

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: P622058

Luminaire Tested: VLT-WB-M-125U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622058
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-125U-050D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

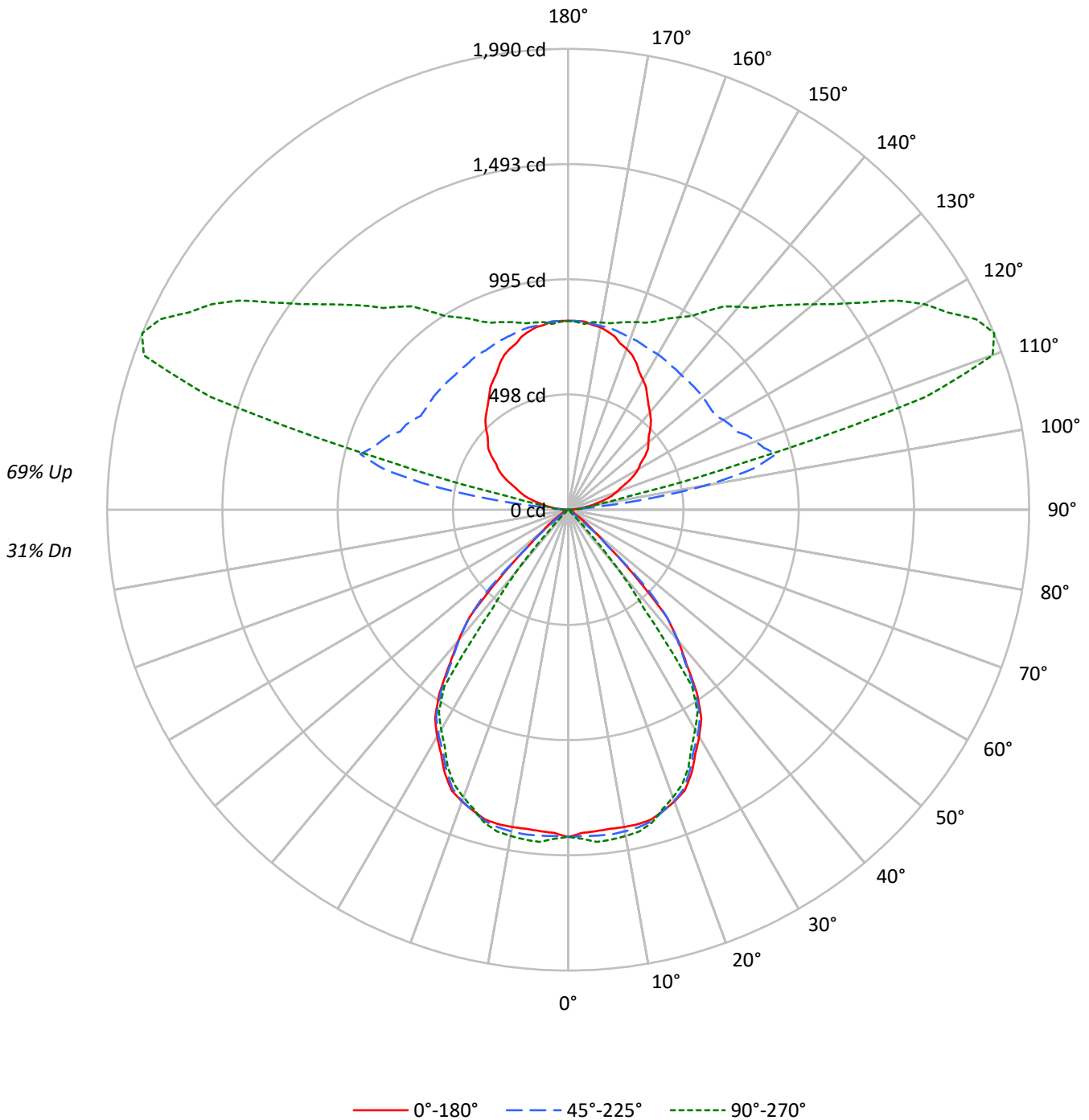
Lumens per Lamp: N/A
Luminaire Lumens: 6343.4 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62
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



