

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: P621418

Luminaire Tested: VLT-F-025U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621418
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-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

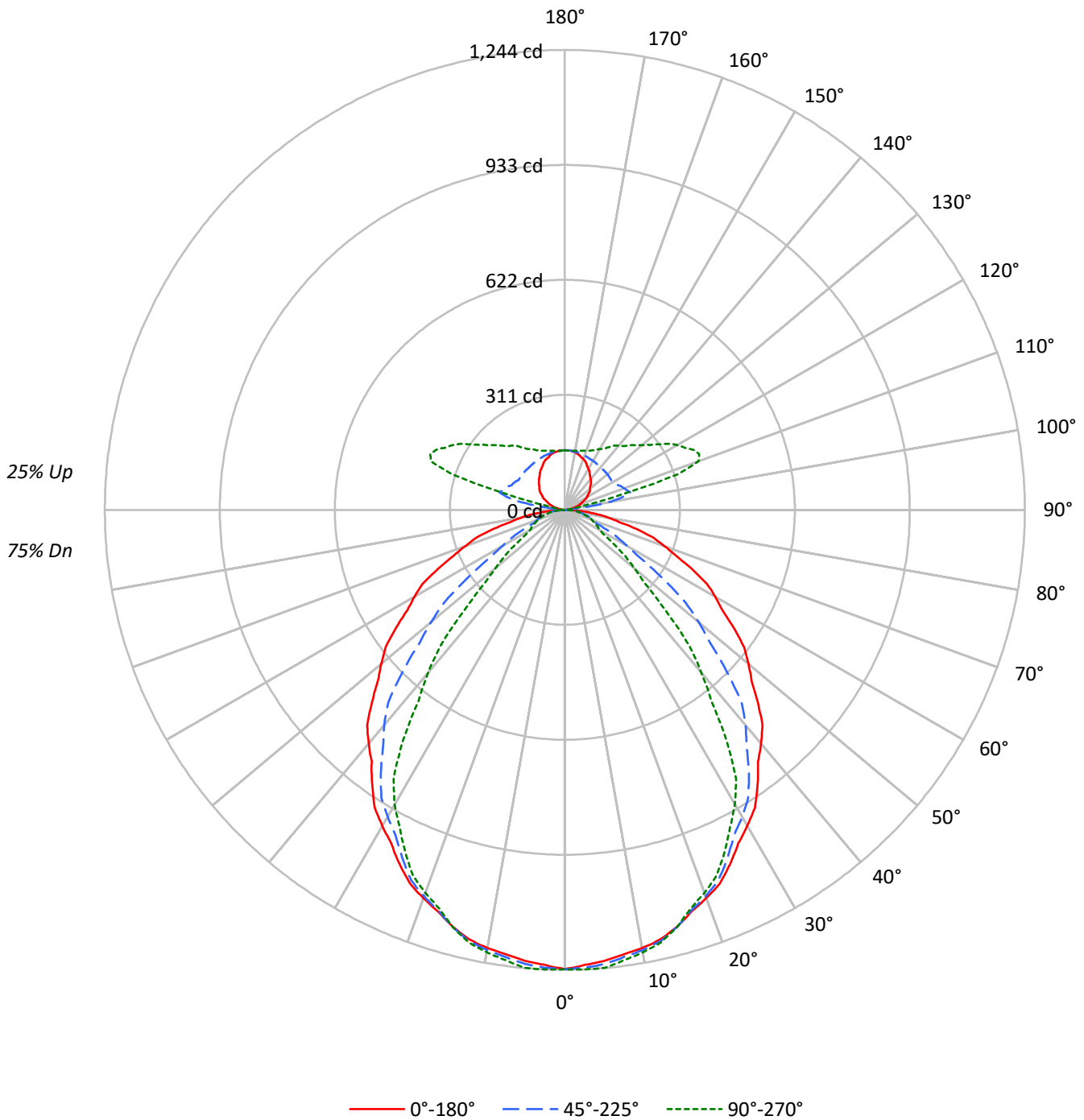
Lumens per Lamp: N/A
Luminaire Lumens: 3400.3 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	0
RCR																		
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75
1	104	100	97	93	99	96	92	89	87	84	82	79	77	75	71	70	69	65
2	96	89	83	78	91	85	80	75	77	73	70	70	67	64	64	62	59	56
3	88	79	72	66	84	76	69	64	69	64	60	63	59	56	58	55	52	49
4	81	71	63	57	77	68	61	56	62	57	52	57	53	49	52	49	46	43
5	75	64	56	50	71	61	54	49	56	50	46	52	47	43	48	44	40	38
6	70	58	50	44	66	56	48	43	51	45	41	47	42	38	44	39	36	34
7	65	53	45	39	62	51	43	38	47	41	36	43	38	34	40	36	33	30
8	60	48	41	35	58	46	39	34	43	37	33	40	35	31	37	33	29	27
9	57	44	37	32	54	43	36	31	40	34	30	37	32	28	34	30	27	25
10	53	41	34	29	51	40	33	28	37	31	27	34	29	26	32	28	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8916	8916	8916
5°	8821	8885	8959
10°	8772	8810	8857
15°	8677	8687	8687
20°	8538	8498	8419
25°	8374	8232	8090
30°	8178	7945	7626
35°	7960	7601	6690
40°	7731	7117	5386
45°	7489	6304	3908
50°	7236	5273	2708
55°	6985	4015	2023
60°	6724	2781	1528
65°	6429	1983	1569
70°	6005	1670	1616
75°	5551	1708	1636
80°	4827	1802	1698
85°	3911	2009	1688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.4
10°-20°	329.2	9.7
20°-30°	478.9	14.1
30°-40°	529.8	15.6
40°-50°	454.9	13.4
50°-60°	314.9	9.3
60°-70°	187.7	5.5
70°-80°	92.5	2.7
80°-90°	28.9	0.8
90°-100°	19.8	0.6
100°-110°	141.3	4.2
110°-120°	191.9	5.6
120°-130°	156.1	4.6
130°-140°	125.6	3.7
140°-150°	99.0	2.9
150°-160°	72.4	2.1
160°-170°	45.0	1.3
170°-180°	15.3	0.5
0°-30°	925.2	27.2
0°-40°	1455.0	42.8
0°-60°	2224.8	65.4
0°-90°	2533.9	74.5
90°-120°	353.0	10.4
90°-150°	733.8	21.6
90°-180°	866.0	25.5
0°-180°	3400.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1224	1243	1234	1232	1244	116
15°	1168	1183	1169	1163	1169	329
25°	1058	1065	1040	1022	1022	487
35°	909	906	868	798	764	568
45°	738	726	621	449	385	569
55°	558	534	321	184	162	499
65°	379	305	117	94	92	375
75°	200	87	62	60	59	211
85°	48	24	24	22	20	55
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°	1242.5	1242.5	1242.5	1242.5	1242.5
2.5°	1232.2	1246.2	1239.4	1239.5	1244.5
5°	1224.5	1243.3	1233.5	1232.4	1243.7
