

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: P621941

Luminaire Tested: VLT-BB-M-075U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621941
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-26)
Test Lab: INNOVATION CENTER
Issue Date: 10/28/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-BB-M-075U-075D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

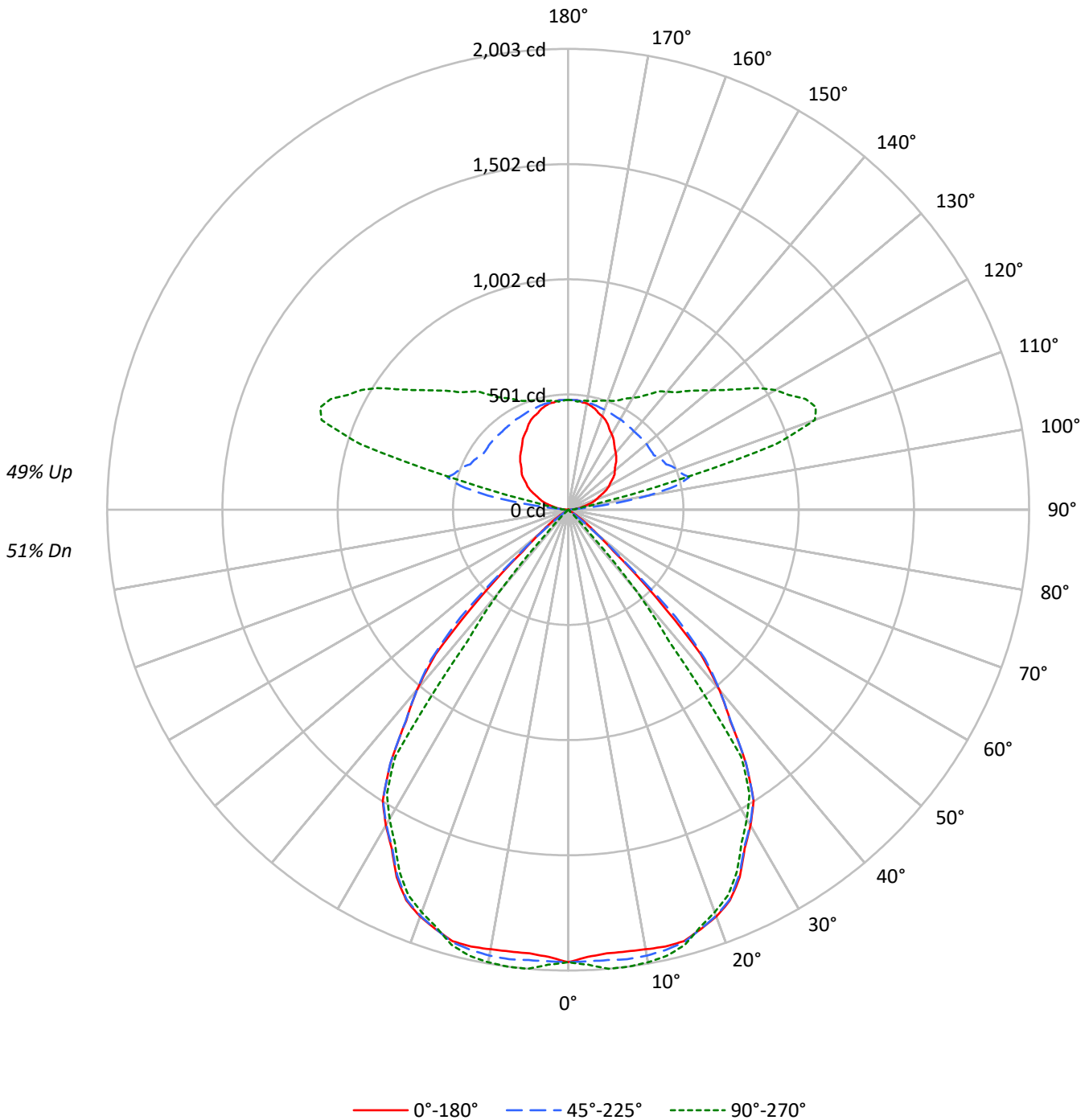
Lumens per Lamp: N/A
Luminaire Lumens: 5273.5 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.7
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: P621941
CATALOG NUMBER: VLT-BB-M-075U-075D-935-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621941

