

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: P622000

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622000
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-32)
Test Lab: INNOVATION CENTER
Issue Date: 10/28/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-WB-M-025U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

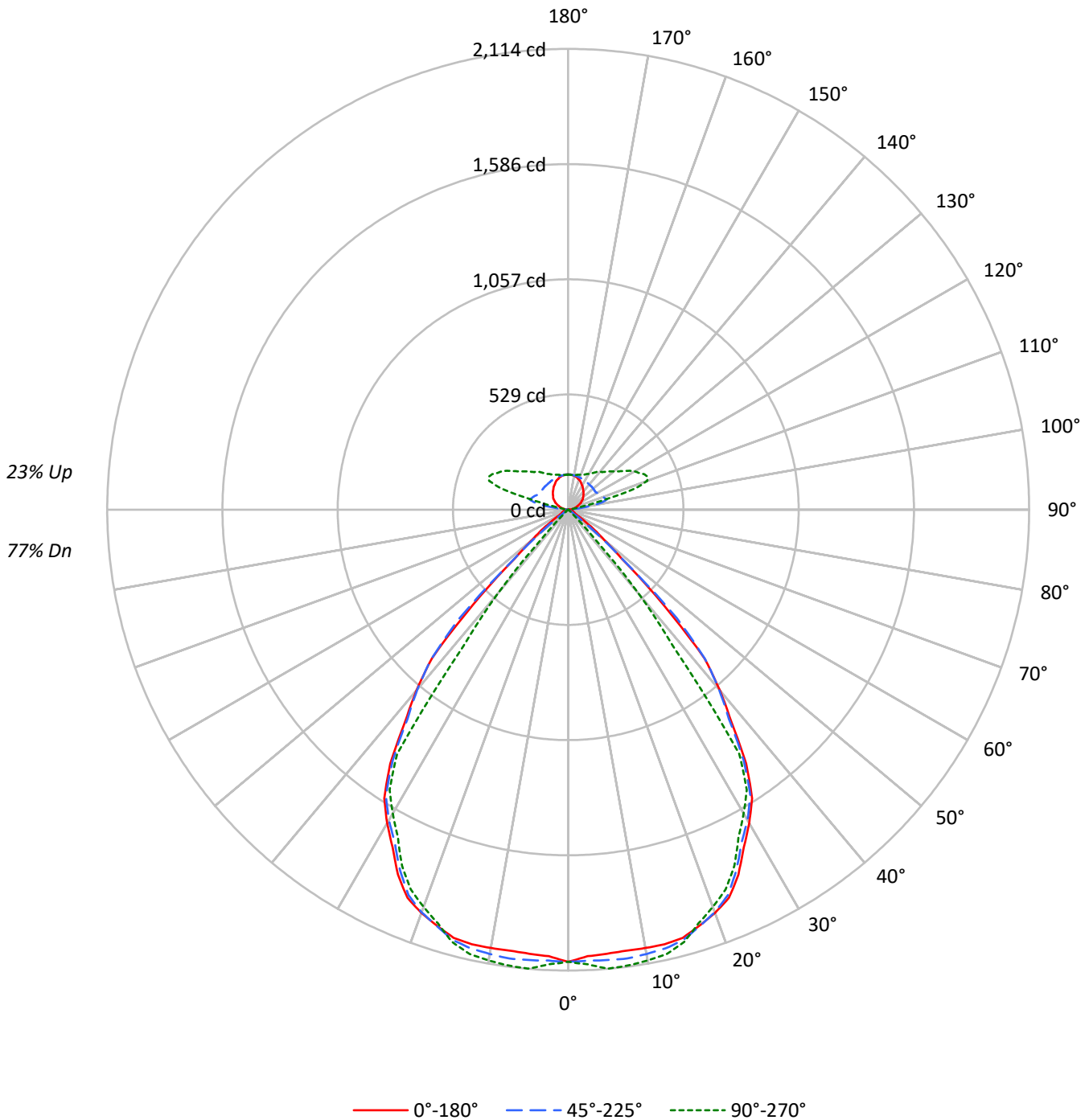
Lumens per Lamp: N/A
Luminaire Lumens: 3745.1 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 37.1
Input Voltage (V): 120
Input Current (A_{in}): 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: P622000
CATALOG NUMBER: VLT-WB-M-025U-075D-930-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P622000