7.5°	1213.2	1230.5	1220.4	1219.1	1228.8
10°	1203.9	1220.3	1209.1	1206.7	1215.5
12.5°	1190.6	1206.9	1194.7	1190.3	1199.1
15°	1168.0	1183.1	1169.3	1163.0	1169.3
17.5°	1139.5	1152.1	1136.4	1126.5	1130.3
20°	1118.0	1130.5	1112.8	1098.8	1102.5
22.5°	1094.3	1104.9	1085.1	1069.0	1071.7
25°	1057.6	1065.2	1039.7	1021.7	1021.7
27.5°	1016.8	1021.3	991.7	972.8	967.5
30°	987.0	989.5	958.8	936.6	920.3
32.5°	956.2	957.7	922.9	887.1	861.8
35°	908.7	906.2	867.7	797.6	763.7
37.5°	858.2	852.6	807.1	700.4	650.0
40°	825.3	817.8	759.8	631.5	575.0
42.5°	791.4	780.9	707.5	560.5	498.0
45°	738.0	725.5	621.2	449.1	385.1
47.5°	685.1	668.6	532.9	347.9	292.9
50°	648.2	630.6	472.3	286.5	242.6
52.5°	611.2	593.6	410.7	240.5	205.6
55°	558.3	534.5	320.9	184.3	161.7
57.5°	504.4	470.3	239.0	143.6	126.0
60°	468.5	423.3	193.8	119.1	106.5
62.5°	433.6	376.3	158.9	103.9	101.4
65°	378.6	304.6	116.8	93.7	92.4
67.5°	326.3	232.4	86.8	84.4	83.2
70°	286.2	183.3	79.6	78.3	77.0
72.5°	250.3	140.3	72.4	71.1	69.8
75°	200.2	87.3	61.6	60.3	59.0
77.5°	149.7	55.0	50.8	49.5	48.3
80°	116.8	45.3	43.6	42.3	41.1
82.5°	88.0	36.6	35.4	34.1	32.9
85°	47.5	23.6	24.4	21.8	20.5
87.5°	16.4	11.6	11.7	9.8	8.8
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	17.28	18.33	18.00	19.06	19.94	9.51	10.56	10.24	11.30	12.17
	3H	18.79	19.72	19.53	20.47	21.38	10.88	11.82	11.62	12.56	13.47
	4H	19.31	20.19	20.07	20.95	21.87	11.54	12.42	12.30	13.18	14.10
	6H	19.72	20.53	20.49	21.29	22.23	12.14	12.95	12.91	13.72	14.65
	8H	19.85	20.62	20.63	21.41	22.34	12.37	13.14	13.15	13.93	14.86
	12H	19.94	20.67	20.72	21.45	22.41	12.54	13.28	13.33	14.06	15.02
4H	2H	17.13	18.01	17.89	18.77	19.69	10.15	11.03	10.91	11.79	12.71
	3H	18.79	19.51	19.56	20.31	21.24	11.72	12.45	12.49	13.24	14.18
	4H	19.38	20.04	20.17	20.84	21.80	12.52	13.18	13.31	13.98	14.94
	6H	19.88	20.45	20.69	21.27	22.25	13.27	13.84	14.08	14.66	15.63
	8H	20.07	20.61	20.88	21.42	22.41	13.57	14.10	14.38	14.91	15.90
	12H	20.21	20.69	21.04	21.52	22.51	13.79	14.27	14.62	15.10	16.09
8H	4H	19.31	19.84	20.12	20.66	21.64	12.99	13.52	13.80	14.34	15.32
	6H	19.85	20.29	20.69	21.15	22.13	13.88	14.32	14.72	15.17	16.16
	8H	20.09	20.48	20.94	21.33	22.33	14.27	14.66	15.12	15.52	16.52
	12H	20.28	20.63	21.13	21.47	22.53	14.60	14.94	15.45	15.79	16.85
12H	4H	19.27	19.75	20.10	20.58	21.57	13.05	13.52	13.88	14.36	15.35
	6H	19.82	20.22	20.67	21.07	22.07	13.99	14.38	14.84	15.24	16.24
	8H	20.07	20.42	20.92	21.26	22.32	14.44	14.79	15.29	15.63	16.69