

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: P621499

Luminaire Tested: VLT-F-0U-125D-830-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621499
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-F-0U-125D-830-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

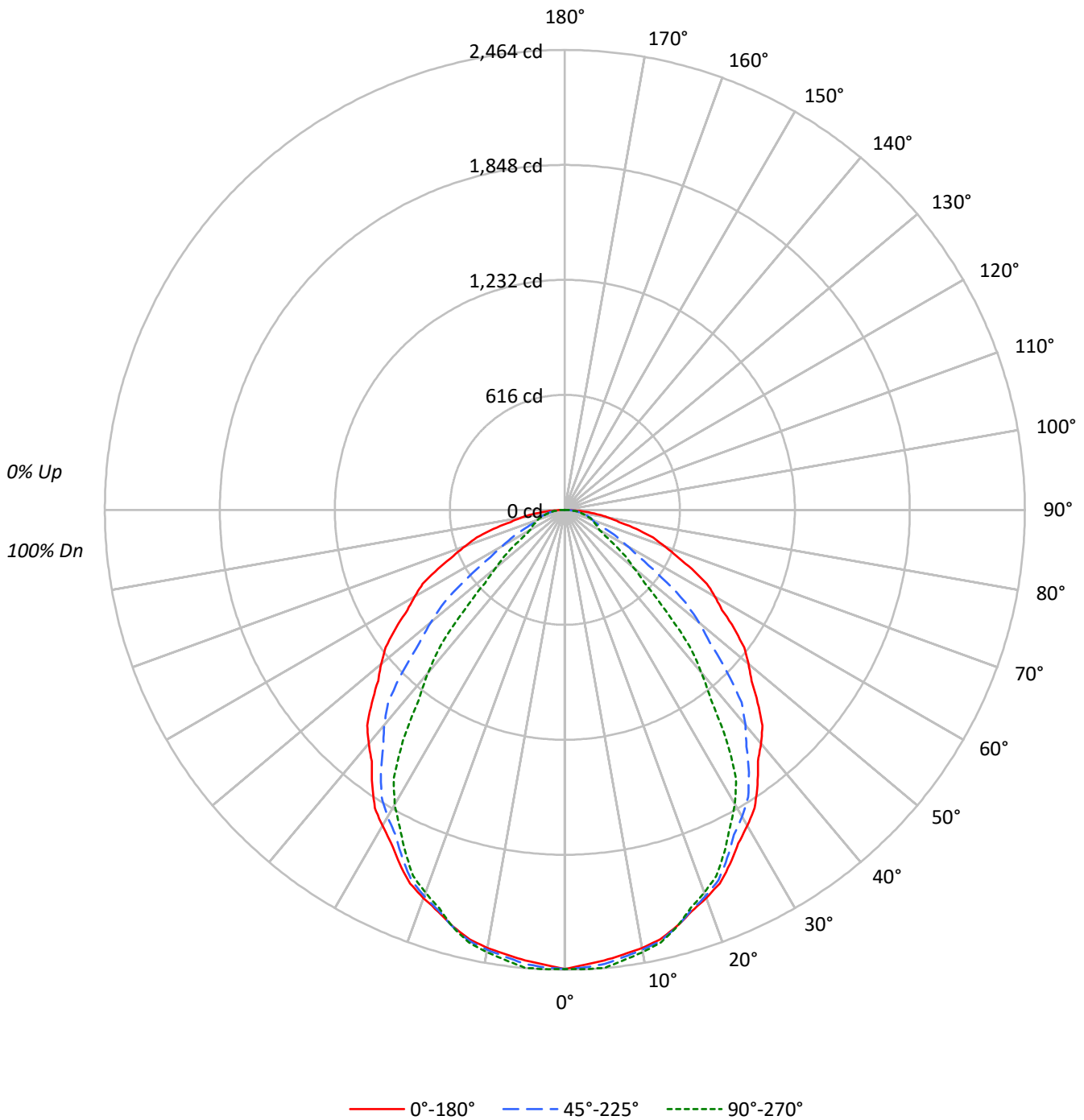
Lumens per Lamp: N/A
Luminaire Lumens: 5015.5 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P621499
CATALOG NUMBER: VLT-F-OU-125D-830-UNV-STD-W-4

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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																				
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87																				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75																				
3	94	85	77	72	92	83	76	71	80	74	70	78	73	69	75	71	67	65																				
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57																				
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51																				
6	75	63	54	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45																				
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41																				
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	39	37																				
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33																				
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17651	17651	17651
5°	17462	17590	17736
10°	17367	17441	17534
15°	17178	17197	17197
20°	16901	16823	16668
25°	16578	16296	16014
30°	16191	15728	15096
35°	15760	15047	13245
40°	15305	14092	10664
45°	14828	12480	7736
50°	14325	10439	5361
55°	13828	7947	4006
60°	13311	5507	3027
65°	12728	3926	3106
70°	11888	3305	3200
75°	10990	3383	3241
80°	9554	3570	3360
85°	7739	3977	3351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14828 cd/sqm