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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	103	103	103	103	92	92	92	92	73	73	73		55	55	55		39	39	39	31
1	95	91	88	85	85	82	79	77	65	64	62		50	49	48		36	35	35	29
2	87	81	76	71	79	73	69	65	59	56	54		46	44	42		33	32	32	26
3	81	72	66	61	73	66	61	56	53	50	47		42	39	37		31	30	29	24
4	74	65	58	53	67	59	53	49	48	44	41		38	35	33		29	27	26	22
5	69	59	52	46	62	54	47	43	44	40	36		35	32	30		26	25	23	20
6	64	53	46	41	58	49	42	38	40	36	32		32	29	27		25	23	21	18
7	59	48	41	36	54	44	38	34	37	32	29		30	27	24		23	21	20	17
8	55	44	37	32	50	41	35	30	34	29	26		27	24	22		21	19	18	16
9	51	40	34	29	47	37	31	27	31	27	24		25	22	20		20	18	17	14
10	48	37	31	26	44	34	29	25	29	25	22		24	21	18		19	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10140	10140	10140
5°	10034	10178	10373
10°	10136	10274	10427
15°	10289	10341	10393
20°	10241	10225	10088
25°	9961	9842	9723
30°	9372	9280	9082
35°	8489	8366	8165
40°	6904	6857	3241
45°	4272	4871	223
50°	1630	1306	134
55°	801	238	50
60°	388	115	14
65°	357	17	17
70°	336	21	21
75°	333	28	28
80°	331	41	0
85°	329	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 4871 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	2.1
10°-20°	391.5	6.2
20°-30°	569.2	9.0
30°-40°	566.4	8.9
40°-50°	249.1	3.9
50°-60°	36.8	0.6
60°-70°	8.4	0.1
70°-80°	3.1	0.0
80°-90°	2.6	0.0
90°-100°	100.3	1.6
100°-110°	714.6	11.3
110°-120°	970.2	15.3
120°-130°	789.6	12.4
130°-140°	635.1	10.0
140°-150°	500.7	7.9
150°-160°	366.1	5.8
160°-170°	227.4	3.6
170°-180°	77.5	1.2
0°-30°	1095.6	17.3
0°-40°	1662.0	26.2
0°-60°	1947.8	30.7
0°-90°	1961.9	30.9
90°-120°	1785.1	28.1
90°-150°	3710.5	58.5
90°-180°	4382.0	69.1
0°-180°	6343.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1413	1413	1413	1413	1413	
5°	1393	1417	1413	1416	1440	133
15°	1385	1414	1392	1378	1399	389
25°	1258	1282	1243	1210	1228	575
35°	969	966	955	935	932	593
45°	421	479	480	32	22	326
55°	64	69	19	7	4	65
65°	21	18	1	1	1	21
75°	12	2	1	1	1	13
85°	4	0	0	0	0	4
90°	0	5	10	15	15	2
95°	41	76	41	46	56	46
105°	159	244	928	1186	785	168
115°	282	342	800	1663	1944	280
125°	405	460	754	1319	1560	360
135°	503	558	759	1086	1247	387
145°	595	645	764	946	1046	374
155°	698	723	780	858	898	320
165°	775	785	800	821	836	218
175°	816	821	816	810	805	77
180°	816	816	816	816	816	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1413.0	1413.0	1413.0	1413.0	1413.0
2.5°	1397.0	1418.1	1410.6	1410.1	1422.6
5°	1393.0	1417.4	1413.0	1416.5	1440.0
7.5°	1390.2	1414.8	1414.8	1413.1	1436.6
10°	1391.0	1416.4	1410.0	1407.5	1431.0
12.5°	1391.0	1418.0	1404.4	1397.9	1422.2
15°	1385.0	1414.3	1392.0	1378.5	1399.0
17.5°	1363.4	1395.3	1364.6	1338.2	1355.4
20°	1341.0	1375.2	1339.0	1305.4	1321.0
22.5°	1313.0	1343.3	1303.8	1268.6	1285.0
25°	1258.0	1281.5	1243.0	1210.4	1228.0
27.5°	1188.6	1201.5	1172.8	1141.5	1152.8
30°	1131.0	1140.8	1120.0	1090.1	1096.0
32.5°	1069.4	1076.0	1059.2	1033.3	1038.4