CATALOG NUMBER: VLT-WB-M-025U-075D-930-UNV-STD-W-4

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	114	114	114	114	108	108	108	108	98	98	98		89	89	89		81	81	81	77
1	107	104	101	98	102	99	97	94	91	89	87		83	82	81		76	75	74	71
2	100	94	90	86	96	91	87	83	84	81	78		77	75	73		71	69	68	65
3	94	86	81	76	90	83	78	74	77	73	70		72	68	66		66	64	62	59
4	88	79	73	68	84	76	71	66	71	67	63		66	63	60		62	59	57	54
5	82	73	66	61	79	70	64	60	66	61	57		62	58	54		58	55	52	50
6	77	67	60	55	74	65	59	54	61	56	52		57	53	50		54	50	48	46
7	72	62	55	50	69	60	54	49	57	51	47		53	49	46		50	47	44	42
8	68	57	51	46	65	56	49	45	53	47	44		50	45	42		47	43	40	39
9	64	53	47	42	62	52	46	41	49	44	40		46	42	39		44	40	37	36
10	60	50	43	39	58	48	42	38	46	41	37		44	39	36		41	38	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14882	14882	14882
5°	14727	14939	15224
10°	14876	15079	15304
15°	15102	15178	15254
20°	15030	15007	14806
25°	14619	14444	14270
30°	13755	13621	13329
35°	12459	12278	11983
40°	10133	10064	4757
45°	6271	7149	328
50°	2392	1917	196
55°	1175	349	74
60°	568	168	22
65°	523	25	25
70°	493	31	31
75°	488	42	42
80°	483	62	0
85°	486	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 7149 cd/sqm



TEST NUMBER: P622000

CATALOG NUMBER: VLT-WB-M-025U-075D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	5.3
10°-20°	574.5	15.3
20°-30°	835.4	22.3
30°-40°	831.3	22.2
40°-50°	365.6	9.8
50°-60°	54.0	1.4
60°-70°	12.3	0.3
70°-80°	4.6	0.1
80°-90°	1.4	0.0
90°-100°	19.9	0.5
100°-110°	141.6	3.8
110°-120°	192.2	5.1
120°-130°	156.4	4.2
130°-140°	125.8	3.4
140°-150°	99.2	2.6
150°-160°	72.5	1.9
160°-170°	45.0	1.2
170°-180°	15.4	0.4
0°-30°	1608.0	42.9
0°-40°	2439.3	65.1
0°-60°	2858.8	76.3
0°-90°	2877.2	76.8
90°-120°	353.6	9.4
90°-150°	735.0	19.6
90°-180°	868.0	23.2
0°-180°	3745.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2044	2080	2074	2079	2114	195
15°	2033	2076	2043	2023	2053	572
25°	1846	1881	1824	1776	1802	844
35°	1422	1418	1402	1372	1368	871
45°	618	703	704	47	32	478
55°	94	101	28	10	6	95
65°	31	26	2	2	2	31
75°	18	3	2	2	2	19
85°	6	0	0	0	0	6
90°	0	1	2	3	3	1
95°	8	15	8	9	11	9
105°	32	48	184	235	156	33
115°	56	68	158	330	385	55
125°	80	91	149	261	309	71
135°	100	110	150	215	247	77
145°	118	128	151	187	207	74
155°	138	143	154	170	178	63
165°	154	155	158	163	166	43
175°	162	163	162	160	160	15
180°	162	162	162	162	162	



TEST NUMBER: P622000

CATALOG NUMBER: VLT-WB-M-025U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2073.9	2073.9	2073.9	2073.9	2073.9
2.5°	2050.4	2081.4	2070.3	2069.6	2087.9
5°	2044.5	2080.4	2073.9	2079.0	2113.5
7.5°	2040.4	2076.6	2076.5	2074.0	2108.5
10°	2041.6	2078.9	2069.4	2065.8	2100.3
12.5°	2041.6	2081.2	2061.2	2051.8	2087.4
15°	2032.8	2075.8	2043.0	2023.2	2053.3
17.5°	2001.1	2047.8	2002.8	1964.1	1989.3
20°	1968.2	2018.4	1965.2	1915.9	1938.8
22.5°	1927.1	1971.6	1913.6	1861.9	1886.0
25°	1846.4	1880.8	1824.3	1776.5	1802.3
27.5°	1744.5	1763.4	1721.3	1675.3	1692.0
30°	1660.0	1674.3	1643.8	1600.0	1608.6
32.5°	1569.6	1579.3	1554.6	1516.6	1524.1
35°	1422.2	1417.9	1401.6	1372.2	1367.9
37.5°	1229.6	1222.2	1211.7	1097.8	787.3
40°	1081.7	1084.6	1074.4	671.4	507.8
42.5°	925.5	943.3	928.8	457.2	166.1
45°	617.9	702.6	704.5	46.6	32.3
47.5°	334.0	426.2	346.7	28.9	23.5
50°	214.3	267.4	171.7	21.9	17.6
52.5°	153.2	178.8	67.2	17.2	12.9
55°	93.9	101.1	27.9	10.2	5.9
57.5°	56.1	66.7	17.6	3.8	1.5
60°	39.6	46.8	11.7	1.5	1.5
62.5°	34.9	35.2	8.2	1.5	1.5
65°	30.8	26.5	1.5	1.5	1.5
67.5°	27.0	19.3	1.5	1.5	1.5
70°	23.5	13.4	1.5	1.5	1.5
72.5°	21.1	8.8	1.5	1.5	1.5
75°	17.6	3.3	1.5	1.5	1.5
77.5°	14.1	1.7	1.5	1.2	1.2
80°	11.7	1.7	1.5	0.0	0.0
82.5°	9.4	1.6	0.3	0.0	0.0
85°	5.9	0.1	0.0	0.0	0.0
87.5°	2.3	0.3	0.4	0.6	0.6
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	59.8	17.6	15.2
100°	19.3	36.2	119.9	35.3	23.4
102.5°	24.2	41.9	162.2	93.1	51.0
105°	31.5	48.4	183.9	235.0	155.5
107.5°	38.8	51.5	175.6	342.0	320.3
110°	43.7	55.6	170.7	359.3	386.2