CATALOG NUMBER: VLT-BB-M-075U-075D-935-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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				51
1	100	97	94	91	93	90	87	85	77	75	73	65	64	63	54	53	53	47				47
2	93	87	82	78	86	81	77	73	70	67	64	60	58	56	50	49	48	44				44
3	87	79	73	68	80	74	68	64	64	60	57	55	53	50	47	45	44	40				40
4	81	71	65	60	75	67	61	57	59	54	51	51	48	45	44	42	40	37				37
5	75	65	58	53	70	61	55	51	54	49	46	47	44	41	41	38	36	33				33
6	70	59	52	47	65	56	50	45	50	45	41	44	40	37	38	35	33	31				31
7	65	55	48	43	61	52	45	41	46	41	38	40	37	34	35	33	31	28				28
8	61	50	43	39	57	48	41	37	42	38	34	38	34	31	33	30	28	26				26
9	57	46	40	35	54	44	38	34	39	35	31	35	31	29	31	28	26	24				24
10	54	43	36	32	50	41	35	31	37	32	29	33	29	26	29	26	24	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14111	14111	14111
5°	13944	14155	14430
10°	14137	14340	14554
15°	14424	14457	14544
20°	14368	14345	14211
25°	13957	13899	13736
30°	13123	13099	12856
35°	11793	11806	11472
40°	9575	9575	4382
45°	5506	6697	89
50°	1735	1604	81
55°	606	129	74
60°	42	85	85
65°	25	75	75
70°	31	92	92
75°	0	80	80
80°	0	120	120
85°	0	124	124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6697 cd/sqm



TEST NUMBER: P621941

CATALOG NUMBER: VLT-BB-M-075U-075D-935-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	3.6
10°-20°	548.3	10.4
20°-30°	801.0	15.2
30°-40°	793.3	15.0
40°-50°	332.1	6.3
50°-60°	35.5	0.7
60°-70°	5.0	0.1
70°-80°	3.0	0.1
80°-90°	2.5	0.0
90°-100°	58.7	1.1
100°-110°	418.3	7.9
110°-120°	567.9	10.8
120°-130°	462.2	8.8
130°-140°	371.7	7.0
140°-150°	293.1	5.6
150°-160°	214.3	4.1
160°-170°	133.1	2.5
170°-180°	45.4	0.9
0°-30°	1537.3	29.2
0°-40°	2330.6	44.2
0°-60°	2698.3	51.2
0°-90°	2708.8	51.4
90°-120°	1044.9	19.8
90°-150°	2171.9	41.2
90°-180°	2565.0	48.6
0°-180°	5273.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1966	1966	1966	1966	1966	
5°	1936	1970	1965	1970	2003	185
15°	1942	1982	1946	1932	1958	545
25°	1763	1793	1755	1713	1735	805
35°	1346	1349	1348	1321	1310	826
45°	543	644	660	13	9	426
55°	48	64	10	7	6	54
65°	2	6	4	4	4	2
75°	0	3	3	3	3	0
85°	0	1	2	2	2	0
90°	0	3	6	9	9	1
95°	24	45	24	27	33	27
105°	93	143	544	694	459	98
115°	165	200	468	974	1138	164
125°	237	270	441	772	913	211
135°	294	327	444	636	730	226
145°	348	378	447	554	613	219
155°	408	423	456	502	526	187
165°	453	459	468	481	490	127
175°	478	480	478	474	471	45
180°	478	478	478	478	478	



