

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: P621839

Luminaire Tested: VLT-FB-0U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621839
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-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

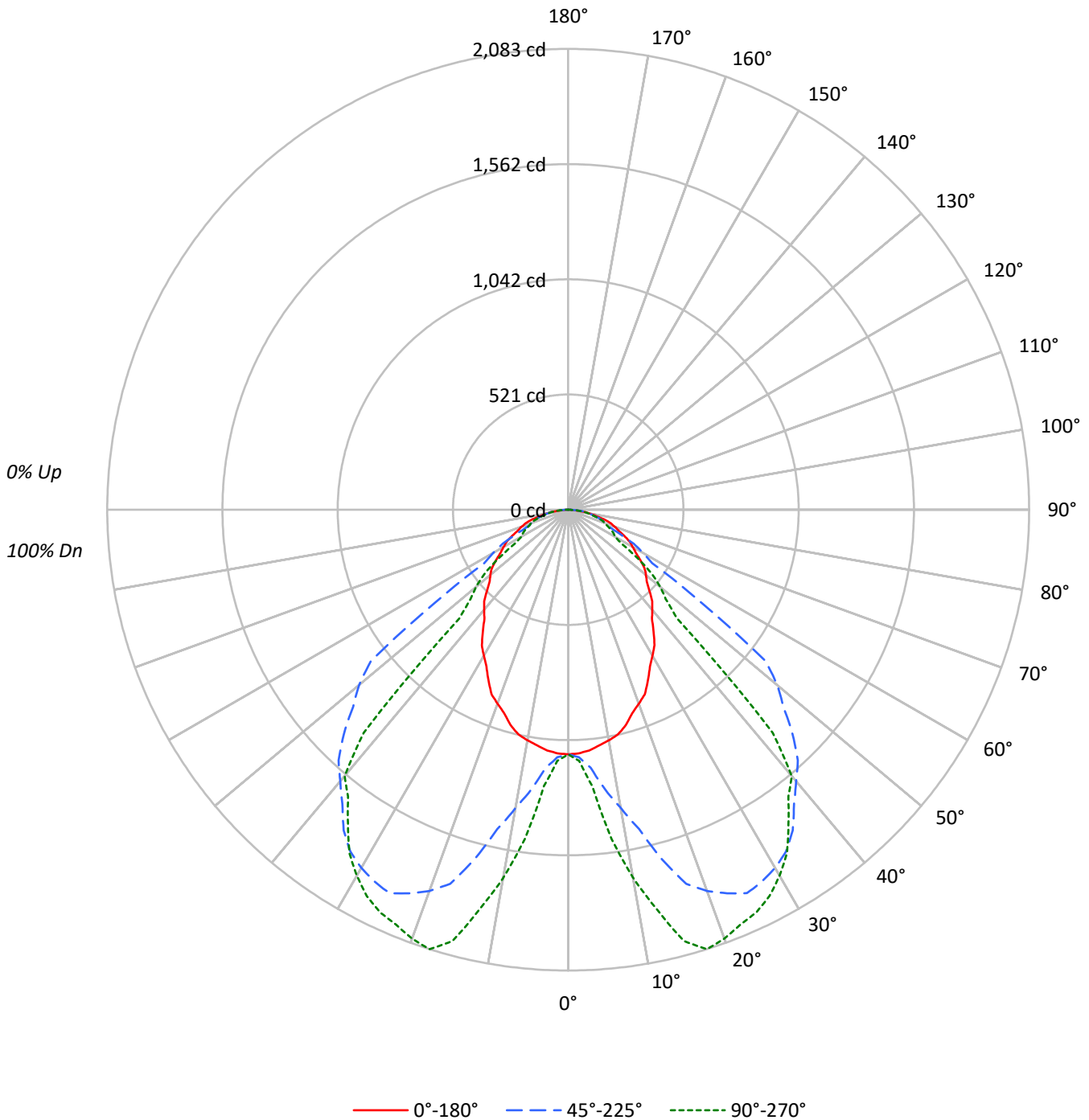
Lumens per Lamp: N/A
Luminaire Lumens: 3962.4 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

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	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				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77					75				
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67					65				
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51					49				
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46					44				
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37					35				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					28				

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	3.0
10°-20°	439.6	11.1
20°-30°	744.6	18.8
30°-40°	903.3	22.8
40°-50°	795.1	20.1
50°-60°	492.0	12.4
60°-70°	266.7	6.7
70°-80°	152.0	3.8
80°-90°	49.7	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°	1303.5	32.9
0°-40°	2206.9	55.7
0°-60°	3494.0	88.2
0°-90°	3962.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3962.4	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	45
90°	0	0	0	0	0	



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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	21.3	19.8	16.1	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)