42		43	39	36		35	32	30	27
5	69	58	50	44	63	54	47	42	46	41	37		39	35	32		32	29	27	23
6	64	52	44	39	59	48	41	36	41	36	32		35	31	28		29	26	24	21
7	59	47	39	34	54	44	37	32	38	32	28		32	28	25		26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25		29	25	22		24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	22		27	23	20		22	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20		25	21	18		21	18	15	13

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	1.4
10°-20°	512.4	5.2
20°-30°	867.8	8.9
30°-40°	1052.7	10.8
40°-50°	926.6	9.5
50°-60°	573.4	5.9
60°-70°	310.9	3.2
70°-80°	177.1	1.8
80°-90°	60.1	0.6
90°-100°	117.9	1.2
100°-110°	840.0	8.6
110°-120°	1140.5	11.7
120°-130°	928.2	9.5
130°-140°	746.5	7.6
140°-150°	588.6	6.0
150°-160°	430.4	4.4
160°-170°	267.3	2.7
170°-180°	91.2	0.9
0°-30°	1519.1	15.5
0°-40°	2571.9	26.3
0°-60°	4071.9	41.7
0°-90°	4619.9	47.3
90°-120°	2098.4	21.5
90°-150°	4361.7	44.6
90°-180°	5150.0	52.7
0°-180°	9770.4	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	6	12	18	18	4
95°	48	90	48	54	66	54
105°	187	287	1092	1394	923	197
115°	332	402	941	1955	2286	329
125°	476	541	886	1550	1833	423
135°	591	656	892	1277	1465	455
145°	700	758	898	1112	1230	439
155°	820	850	917	1008	1055	376
165°	911	922	941	965	983	256
175°	959	965	959	953	947	91
180°	959	959	959	959	959	



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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	26.0	25.5	22.4	20.4
90°	0.0	5.9	12.1	18.1	18.1
92.5°	14.5	20.4	26.5	37.5	42.2
95°	48.2	89.5	48.2	54.5	66.3
97.5°	85.6	171.7	354.6	104.6	90.5
100°	114.6	214.8	711.6	209.5	138.7
102.5°	143.5	248.5	962.4	552.7	302.7
105°	186.9	287.2	1091.5	1394.3	922.6
107.5°	230.4	305.8	1042.0	2029.3	1900.7
110°	259.3	330.1	1013.1	2132.3	2291.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	359.0	984.1	2072.1	2339.7
115°	331.7	402.4	940.7	1955.3	2285.5
117.5°	376.3	445.9	929.9	1828.9	2168.5
120°	410.1	474.9	910.6	1732.7	2086.5
122.5°	434.2	503.8	886.4	1650.0	1975.5
125°	476.4	541.2	886.4	1550.2	1833.2
127.5°	511.4	577.4	887.7	1434.3	1713.8
130°	530.7	601.4	892.5	1356.8	1622.1
132.5°	554.8	625.5	892.5	1322.0	1540.1
135°	591.0	655.8	892.5	1276.7	1465.4
137.5°	621.1	690.7	892.5	1226.6	1388.2
140°	645.2	710.1	892.5	1197.3	1344.7
142.5°	669.4	729.5	897.3	1163.4	1301.3
145°	699.5	758.5	898.5	1112.2	1230.2
147.5°	735.7	787.6	905.7	1075.5	1166.3
150°	759.8	807.0	910.6	1051.0	1127.7
152.5°	783.9	826.4	910.6	1031.4	1093.9
155°	820.1	849.6	916.6	1008.1	1055.3
157.5°	849.1	877.4	923.8	993.4	1027.6
160°	868.4	891.9	928.7	983.6	1013.1
162.5°	882.8	906.4	933.5	978.6	998.6
165°	910.6	922.4	940.7	965.2	982.9
167.5°	926.2	936.9	946.8	959.1	969.7
170°	940.7	946.6	946.8	958.9	964.8
172.5°	945.5	956.2	951.6	954.1	960.0
175°	958.8	964.7	958.8	952.6	946.8
177.5°	958.8	963.5	958.8	958.7	954.0
180°	958.8	958.8	958.8	958.8	958.8

(END OF REPORT)