

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: P621424

Luminaire Tested: VLT-F-025U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621424
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-100D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

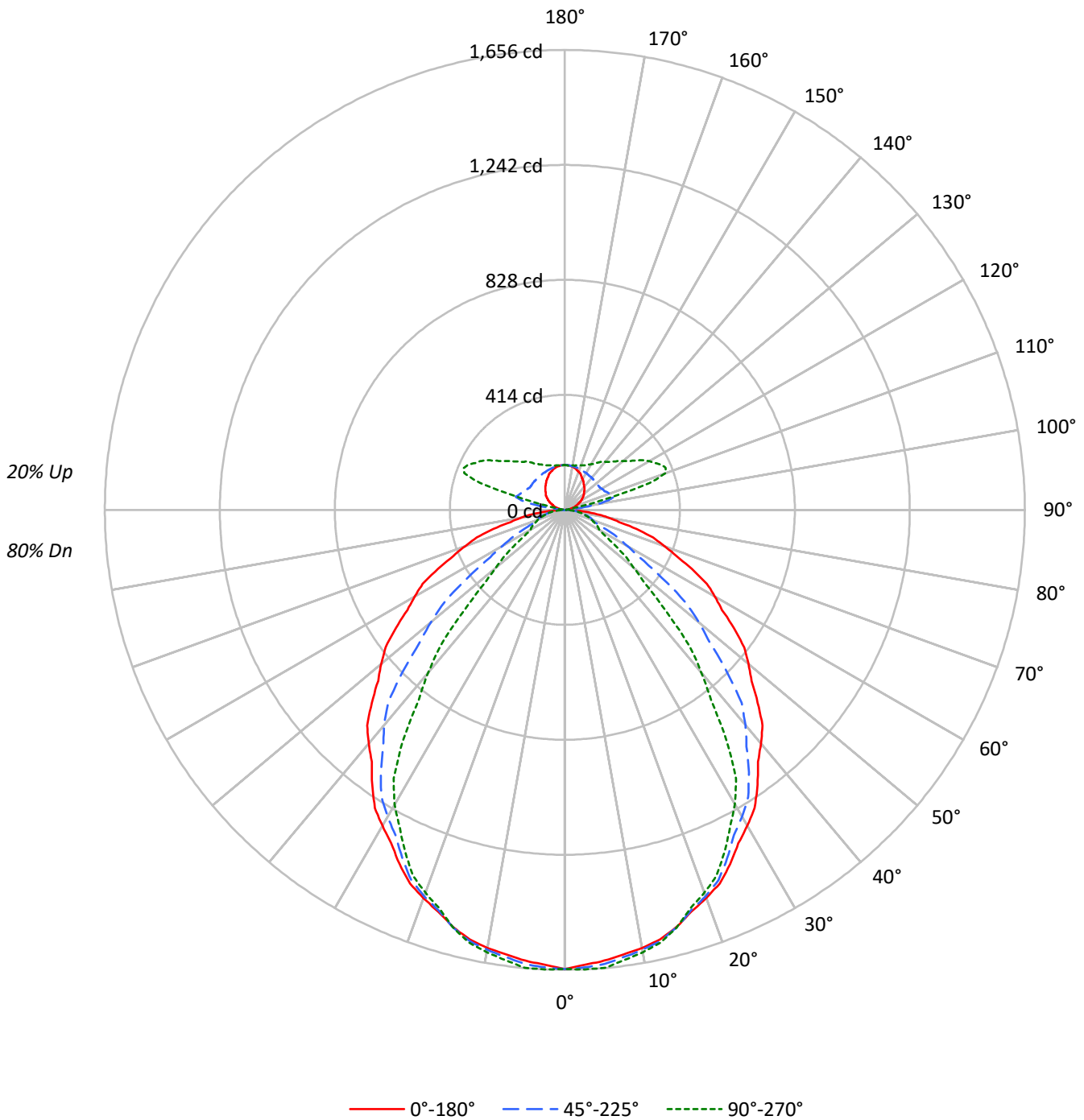
Lumens per Lamp: N/A
Luminaire Lumens: 4238.3 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 37.5
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80																
1	106	101	98	94	101	97	94	91	89	87	84	82	80	78	75	74	73	69																
2	97	90	84	79	93	86	81	77	80	76	72	73	70	67	68	65	63	60																
3	89	80	73	67	85	77	71	66	71	66	62	66	62	58	61	58	55	52																
4	82	72	64	58	79	69	62	57	64	58	54	60	55	51	55	52	48	46																
5	76	65	57	51	73	63	55	50	58	52	47	54	49	45	50	46	43	40																
6	71	59	51	45	68	57	49	44	53	47	42	49	44	40	46	42	38	36																
7	66	54	46	40	63	52	44	39	49	42	38	45	40	36	43	38	34	32																
8	61	49	41	36	59	48	40	35	45	38	34	42	37	33	39	35	31	29																
9	57	45	38	33	55	44	37	32	41	35	31	39	33	30	36	32	28	27																
10	54	42	35	30	52	41	34	29	38	32	28	36	31	27	34	29	26	24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11865	11865	11865
5°	11738	11824	11922
10°	11674	11724	11786
15°	11547	11560	11560
20°	11361	11309	11204
25°	11143	10954	10765
30°	10884	10572	10148
35°	10594	10115	8903
40°	10288	9472	7168
45°	9967	8390	5200
50°	9630	7018	3604
55°	9296	5342	2692
60°	8947	3701	2035
65°	8556	2639	2089
70°	7992	2222	2151
75°	7389	2274	2179
80°	6422	2401	2260
85°	5204	2676	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	3.7
10°-20°	438.1	10.3
20°-30°	637.3	15.0
30°-40°	705.0	16.6
40°-50°	605.3	14.3
50°-60°	419.1	9.9
60°-70°	249.7	5.9
70°-80°	123.0	2.9
80°-90°	38.4	0.9
90°-100°	19.8	0.5
100°-110°	141.3	3.3
110°-120°	191.9	4.5
120°-130°	156.1	3.7
130°-140°	125.6	3.0
140°-150°	99.0	2.3
150°-160°	72.4	1.7
160°-170°	45.0	1.1
170°-180°	15.3	0.4
0°-30°	1231.2	29.0
0°-40°	1936.2	45.7
0°-60°	2960.7	69.9
0°-90°	3371.8	79.6
90°-120°	353.0	8.3
90°-150°	733.8	17.3
90°-180°	866.0	20.4
0°-180°	4238.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1653	1653	1653	1653	1653	
5°	1630	1654	1641	1640	1655	155