TEST NUMBER: P621941

CATALOG NUMBER: VLT-BB-M-075U-075D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1966.5	1966.5	1966.5	1966.5	1966.5
2.5°	1945.4	1972.9	1964.2	1962.2	1979.4
5°	1935.7	1970.1	1965.1	1970.2	2003.2
7.5°	1936.6	1968.4	1970.3	1970.2	2003.2
10°	1940.1	1973.1	1968.0	1964.3	1997.3
12.5°	1944.8	1978.9	1959.8	1953.8	1985.6
15°	1941.6	1981.7	1946.0	1931.9	1957.7
17.5°	1912.0	1958.4	1911.4	1884.2	1903.2
20°	1881.5	1930.2	1878.5	1840.9	1860.9
22.5°	1838.1	1883.4	1834.0	1790.5	1814.0
25°	1762.7	1792.8	1755.4	1713.3	1734.8
27.5°	1660.0	1677.2	1655.9	1618.1	1631.3
30°	1583.8	1595.3	1580.8	1542.9	1551.5
32.5°	1499.3	1505.0	1496.4	1461.9	1465.9
35°	1346.2	1349.1	1347.7	1321.0	1309.6
37.5°	1157.0	1162.8	1159.4	1043.5	720.0
40°	1022.1	1027.9	1022.1	611.2	467.8
42.5°	853.2	889.9	880.2	416.8	133.4
45°	542.6	644.4	659.9	13.1	8.8
47.5°	268.1	377.9	310.3	8.5	8.5
50°	155.4	222.8	143.7	7.3	7.3
52.5°	103.8	135.7	41.6	7.3	7.3
55°	48.4	64.2	10.3	7.3	5.9
57.5°	17.0	32.2	7.0	5.9	5.9
60°	2.9	15.8	5.9	5.9	5.9
62.5°	1.8	8.9	5.9	4.7	5.9
65°	1.5	5.8	4.4	4.4	4.4
67.5°	1.5	4.3	4.4	4.4	4.4
70°	1.5	4.3	4.4	4.4	4.4
72.5°	0.3	3.2	3.2	3.3	4.4
75°	0.0	2.9	2.9	2.9	2.9
77.5°	0.0	2.9	2.9	2.9	2.9
80°	0.0	2.9	2.9	2.9	2.9
82.5°	0.0	1.7	1.8	1.8	2.9
85°	0.0	1.4	1.5	1.5	1.5
87.5°	0.0	1.7	2.4	3.0	3.0
90°	0.0	2.9	6.0	9.0	9.0
92.5°	7.2	10.1	13.2	18.7	21.0
95°	24.0	44.6	24.0	27.2	33.0
97.5°	42.6	85.5	176.6	52.1	45.0
100°	57.1	107.0	354.3	104.3	69.1
102.5°	71.5	123.7	479.3	275.2	150.7
105°	93.1	143.0	543.5	694.3	459.4
107.5°	114.7	152.3	518.9	1010.5	946.5
110°	129.1	164.4	504.5	1061.8	1141.1



TEST NUMBER: P621941

CATALOG NUMBER: VLT-BB-M-075U-075D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	143.5	178.8	490.1	1031.8	1165.1
115°	165.2	200.4	468.4	973.7	1138.1
117.5°	187.4	222.0	463.0	910.7	1079.8
120°	204.2	236.5	453.4	862.8	1039.0
122.5°	216.2	250.9	441.4	821.7	983.7
125°	237.2	269.5	441.4	771.9	912.9
127.5°	254.6	287.5	442.0	714.2	853.4
130°	264.3	299.5	444.4	675.6	807.8
132.5°	276.3	311.5	444.4	658.3	766.9
135°	294.3	326.6	444.4	635.7	729.7
137.5°	309.3	343.9	444.4	610.8	691.3
140°	321.3	353.6	444.4	596.2	669.6
142.5°	333.3	363.3	446.8	579.3	648.0
145°	348.3	377.7	447.4	553.9	612.6
147.5°	366.3	392.2	451.0	535.5	580.8
150°	378.4	401.8	453.4	523.4	561.5
152.5°	390.4	411.5	453.4	513.6	544.7
155°	408.4	423.1	456.4	502.0	525.5
157.5°	422.8	436.9	460.0	494.7	511.7
160°	432.4	444.2	462.4	489.8	504.5
162.5°	439.6	451.4	464.8	487.3	497.3
165°	453.4	459.3	468.4	480.7	489.5
167.5°	461.2	466.5	471.4	477.6	482.9
170°	468.4	471.4	471.4	477.5	480.5
172.5°	470.8	476.1	473.8	475.1	478.1
175°	477.5	480.4	477.5	474.4	471.4
177.5°	477.5	479.8	477.5	477.4	475.1
180°	477.5	477.5	477.5	477.5	477.5



TEST NUMBER: P621941

CATALOG NUMBER: VLT-BB-M-075U-075D-935-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00