35°	969.0	966.1	955.0	934.9	932.0
37.5°	837.8	832.7	825.6	748.0	536.4
40°	737.0	739.0	732.0	457.5	346.0
42.5°	630.6	642.7	632.8	311.5	113.2
45°	421.0	478.7	480.0	31.8	22.0
47.5°	227.6	290.4	236.2	19.7	16.0
50°	146.0	182.2	117.0	14.9	12.0
52.5°	104.4	121.8	45.8	11.7	8.8
55°	64.0	68.9	19.0	6.9	4.0
57.5°	38.2	45.4	12.0	2.6	1.0
60°	27.0	31.9	8.0	1.0	1.0
62.5°	23.8	24.0	5.6	1.0	1.0
65°	21.0	18.1	1.0	1.0	1.0
67.5°	18.4	13.1	1.0	1.0	1.0
70°	16.0	9.2	1.0	1.0	1.0
72.5°	14.4	6.0	1.0	1.0	1.0
75°	12.0	2.2	1.0	1.0	1.0
77.5°	9.6	1.2	1.0	0.8	0.8
80°	8.0	1.2	1.0	0.0	0.0
82.5°	6.4	1.1	0.2	0.0	0.0
85°	4.0	0.1	0.0	0.0	0.0
87.5°	1.6	1.0	2.1	3.1	3.1
90°	0.0	5.0	10.3	15.4	15.4
92.5°	12.3	17.3	22.6	31.9	35.9
95°	41.0	76.2	41.0	46.4	56.4
97.5°	72.8	146.1	301.6	89.0	77.0
100°	97.5	182.7	605.3	178.2	118.0
102.5°	122.1	211.4	818.7	470.2	257.5
105°	159.0	244.3	928.5	1186.2	784.9
107.5°	196.0	260.2	886.5	1726.3	1617.0
110°	220.6	280.8	861.8	1814.0	1949.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	245.2	305.4	837.2	1762.7	1990.4
115°	282.2	342.3	800.3	1663.4	1944.3
117.5°	320.1	379.3	791.0	1555.8	1844.8
120°	348.8	404.0	774.6	1474.0	1775.0
122.5°	369.4	428.5	754.1	1403.7	1680.6
125°	405.3	460.4	754.1	1318.8	1559.5
127.5°	435.0	491.2	755.1	1220.2	1457.9
130°	451.4	511.6	759.2	1154.3	1380.0
132.5°	472.0	532.2	759.2	1124.6	1310.2
135°	502.7	557.9	759.2	1086.1	1246.6
137.5°	528.4	587.6	759.2	1043.5	1180.9
140°	548.9	604.1	759.2	1018.6	1144.0
142.5°	569.4	620.6	763.3	989.7	1107.1
145°	595.1	645.2	764.4	946.2	1046.5
147.5°	625.9	670.0	770.5	914.9	992.1
150°	646.4	686.5	774.6	894.1	959.3
152.5°	666.9	703.0	774.6	877.4	930.6
155°	697.7	722.8	779.8	857.6	897.8
157.5°	722.3	746.4	785.9	845.1	874.2
160°	738.7	758.8	790.0	836.8	861.8
162.5°	751.0	771.1	794.1	832.5	849.5
165°	774.6	784.7	800.3	821.1	836.2
167.5°	788.0	797.0	805.4	815.9	824.9
170°	800.3	805.3	805.4	815.8	820.8
172.5°	804.4	813.4	809.5	811.7	816.7
175°	815.7	820.7	815.7	810.4	805.4
177.5°	815.7	819.7	815.7	815.6	811.6
180°	815.7	815.7	815.7	815.7	815.7



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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	0.00	0.00	0.00	0.00	1.08	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	1.47	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.05	1.61	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.19	1.76	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.27	1.82	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.30	1.88	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	1.27	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	1.56	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.06	1.65	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	1.04	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	1.36	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	1.16	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	1.29	0.00	0.00	0.00	0.00	0.00