

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: P622079

Luminaire Tested: VLT-WB-M-150U-125D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622079
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-150U-125D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9902.8 lumens
Efficiency: N/A
Efficacy: 93.6 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: General Diffuse

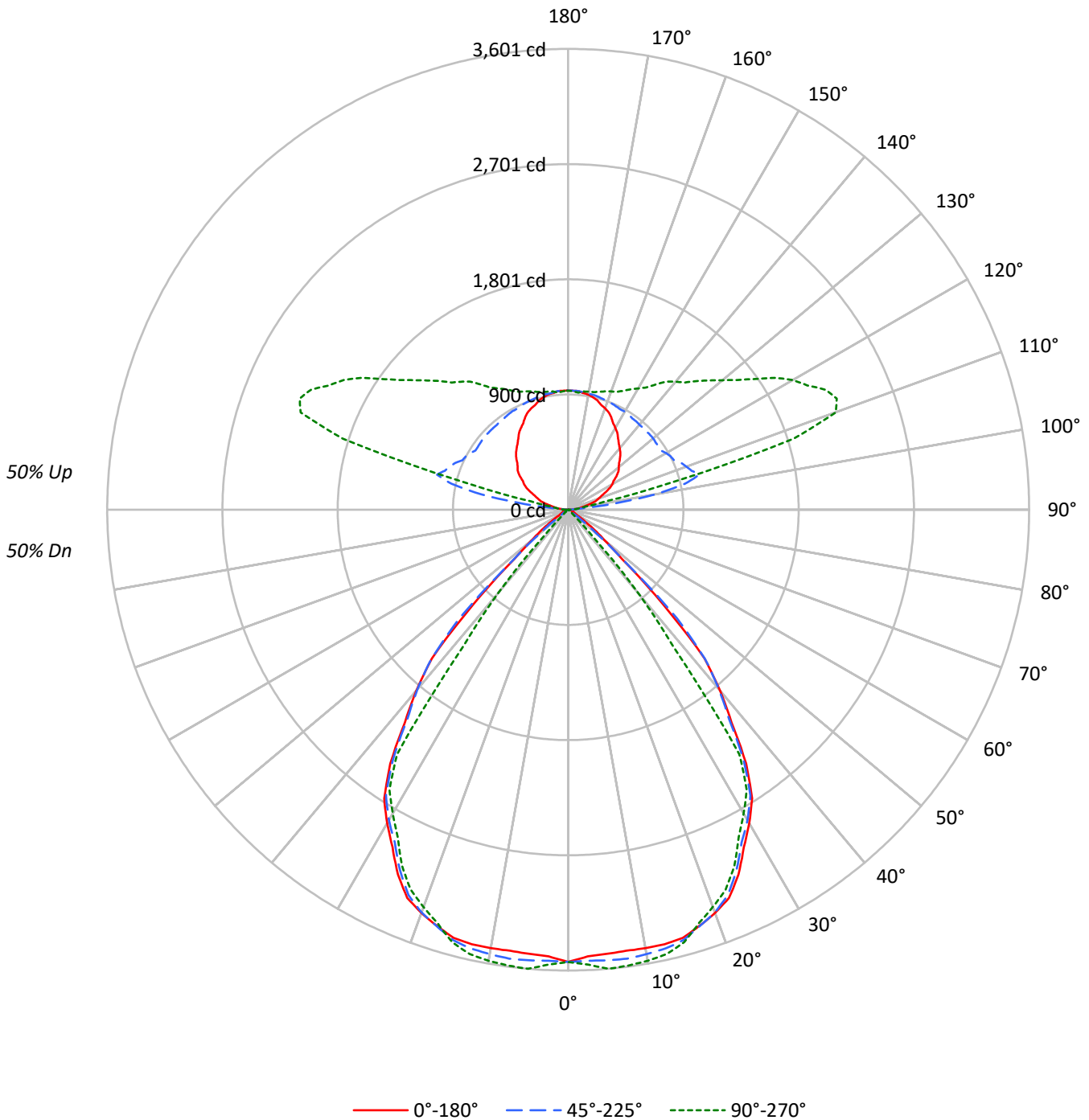
Input Watts (W): 105.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	100	96	93	90	92	89	86	84	76	74	72	64	62	61	52	52	51	46				
2	93	86	81	77	86	80	76	72	69	66	63	58	56	55	49	47	46	42				
3	86	78	72	67	79	73	68	63	63	59	56	54	51	49	45	44	42	38				
4	80	71	64	59	74	66	60	56	58	53	50	50	46	44	42	40	38	35				
5	74	64	57	52	69	60	54	50	53	48	45	46	42	40	39	37	35	32				
6	69	59	52	47	64	55	49	44	48	44	40	42	39	36	36	34	32	29				
7	65	54	47	42	60	51	44	40	45	40	36	39	36	33	34	31	29	27				
8	60	49	43	38	56	47	41	36	41	37	33	36	33	30	32	29	27	25				
9	57	46	39	34	53	43	37	33	38	34	30	34	30	28	30	27	25	23				
10	53	42	36	31	50	40	34	30	36	31	28	32	28	26	28	25	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25358	25358	25358
5°	25094	25454	25941
10°	25347	25694	26077
15°	25731	25861	25991
20°	25610	25572	25228
25°	24909	24612	24315
30°	23436	23208	22711
35°	21229	20922	20418
40°	17265	17148	8106
45°	10684	12182	558
50°	4076	3267	335
55°	2003	594	125
60°	969	287	36
65°	891	42	42
70°	839	52	52
75°	832	69	69
80°	826	103	0
85°	823	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12182 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.5	3.4
10°-20°	979.0	9.9
20°-30°	1423.4	14.4
30°-40°	1416.5	14.3
40°-50°	622.9	6.3
50°-60°	91.9	0.9
60°-70°	21.0	0.2
70°-80°	7.8	0.1
80°-90°	3.9	0.0
90°-100°	114.4	1.2
100°-110°	815.3	8.2
110°-120°	1106.9	11.2
120°-130°	900.9	9.1
130°-140°	724.6	7.3
140°-150°	571.2	5.8
150°-160°	417.7	4.2
160°-170°	259.4	2.6
170°-180°	88.5	0.9
0°-30°	2739.8	27.7
0°-40°	4156.3	42.0
0°-60°	4871.1	49.2
0°-90°	4903.8	49.5
90°-120°	2036.7	20.6
90°-150°	4233.4	42.7
90°-180°	4999.0	50.5
0°-180°	9902.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3534	3534	3534	3534	3534	
5°	3484	3545	3534	3542	3601	332
15°	3464	3537	3481	3447	3499	974
25°	3146	3205	3108	3027	3071	1438
35°	2423	2416	2388	2338	2331	1484
45°	1053	1197	1200	80	55	815
55°	160	172	48	17	10	162
65°	52	45	2	2	2	52
75°	30	6	2	2	2	32
85°	10	0	0	0	0	10
90°	0	6	12	18	18	2
95°	47	87	47	53	64	52
105°	181	279	1059	1353	896	191
115°	322	391	913	1898	2218	320
125°	462	525	860	1505	1779	411
135°	574	636	866	1239	1422	441
145°	679	736	872	1080	1194	426
155°	796	825	890	978	1024	365
165°	884	895	913	937	954	248
175°	931	936	931	925	919	88
180°	931	931	931	931	931	



