

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: P622027

Luminaire Tested: VLT-WB-M-075U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622027
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-075U-100D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6365.1 lumens
Efficiency: N/A
Efficacy: 102.5 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

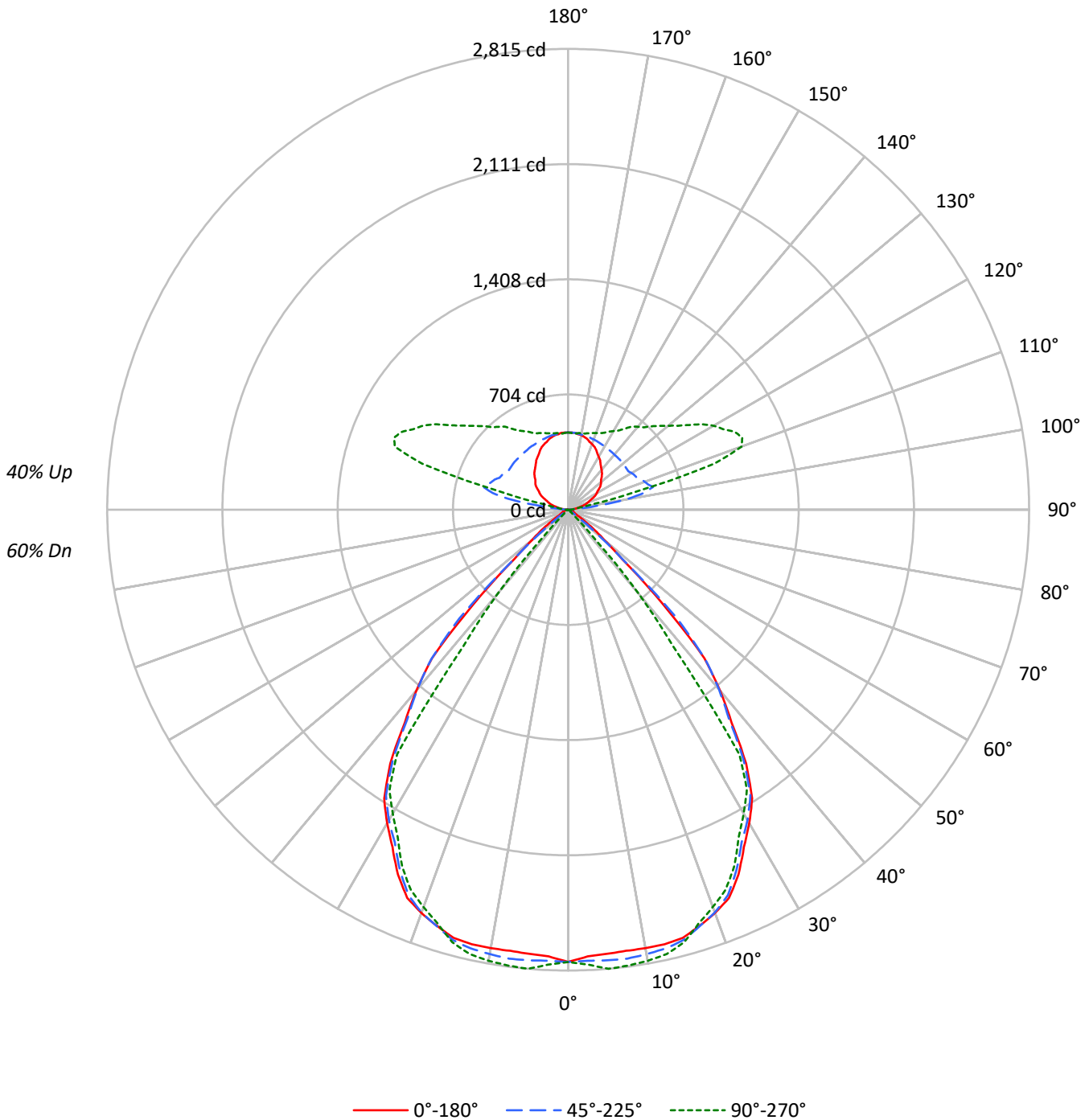
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	102	102	102	102	89	89	89		77	77	77		66	66	66	60
1	102	99	96	93	96	93	90	88	82	80	78		71	70	69		62	61	60	56
2	96	90	85	81	89	84	80	77	75	72	69		66	64	62		58	56	55	51
3	89	81	75	71	83	77	72	67	69	65	61		61	58	56		54	52	50	46
4	83	74	67	62	78	70	64	60	63	58	55		56	53	50		50	47	46	43
5	77	68	61	56	73	64	58	54	58	53	50		52	48	46		46	44	42	39
6	72	62	55	50	68	59	53	48	53	48	45		48	44	41		43	40	38	36
7	68	57	50	45	64	54	48	44	49	44	41		45	41	38		40	37	35	33
8	63	53	46	41	60	50	44	40	46	41	37		42	38	35		38	35	32	30
9	59	49	42	37	56	47	40	36	43	38	34		39	35	32		35	32	30	28
10	56	45	39	34	53	43	37	33	40	35	31		36	32	30		33	30	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19823	19823	19823
5°	19617	19899	20279
10°	19815	20086	20385
15°	20116	20217	20319
20°	20020	19990	19721
25°	19473	19240	19008
30°	18321	18143	17755
35°	16595	16355	15961
40°	13497	13406	6336
45°	8352	9523	436
50°	3186	2553	262
55°	1565	464	98
60°	758	224	29
65°	698	34	34
70°	657	42	42
75°	652	55	55
80°	645	83	0
85°	642	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9523 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	4.1
10°-20°	765.3	12.0
20°-30°	1112.7	17.5
30°-40°	1107.3	17.4
40°-50°	486.9	7.7
50°-60°	71.9	1.1
60°-70°	16.4	0.3
70°-80°	6.1	0.1
80°-90°	2.5	0.0
90°-100°	57.9	0.9
100°-110°	413.0	6.5
110°-120°	560.7	8.8
120°-130°	456.3	7.2
130°-140°	367.0	5.8
140°-150°	289.3	4.5
150°-160°	211.6	3.3
160°-170°	131.4	2.1
170°-180°	44.8	0.7
0°-30°	2141.8	33.6
0°-40°	3249.1	51.0
0°-60°	3808.0	59.8
0°-90°	3833.0	60.2
90°-120°	1031.6	16.2
90°-150°	2144.3	33.7
90°-180°	2532.0	39.8
0°-180°	6365.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2762	2762	2762	2762	2762	