TEST NUMBER: P621499
 CATALOG NUMBER: VLT-F-OU-125D-830-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	4.6
10°-20°	651.8	13.0
20°-30°	948.1	18.9
30°-40°	1048.9	20.9
40°-50°	900.5	18.0
50°-60°	623.5	12.4
60°-70°	371.5	7.4
70°-80°	183.1	3.6
80°-90°	56.5	1.1
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°	1831.6	36.5
0°-40°	2880.5	57.4
0°-60°	4404.5	87.8
0°-90°	5015.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5015.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2460	2460	2460	2460	2460	
5°	2424	2461	2442	2440	2462	230
15°	2312	2342	2315	2302	2315	651
25°	2094	2109	2058	2023	2023	963
35°	1799	1794	1718	1579	1512	1124
45°	1461	1436	1230	889	762	1127
55°	1105	1058	635	365	320	988
65°	750	603	231	185	183	742
75°	396	173	122	119	117	418
85°	94	47	48	43	41	113
90°	0	0	0	0	0	



TEST NUMBER: P621499

CATALOG NUMBER: VLT-F-OU-125D-830-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2459.7	2459.7	2459.7	2459.7	2459.7
2.5°	2439.3	2467.2	2453.6	2453.8	2463.7
5°	2424.1	2461.3	2441.9	2439.8	2462.2
7.5°	2401.7	2436.0	2415.9	2413.3	2432.7
10°	2383.4	2415.7	2393.6	2388.9	2406.3
12.5°	2357.0	2389.3	2365.1	2356.4	2373.8
15°	2312.3	2342.1	2314.8	2302.4	2314.8
17.5°	2255.9	2280.7	2249.8	2230.1	2237.6
20°	2213.2	2238.0	2203.0	2175.2	2182.7
22.5°	2166.4	2187.3	2148.1	2116.2	2121.7
25°	2093.8	2108.7	2058.2	2022.6	2022.6
27.5°	2013.0	2021.9	1963.1	1925.8	1915.4
30°	1954.0	1959.0	1898.1	1854.2	1821.9
32.5°	1893.0	1896.0	1827.0	1756.2	1706.0
35°	1799.0	1794.0	1717.7	1579.0	1511.9
37.5°	1698.9	1688.0	1597.8	1386.6	1286.7
40°	1633.8	1618.9	1504.3	1250.2	1138.4
42.5°	1566.8	1545.9	1400.6	1109.6	985.9
45°	1461.1	1436.2	1229.8	889.0	762.3
47.5°	1356.4	1323.6	1055.0	688.7	579.8
50°	1283.2	1248.4	935.1	567.2	480.2
52.5°	1210.0	1175.2	813.1	476.1	407.1
55°	1105.3	1058.1	635.2	364.9	320.2
57.5°	998.6	931.0	473.1	284.3	249.5
60°	927.5	838.0	383.7	235.7	210.9
62.5°	858.3	745.0	314.6	205.7	200.7
65°	749.6	603.0	231.2	185.4	182.9
67.5°	645.9	460.1	171.8	167.1	164.7
70°	566.6	362.9	157.5	154.9	152.5
72.5°	495.5	277.8	143.3	140.7	138.2
75°	396.4	172.8	122.0	119.4	116.9
77.5°	296.3	108.9	100.6	98.0	95.5
80°	231.2	89.6	86.4	83.8	81.3
82.5°	174.3	72.4	70.1	67.5	65.0
85°	94.0	46.8	48.3	43.1	40.7
87.5°	32.5	22.6	22.4	18.2	16.3
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	21.54	23.01	21.91	23.32	23.64	13.77	15.24	14.14	15.56	15.87
	3H	23.08	24.39	23.46	24.72	25.08	15.17	16.49	15.55	16.81	17.18
	4H	23.62	24.85	24.02	25.20	25.58	15.85	17.08	16.25	17.43	17.81
	6H	24.04	25.18	24.46	25.55	25.94	16.47	17.60	16.88	17.97	18.36
	8H	24.19	25.27	24.62	25.66	26.06	16.71	17.79	17.14	18.18	18.58
	12H	24.29	25.32	24.72	25.70	26.13	16.89	17.93	17.33	18.31	18.74
4H	2H	21.44	22.67	21.84	23.02	23.40	14.46	15.69	14.86	16.04	16.42
	3H	23.13	24.15	23.54	24.55	24.95	16.06	17.08	16.48	17.48	17.88
	4H	23.74	24.65	24.17	25.07	25.51	16.88	17.80	17.32	18.21	18.65
	6H	24.26	25.06	24.72	25.50	25.96	17.65	18.44	18.11	18.89	19.35
	8H	24.46	25.20	24.92	25.65	26.11	17.95	18.69	18.42	19.14	19.61
	12H	24.62	25.28	25.10	25.76	26.23	18.20	18.86	18.68	19.34	19.81
8H	4H	23.70	24.44	24.16	24.88	25.35	17.38	18.12	17.84	18.56	19.03
	6H	24.25	24.86	24.75	25.35	25.83	18.28	18.89	18.77	19.38	19.86
	8H	24.48	25.03	25.00	25.55	26.03	18.67	19.22	19.19	19.73	20.22
	12H	24.70	25.18	25.21	25.68	26.24	19.01	19.50	19.53	19.99	20.56
12H	4H	23.67	24.33	24.16	24.81	25.29	17.45	18.11	17.93	18.59	19.06
	6H	24.22	24.77	24.74	25.28	25.77	18.39	18.94	18.91	19.45	19.94
	8H	24.49	24.98	25.00	25.47	26.03	18.86	19.34	19.37	19.84	20.40