

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: P621429

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621429
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-F-025U-125D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

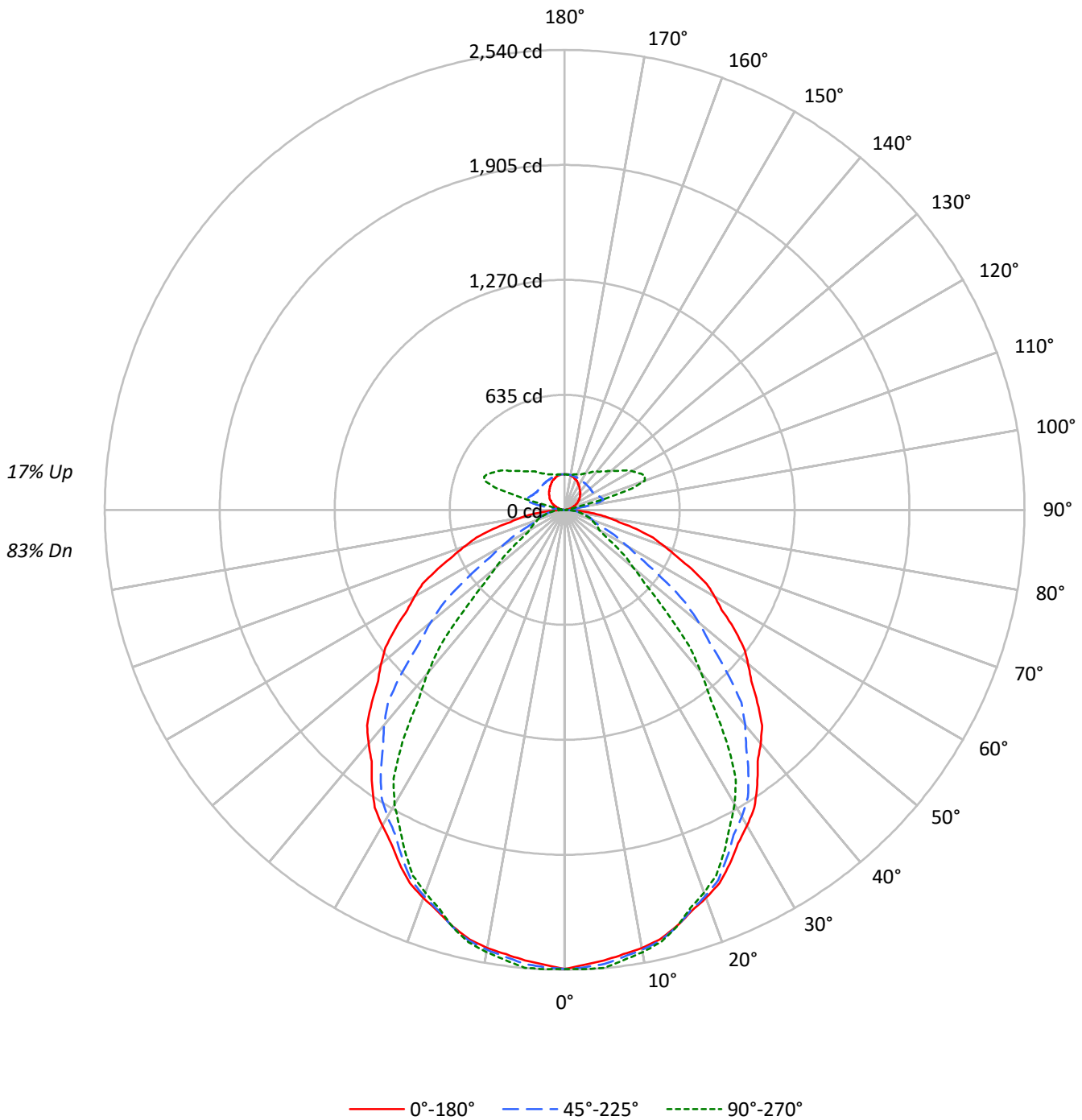
Lumens per Lamp: N/A
Luminaire Lumens: 6228.4 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 47
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	0	
RCR																						
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83				
1	106	102	99	95	102	98	95	92	91	89	86	84	82	81	78	77	75	72				
2	98	91	85	80	94	87	82	78	81	77	73	76	72	69	70	68	65	62				
3	90	81	74	68	86	78	72	66	73	68	63	68	64	60	63	60	57	54				
4	83	73	65	59	80	70	63	58	66	60	55	61	57	53	58	54	50	48				
5	77	65	57	52	74	63	56	51	59	53	48	56	51	46	52	48	45	42				
6	71	59	51	46	68	58	50	45	54	48	43	51	46	41	48	43	40	38				
7	66	54	46	41	64	53	45	40	50	43	39	47	41	37	44	39	36	34				
8	62	50	42	37	60	48	41	36	46	39	35	43	38	34	41	36	32	31				
9	58	46	38	33	56	45	37	33	42	36	32	40	35	31	38	33	30	28				
10	54	42	35	30	52	41	34	30	39	33	29	37	32	28	35	31	27	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18193	18193	18193
5°	17998	18130	18281
10°	17901	17978	18073
15°	17706	17726	17726
20°	17420	17340	17181
25°	17087	16798	16507
30°	16689	16212	15560
35°	16244	15510	13652
40°	15776	14524	10991
45°	15283	12864	7974
50°	14765	10760	5526
55°	14254	8192	4129
60°	13720	5676	3120
65°	13119	4046	3202
70°	12255	3407	3296
75°	11329	3485	3341
80°	9848	3678	3463
85°	7978	4100	3450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15283 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.9	3.8
10°-20°	671.8	10.8
20°-30°	977.2	15.7
30°-40°	1081.1	17.4
40°-50°	928.2	14.9
50°-60°	642.7	10.3
60°-70°	382.9	6.1
70°-80°	188.7	3.0
80°-90°	58.7	0.9
90°-100°	24.2	0.4
100°-110°	172.6	2.8
110°-120°	234.3	3.8
120°-130°	190.7	3.1
130°-140°	153.4	2.5
140°-150°	120.9	1.9
150°-160°	88.4	1.4
160°-170°	54.9	0.9
170°-180°	18.7	0.3
0°-30°	1887.9	30.3
0°-40°	2969.0	47.7
0°-60°	4539.9	72.9
0°-90°	5170.2	83.0
90°-120°	431.2	6.9
90°-150°	896.2	14.4
90°-180°	1058.0	17.0
0°-180°	6228.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2535	2535	2535	2535	2535	
5°	2499	2537	2517	2515	2538	237
15°	2383	2414	2386	2373	2386	671
25°	2158	2174	2122	2085	2085	993
35°	1854	1849	1770	1628	1558	1159
45°	1506	1480	1268	916	786	1162
55°	1139	1091	655	376	330	1018
65°	773	622	238	191	189	765
75°	409	178	126	123	120	431
85°	97	48	50	44	42	112
90°	0	1	2	4	4	5
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°	2535.3	2535.3	2535.3	2535.3	2535.3
2.5°	2514.3	2543.0	2529.0	2529.2	2539.5
5°	2498.6	2537.0	2516.9	2514.8	2537.9
7.5°	2475.6	2510.9	2490.2	2487.5	2507.5
10°	2456.7	2490.0	2467.2	2462.3	2480.3
12.5°	2429.5	2462.7	2437.8	2428.8	2446.7
15°	2383.4	2414.1	2386.0	2373.2	2386.0
17.5°	2325.2	2350.8	2318.9	2298.7	2306.4
20°	2281.2	2306.8	2270.7	2242.1	2249.8
22.5°	2233.0	2254.5	2214.2	2181.3	2186.9
25°	2158.1	2173.5	2121.5	2084.8	2084.8
27.5°	2074.8	2084.1	2023.5	1985.0	1974.3
30°	2014.1	2019.2	1956.5	1911.2	1877.9
32.5°	1951.2	1954.3	1883.1	1810.2	1758.4
35°	1854.3	1849.2	1770.5	1627.5	1558.4
37.5°	1751.1	1739.8	1646.9	1429.2	1326.3
40°	1684.1	1668.7	1550.5	1288.6	1173.3
42.5°	1614.9	1593.4	1443.6	1143.7	1016.2
45°	1506.0	1480.4	1267.6	916.3	785.7
47.5°	1398.1	1364.3	1087.4	709.8	597.7
50°	1322.6	1286.8	963.8	584.6	495.0
52.5°	1247.2	1211.4	838.1	490.8	419.6
55°	1139.3	1090.6	654.8	376.1	330.0
57.5°	1029.3	959.6	487.7	293.0	257.2
60°	956.0	863.8	395.5	243.0	217.4
62.5°	884.7	767.9	324.2	212.0	206.9
65°	772.6	621.5	238.3	191.1	188.6
67.5°	665.8	474.2	177.0	172.3	169.7
70°	584.1	374.1	162.4	159.7	157.1
72.5°	510.7	286.4	147.7	145.0	142.5
75°	408.6	178.1	125.7	123.0	120.5
77.5°	305.4	112.3	103.7	101.0	98.5
80°	238.3	92.4	89.0	86.4	83.8
82.5°	179.7	74.7	72.3	69.6	67.0
85°	96.9	48.2	49.8	44.5	41.9
87.5°	33.5	23.5	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