5°	2723	2771	2762	2769	2815	260
15°	2708	2765	2721	2695	2735	761
25°	2459	2505	2430	2366	2401	1124
35°	1894	1889	1867	1828	1822	1160
45°	823	936	938	62	43	637
55°	125	135	37	14	8	126
65°	41	35	2	2	2	41
75°	24	4	2	2	2	25
85°	8	0	0	0	0	8
90°	0	3	6	9	9	1
95°	24	44	24	27	33	27
105°	92	141	537	686	454	97
115°	163	198	462	961	1124	162
125°	234	266	436	762	901	208
135°	290	322	439	628	720	224
145°	344	373	442	547	605	216
155°	403	418	451	496	519	185
165°	448	454	462	474	483	126
175°	471	474	471	468	465	45
180°	471	471	471	471	471	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2762.4	2762.4	2762.4	2762.4	2762.4
2.5°	2731.1	2772.4	2757.7	2756.7	2781.2
5°	2723.3	2771.1	2762.4	2769.3	2815.2
7.5°	2717.8	2766.0	2765.9	2762.7	2808.5
10°	2719.4	2769.1	2756.5	2751.7	2797.6
12.5°	2719.4	2772.1	2745.6	2733.0	2780.4
15°	2707.7	2765.0	2721.3	2694.9	2735.0
17.5°	2665.4	2727.7	2667.8	2616.1	2649.8
20°	2621.6	2688.5	2617.7	2552.0	2582.5
22.5°	2566.9	2626.2	2548.9	2480.0	2512.2
25°	2459.4	2505.3	2430.0	2366.3	2400.7
27.5°	2323.7	2348.9	2292.8	2231.5	2253.7
30°	2211.1	2230.2	2189.6	2131.2	2142.7
32.5°	2090.7	2103.7	2070.7	2020.1	2030.1
35°	1894.4	1888.6	1867.0	1827.8	1822.0
37.5°	1637.9	1627.9	1614.0	1462.3	1048.7
40°	1440.8	1444.6	1431.1	894.3	676.4
42.5°	1232.8	1256.5	1237.1	609.0	221.3
45°	823.0	935.8	938.4	62.1	43.0
47.5°	445.0	567.7	461.8	38.5	31.3
50°	285.4	356.2	228.7	29.2	23.5
52.5°	204.1	238.1	89.5	22.9	17.2
55°	125.1	134.7	37.1	13.6	7.8
57.5°	74.7	88.8	23.5	5.0	2.0
60°	52.8	62.3	15.6	2.0	2.0
62.5°	46.5	46.9	10.9	2.0	2.0
65°	41.1	35.3	2.0	2.0	2.0
67.5°	36.0	25.6	2.0	2.0	2.0
70°	31.3	17.9	2.0	2.0	2.0
72.5°	28.2	11.7	2.0	2.0	2.0
75°	23.5	4.3	2.0	2.0	2.0
77.5°	18.8	2.3	2.0	1.6	1.6
80°	15.6	2.3	2.0	0.0	0.0
82.5°	12.5	2.2	0.4	0.0	0.0
85°	7.8	0.2	0.0	0.0	0.0
87.5°	3.1	0.6	1.2	1.8	1.8
90°	0.0	2.9	5.9	8.9	8.9
92.5°	7.1	10.0	13.0	18.4	20.8
95°	23.7	44.0	23.7	26.8	32.6
97.5°	42.1	84.4	174.3	51.4	44.5
100°	56.3	105.6	349.8	103.0	68.2
102.5°	70.6	122.2	473.2	271.7	148.8
105°	91.9	141.2	536.6	685.5	453.6
107.5°	113.2	150.4	512.3	997.6	934.5
110°	127.5	162.3	498.1	1048.3	1126.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	176.5	483.8	1018.7	1150.3