15°	1554	1574	1556	1548	1556	438
25°	1407	1417	1384	1360	1360	647
35°	1209	1206	1155	1061	1016	756
45°	982	965	827	598	512	758
55°	743	711	427	245	215	664
65°	504	405	155	125	123	499
75°	266	116	82	80	79	281
85°	63	32	32	29	27	73
90°	0	1	2	3	3	3
95°	8	15	8	9	11	9
105°	31	48	184	235	155	33
115°	56	68	158	329	384	55
125°	80	91	149	261	308	71
135°	99	110	150	215	246	76
145°	118	128	151	187	207	74
155°	138	143	154	170	178	63
165°	153	155	158	162	165	43
175°	161	162	161	160	159	15
180°	161	161	161	161	161	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.4	1653.4	1653.4	1653.4	1653.4
2.5°	1639.7	1658.4	1649.3	1649.4	1656.1
5°	1629.5	1654.5	1641.4	1640.1	1655.1
7.5°	1614.4	1637.5	1624.0	1622.2	1635.3
10°	1602.1	1623.9	1609.0	1605.8	1617.5
12.5°	1584.4	1606.1	1589.8	1584.0	1595.6
15°	1554.3	1574.4	1556.0	1547.7	1556.0
17.5°	1516.4	1533.1	1512.3	1499.1	1504.1
20°	1487.7	1504.4	1480.9	1462.2	1467.2
22.5°	1456.3	1470.3	1444.0	1422.5	1426.2
25°	1407.4	1417.4	1383.5	1359.6	1359.6
27.5°	1353.1	1359.1	1319.6	1294.5	1287.5
30°	1313.5	1316.8	1275.9	1246.4	1224.7
32.5°	1272.5	1274.5	1228.1	1180.5	1146.8
35°	1209.3	1206.0	1154.6	1061.4	1016.3
37.5°	1142.0	1134.6	1074.0	932.1	865.0
40°	1098.3	1088.2	1011.2	840.4	765.2
42.5°	1053.2	1039.1	941.5	745.9	662.7
45°	982.1	965.4	826.7	597.6	512.4
47.5°	911.8	889.7	709.2	462.9	389.8
50°	862.6	839.2	628.6	381.3	322.8
52.5°	813.4	790.0	546.6	320.1	273.6
55°	743.0	711.3	427.0	245.3	215.2
57.5°	671.3	625.8	318.0	191.1	167.7
60°	623.4	563.3	257.9	158.5	141.8
62.5°	577.0	500.8	211.5	138.3	134.9
65°	503.9	405.3	155.4	124.6	123.0
67.5°	434.2	309.3	115.5	112.4	110.7
70°	380.9	243.9	105.9	104.2	102.5
72.5°	333.1	186.8	96.3	94.6	92.9
75°	266.5	116.1	82.0	80.2	78.6
77.5°	199.2	73.2	67.6	65.9	64.2
80°	155.4	60.2	58.1	56.3	54.7
82.5°	117.2	48.7	47.1	45.4	43.7
85°	63.2	31.5	32.5	29.0	27.3
87.5°	21.9	15.4	15.4	12.9	11.5
90°	0.0	1.0	2.0	3.0	3.0
92.5°	2.4	3.4	4.5	6.3	7.1
95°	8.1	15.1	8.1	9.2	11.2
97.5°	14.4	28.9	59.7	17.6	15.2
100°	19.3	36.1	119.7	35.2	23.3
102.5°	24.1	41.8	161.9	93.0	50.9
105°	31.4	48.3	183.6	234.6	155.2
107.5°	38.8	51.5	175.3	341.4	319.8
110°	43.6	55.5	170.4	358.7	385.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.5	60.4	165.6	348.6	393.6
115°	55.8	67.7	158.3	328.9	384.5