TEST NUMBER: P622079

CATALOG NUMBER: VLT-WB-M-150U-125D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3533.7	3533.7	3533.7	3533.7	3533.7
2.5°	3493.6	3546.5	3527.7	3526.4	3557.7
5°	3483.6	3544.8	3533.7	3542.5	3601.2
7.5°	3476.6	3538.3	3538.2	3534.0	3592.7
10°	3478.6	3542.2	3526.2	3520.0	3578.7
12.5°	3478.6	3546.1	3512.1	3496.0	3556.7
15°	3463.6	3537.0	3481.1	3447.3	3498.6
17.5°	3409.6	3489.3	3412.6	3346.6	3389.6
20°	3353.6	3439.2	3348.6	3264.5	3303.6
22.5°	3283.6	3359.4	3260.6	3172.5	3213.5
25°	3146.0	3204.7	3108.5	3027.0	3071.0
27.5°	2972.5	3004.7	2933.0	2854.6	2882.9
30°	2828.4	2852.9	2800.9	2726.2	2740.9
32.5°	2674.4	2691.0	2648.9	2584.1	2596.8
35°	2423.3	2416.0	2388.3	2338.1	2330.8
37.5°	2095.2	2082.5	2064.7	1870.6	1341.4
40°	1843.1	1848.0	1830.6	1144.0	865.3
42.5°	1577.0	1607.3	1582.5	779.0	283.1
45°	1052.8	1197.1	1200.4	79.5	55.0
47.5°	569.2	726.2	590.7	49.3	40.0
50°	365.1	455.6	292.6	37.3	30.0
52.5°	261.1	304.6	114.5	29.3	22.0
55°	160.1	172.3	47.5	17.3	10.0
57.5°	95.5	113.6	30.0	6.4	2.5
60°	67.5	79.7	20.0	2.5	2.5
62.5°	59.5	60.0	14.0	2.5	2.5
65°	52.5	45.2	2.5	2.5	2.5
67.5°	46.0	32.8	2.5	2.5	2.5
70°	40.0	22.9	2.5	2.5	2.5
72.5°	36.0	15.0	2.5	2.5	2.5
75°	30.0	5.6	2.5	2.5	2.5
77.5°	24.0	3.0	2.5	2.0	2.0
80°	20.0	2.9	2.5	0.0	0.0
82.5°	16.0	2.8	0.5	0.0	0.0
85°	10.0	0.2	0.0	0.0	0.0
87.5°	4.0	1.2	2.3	3.5	3.5
90°	0.0	5.7	11.7	17.6	17.6
92.5°	14.0	19.8	25.8	36.4	41.0
95°	46.8	86.9	46.8	52.9	64.4
97.5°	83.1	166.7	344.2	101.5	87.8
100°	111.2	208.5	690.6	203.3	134.6
102.5°	139.3	241.2	934.1	536.5	293.8
105°	181.4	278.7	1059.4	1353.3	895.5
107.5°	223.6	296.8	1011.4	1969.6	1844.8
110°	251.7	320.4	983.3	2069.6	2224.1