115°	163.1	197.8	462.5	961.3	1123.6
117.5°	185.0	219.2	457.1	899.1	1066.1
120°	201.6	233.5	447.7	851.8	1025.8
122.5°	213.5	247.7	435.8	811.2	971.2
125°	234.2	266.1	435.8	762.1	901.2
127.5°	251.4	283.9	436.4	705.1	842.5
130°	260.9	295.7	438.8	667.0	797.5
132.5°	272.7	307.5	438.8	649.9	757.2
135°	290.5	322.4	438.8	627.6	720.4
137.5°	305.4	339.6	438.8	603.0	682.5
140°	317.2	349.1	438.8	588.6	661.1
142.5°	329.1	358.6	441.1	571.9	639.8
145°	343.9	372.9	441.7	546.8	604.8
147.5°	361.7	387.2	445.3	528.7	573.4
150°	373.5	396.7	447.7	516.7	554.4
152.5°	385.4	406.3	447.7	507.1	537.8
155°	403.2	417.7	450.6	495.6	518.8
157.5°	417.4	431.3	454.2	488.4	505.2
160°	426.9	438.5	456.6	483.6	498.1
162.5°	434.0	445.6	458.9	481.1	490.9
165°	447.7	453.5	462.5	474.5	483.2
167.5°	455.4	460.6	465.4	471.5	476.7
170°	462.5	465.4	465.4	471.4	474.3
172.5°	464.9	470.1	467.8	469.1	472.0
175°	471.4	474.3	471.4	468.3	465.4
177.5°	471.4	473.7	471.4	471.3	469.0
180°	471.4	471.4	471.4	471.4	471.4



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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	3.29	4.03	4.20	4.92	6.06	0.00	0.00	0.00	0.00	0.00
	3H	3.73	4.39	4.65	5.29	6.45	0.00	0.00	0.00	0.00	0.00
	4H	3.89	4.51	4.83	5.42	6.59	0.00	0.00	0.00	0.00	0.00
	6H	4.08	4.64	5.02	5.56	6.74	0.00	0.00	0.00	0.00	0.00
	8H	4.16	4.69	5.11	5.62	6.80	0.00	0.00	0.00	0.00	0.00
	12H	4.23	4.73	5.18	5.66	6.86	0.00	0.00	0.00	0.00	0.00
4H	2H	2.99	3.61	3.93	4.51	5.69	0.00	0.00	0.00	0.00	0.00
	3H	3.47	3.97	4.41	4.91	6.10	0.00	0.00	0.00	0.00	0.00
	4H	3.64	4.10	4.59	5.04	6.25	0.00	0.00	0.00	0.00	0.00
	6H	3.87	4.26	4.84	5.22	6.44	0.00	0.00	0.00	0.00	0.00
	8H	3.99	4.36	4.96	5.31	6.53	0.00	0.00	0.00	0.00	0.00
	12H	4.10	4.42	5.08	5.40	6.62	0.00	0.00	0.00	0.00	0.00
8H	4H	3.47	3.84	4.44	4.79	6.01	0.00	0.00	0.00	0.00	0.00
	6H	3.70	4.00	4.69	5.00	6.22	0.00	0.00	0.00	0.00	0.00
	8H	3.84	4.10	4.84	5.09	6.32	0.00	0.00	0.00	0.00	0.00
	12H	3.98	4.20	4.97	5.18	6.47	0.00	0.00	0.00	0.00	0.00
12H	4H	3.40	3.73	4.38	4.70	5.92	0.00	0.00	0.00	0.00	0.00
	6H	3.64	3.90	4.64	4.89	6.13	0.00	0.00	0.00	0.00	0.00
	8H	3.77	4.00	4.77	4.98	6.27	0.00	0.00	0.00	0.00	0.00