117.5°	63.3	75.0	156.4	307.7	364.8
120°	69.0	79.9	153.2	291.5	351.0
122.5°	73.0	84.7	149.1	277.6	332.3
125°	80.1	91.1	149.1	260.8	308.4
127.5°	86.0	97.1	149.3	241.3	288.3
130°	89.3	101.2	150.1	228.3	272.9
132.5°	93.3	105.2	150.1	222.4	259.1
135°	99.4	110.3	150.1	214.8	246.5
137.5°	104.5	116.2	150.1	206.4	233.5
140°	108.6	119.5	150.1	201.4	226.2
142.5°	112.6	122.7	151.0	195.7	218.9
145°	117.7	127.6	151.2	187.1	207.0
147.5°	123.8	132.5	152.4	180.9	196.2
150°	127.8	135.8	153.2	176.8	189.7
152.5°	131.9	139.0	153.2	173.5	184.0
155°	138.0	142.9	154.2	169.6	177.5
157.5°	142.8	147.6	155.4	167.1	172.9
160°	146.1	150.1	156.2	165.5	170.4
162.5°	148.5	152.5	157.0	164.6	168.0
165°	153.2	155.2	158.3	162.4	165.4
167.5°	155.8	157.6	159.3	161.3	163.1
170°	158.3	159.3	159.3	161.3	162.3
172.5°	159.1	160.9	160.1	160.5	161.5
175°	161.3	162.3	161.3	160.3	159.3
177.5°	161.3	162.1	161.3	161.3	160.5
180°	161.3	161.3	161.3	161.3	161.3



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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	18.65	19.77	19.32	20.44	21.22	10.89	12.00	11.55	12.67	13.45
	3H	20.17	21.16	20.85	21.84	22.66	12.26	13.26	12.94	13.94	14.75
	4H	20.69	21.63	21.39	22.32	23.15	12.93	13.86	13.63	14.56	15.38
	6H	21.10	21.96	21.81	22.67	23.51	13.53	14.39	14.24	15.09	15.93
	8H	21.24	22.06	21.96	22.78	23.63	13.76	14.58	14.48	15.30	16.15
	12H	21.33	22.11	22.05	22.83	23.70	13.93	14.71	14.66	15.43	16.30
4H	2H	18.51	19.45	19.22	20.14	20.97	11.54	12.47	12.24	13.16	13.99
	3H	20.17	20.95	20.89	21.68	22.52	13.11	13.88	13.82	14.62	15.46
	4H	20.77	21.47	21.50	22.21	23.08	13.91	14.61	14.64	15.35	16.22
	6H	21.28	21.88	22.03	22.64	23.53	14.67	15.27	15.41	16.03	16.92
	8H	21.47	22.03	22.22	22.79	23.68	14.96	15.53	15.72	16.28	17.18
	12H	21.61	22.11	22.38	22.89	23.80	15.19	15.70	15.96	16.48	17.38
8H	4H	20.71	21.27	21.46	22.03	22.92	14.39	14.95	15.14	15.71	16.60
	6H	21.25	21.71	22.03	22.51	23.41	15.28	15.74	16.06	16.54	17.44
	8H	21.48	21.90	22.28	22.70	23.61	15.67	16.09	16.46	16.89	17.80
	12H	21.68	22.05	22.48	22.84	23.81	16.00	16.37	16.79	17.15	18.13
12H	4H	20.67	21.17	21.44	21.95	22.85	14.45	14.95	15.22	15.73	16.63
	6H	21.22	21.64	22.02	22.44	23.35	15.39	15.81	16.18	16.61	17.52
	8H	21.47	21.84	22.27	22.63	23.60	15.84	16.21	16.64	17.00	17.97