TEST NUMBER: P622000

CATALOG NUMBER: VLT-WB-M-025U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.6	60.5	165.8	349.2	394.3
115°	55.9	67.8	158.5	329.5	385.2
117.5°	63.4	75.1	156.7	308.2	365.4
120°	69.1	80.0	153.5	292.0	351.6
122.5°	73.2	84.9	149.4	278.1	332.9
125°	80.3	91.2	149.4	261.2	308.9
127.5°	86.2	97.3	149.6	241.7	288.8
130°	89.4	101.4	150.4	228.7	273.4
132.5°	93.5	105.4	150.4	222.8	259.5
135°	99.6	110.5	150.4	215.1	246.9
137.5°	104.7	116.4	150.4	206.7	233.9
140°	108.7	119.7	150.4	201.8	226.6
142.5°	112.8	122.9	151.2	196.1	219.3
145°	117.9	127.8	151.4	187.4	207.3
147.5°	124.0	132.7	152.6	181.2	196.5
150°	128.0	136.0	153.5	177.1	190.0
152.5°	132.1	139.3	153.5	173.8	184.3
155°	138.2	143.2	154.5	169.9	177.8
157.5°	143.1	147.9	155.7	167.4	173.2
160°	146.3	150.3	156.5	165.8	170.7
162.5°	148.8	152.8	157.3	164.9	168.3
165°	153.5	155.4	158.5	162.7	165.6
167.5°	156.1	157.9	159.5	161.6	163.4
170°	158.5	159.5	159.5	161.6	162.6
172.5°	159.3	161.1	160.4	160.8	161.8
175°	161.6	162.6	161.6	160.5	159.5
177.5°	161.6	162.4	161.6	161.6	160.8
180°	161.6	161.6	161.6	161.6	161.6



TEST NUMBER: P622000

CATALOG NUMBER: VLT-WB-M-025U-075D-930-UNV-STD-W-4

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	3.71	4.55	4.44	5.27	6.11	0.00	0.00	0.00	0.00	0.00
	3H	4.16	4.90	4.90	5.63	6.50	0.00	0.00	0.00	0.00	0.00
	4H	4.32	5.01	5.08	5.75	6.64	0.00	0.00	0.00	0.00	0.00
	6H	4.51	5.14	5.28	5.89	6.79	0.00	0.00	0.00	0.00	0.00
	8H	4.59	5.19	5.37	5.95	6.86	0.00	0.00	0.00	0.00	0.00
	12H	4.66	5.23	5.44	5.99	6.91	0.00	0.00	0.00	0.00	0.00
4H	2H	3.42	4.11	4.19	4.85	5.74	0.00	0.00	0.00	0.00	0.00
	3H	3.90	4.47	4.67	5.24	6.15	0.00	0.00	0.00	0.00	0.00
	4H	4.08	4.59	4.86	5.36	6.30	0.00	0.00	0.00	0.00	0.00
	6H	4.31	4.74	5.11	5.54	6.49	0.00	0.00	0.00	0.00	0.00
	8H	4.43	4.83	5.23	5.63	6.58	0.00	0.00	0.00	0.00	0.00
	12H	4.54	4.90	5.36	5.71	6.67	0.00	0.00	0.00	0.00	0.00
8H	4H	3.91	4.31	4.71	5.10	6.06	0.00	0.00	0.00	0.00	0.00
	6H	4.14	4.47	4.97	5.30	6.26	0.00	0.00	0.00	0.00	0.00
	8H	4.27	4.56	5.11	5.40	6.37	0.00	0.00	0.00	0.00	0.00
	12H	4.41	4.66	5.25	5.49	6.52	0.00	0.00	0.00	0.00	0.00
12H	4H	3.84	4.20	4.66	5.01	5.97	0.00	0.00	0.00	0.00	0.00
	6H	4.07	4.36	4.92	5.20	6.17	0.00	0.00	0.00	0.00	0.00
	8H	4.21	4.46	5.05	5.28	6.32	0.00	0.00	0.00	0.00	0.00