TEST NUMBER: P622079

CATALOG NUMBER: VLT-WB-M-150U-125D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.8	348.4	955.2	2011.1	2270.9
115°	321.9	390.6	913.1	1897.8	2218.3
117.5°	365.2	432.8	902.5	1775.1	2104.7
120°	398.0	461.0	883.8	1681.7	2025.1
122.5°	421.4	488.9	860.4	1601.5	1917.4
125°	462.4	525.3	860.4	1504.6	1779.3
127.5°	496.3	560.4	861.6	1392.1	1663.4
130°	515.1	583.7	866.2	1316.9	1574.4
132.5°	538.5	607.1	866.2	1283.1	1494.8
135°	573.6	636.5	866.2	1239.1	1422.3
137.5°	602.9	670.4	866.2	1190.5	1347.3
140°	626.3	689.2	866.2	1162.1	1305.2
142.5°	649.7	708.0	870.9	1129.1	1263.1
145°	678.9	736.2	872.1	1079.5	1194.0
147.5°	714.1	764.4	879.1	1043.8	1132.0
150°	737.5	783.3	883.8	1020.1	1094.5
152.5°	760.9	802.1	883.8	1001.1	1061.7
155°	796.0	824.6	889.6	978.5	1024.3
157.5°	824.1	851.6	896.7	964.1	997.3
160°	842.8	865.7	901.4	954.7	983.3
162.5°	856.9	879.8	906.0	949.8	969.2
165°	883.8	895.2	913.1	936.9	954.0
167.5°	899.0	909.3	918.9	930.9	941.2
170°	913.1	918.8	918.9	930.7	936.5
172.5°	917.7	928.0	923.6	926.1	931.8
175°	930.6	936.3	930.6	924.6	918.9
177.5°	930.6	935.2	930.6	930.5	925.9
180°	930.6	930.6	930.6	930.6	930.6



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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	3.14	3.83	4.14	4.81	6.11	0.00	0.00	0.00	0.00	0.00
	3H	3.58	4.19	4.59	5.18	6.50	0.00	0.00	0.00	0.00	0.00
	4H	3.74	4.31	4.76	5.31	6.63	0.00	0.00	0.00	0.00	0.00
	6H	3.92	4.45	4.95	5.45	6.78	0.00	0.00	0.00	0.00	0.00
	8H	4.01	4.50	5.04	5.52	6.85	0.00	0.00	0.00	0.00	0.00
	12H	4.07	4.55	5.11	5.55	6.90	0.00	0.00	0.00	0.00	0.00
4H	2H	2.84	3.41	3.87	4.41	5.73	0.00	0.00	0.00	0.00	0.00
	3H	3.31	3.79	4.35	4.81	6.15	0.00	0.00	0.00	0.00	0.00
	4H	3.49	3.92	4.53	4.94	6.30	0.00	0.00	0.00	0.00	0.00
	6H	3.72	4.09	4.77	5.13	6.48	0.00	0.00	0.00	0.00	0.00
	8H	3.84	4.18	4.89	5.21	6.58	0.00	0.00	0.00	0.00	0.00
	12H	3.94	4.25	5.01	5.30	6.67	0.00	0.00	0.00	0.00	0.00
8H	4H	3.32	3.66	4.36	4.69	6.06	0.00	0.00	0.00	0.00	0.00
	6H	3.55	3.83	4.62	4.91	6.27	0.00	0.00	0.00	0.00	0.00
	8H	3.69	3.93	4.76	4.99	6.38	0.00	0.00	0.00	0.00	0.00
	12H	3.82	4.04	4.90	5.09	6.52	0.00	0.00	0.00	0.00	0.00
12H	4H	3.24	3.55	4.31	4.60	5.97	0.00	0.00	0.00	0.00	0.00
	6H	3.49	3.74	4.57	4.80	6.18	0.00	0.00	0.00	0.00	0.00
	8H	3.62	3.83	4.70	4.89	6.32	0.00	0.00	0.00	0.00	0.00