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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	20.40	21.56	21.02	22.18	22.89	12.63	13.79	13.25	14.42	15.13
	3H	21.91	22.95	22.55	23.59	24.33	14.01	15.05	14.64	15.68	16.43
	4H	22.44	23.42	23.10	24.06	24.82	14.67	15.65	15.33	16.30	17.06
	6H	22.85	23.75	23.52	24.41	25.18	15.28	16.18	15.95	16.84	17.61
	8H	22.99	23.85	23.67	24.52	25.30	15.51	16.37	16.19	17.04	17.82
	12H	23.08	23.90	23.77	24.57	25.37	15.69	16.50	16.37	17.17	17.98
4H	2H	20.26	21.24	20.92	21.88	22.65	13.28	14.26	13.94	14.91	15.67
	3H	21.93	22.73	22.60	23.42	24.20	14.86	15.67	15.53	16.36	17.13
	4H	22.53	23.26	23.21	23.95	24.76	15.67	16.40	16.35	17.09	17.90
	6H	23.04	23.67	23.74	24.38	25.20	16.42	17.05	17.13	17.77	18.59
	8H	23.23	23.82	23.94	24.53	25.36	16.72	17.31	17.43	18.02	18.85
	12H	23.37	23.90	24.10	24.63	25.47	16.95	17.48	17.68	18.21	19.05
8H	4H	22.46	23.05	23.18	23.77	24.60	16.14	16.73	16.85	17.44	18.27
	6H	23.01	23.49	23.75	24.25	25.09	17.03	17.52	17.78	18.28	19.11
	8H	23.24	23.68	24.00	24.44	25.29	17.43	17.86	18.18	18.62	19.47
	12H	23.44	23.83	24.20	24.57	25.49	17.76	18.14	18.51	18.89	19.80
12H	4H	22.43	22.95	23.16	23.69	24.53	16.20	16.73	16.94	17.47	18.31
	6H	22.98	23.41	23.74	24.17	25.02	17.15	17.58	17.90	18.34	19.19
	8H	23.24	23.62	23.99	24.37	25.28	17.60	17.99	18.36	18.73	19.65