

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P622075

Luminaire Tested: VLT-WB-M-150U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622075  
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-100D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

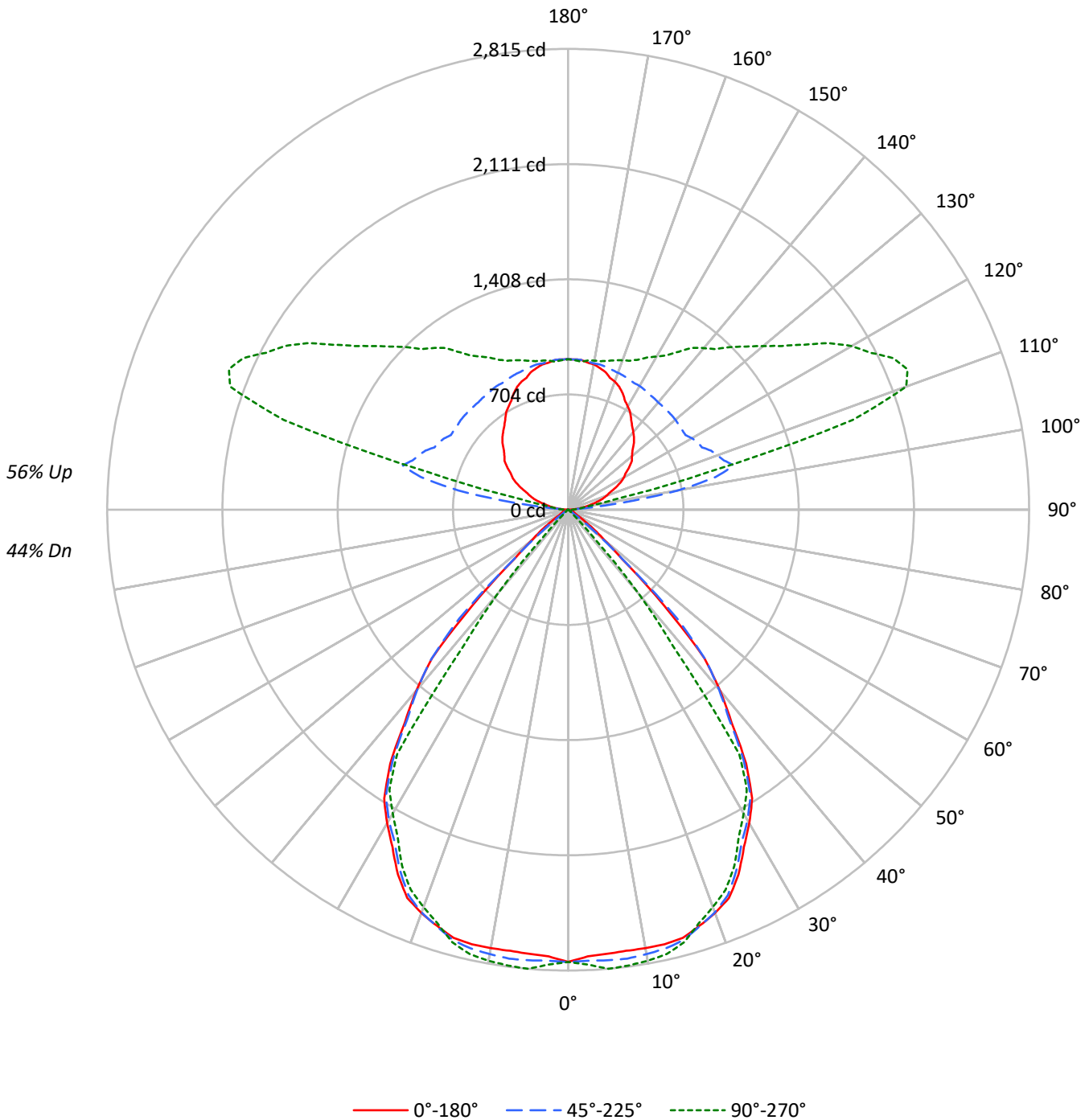
Lumens per Lamp: N/A  
Luminaire Lumens: 8769.4 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 94.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	106	106	106	106	97	97	97	97	80	80	80		64	64	64		50	50	50	44
1	98	95	91	88	90	87	84	82	73	71	69		59	58	57		47	47	46	40
2	91	85	80	75	83	78	74	70	66	63	60		54	52	51		44	43	42	37
3	84	76	70	65	77	71	65	61	60	56	53		50	47	45		41	39	38	34
4	78	69	62	57	72	64	58	54	55	50	47		46	43	41		38	36	34	31
5	73	63	56	50	67	58	52	48	50	45	42		42	39	37		35	33	31	28
6	67	57	50	45	62	53	47	42	46	41	38		39	36	33		33	30	29	26
7	63	52	45	40	58	49	43	38	42	38	34		36	33	30		30	28	26	24
8	59	48	41	36	54	45	39	34	39	34	31		34	30	28		28	26	24	22
9	55	44	37	33	51	41	35	31	36	32	28		31	28	25		27	24	22	20
10	52	41	34	30	48	38	32	29	34	29	26		29	26	23		25	23	21	19

**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	3.0
10°-20°	765.3	8.7
20°-30°	1112.7	12.7
30°-40°	1107.3	12.6
40°-50°	486.9	5.6
50°-60°	71.9	0.8
60°-70°	16.4	0.2
70°-80°	6.1	0.1
80°-90°	3.5	0.0
90°-100°	113.0	1.3
100°-110°	805.0	9.2
110°-120°	1092.8	12.5
120°-130°	889.4	10.1
130°-140°	715.4	8.2
140°-150°	564.0	6.4
150°-160°	412.4	4.7
160°-170°	256.1	2.9
170°-180°	87.3	1.0
0°-30°	2141.8	24.4
0°-40°	3249.1	37.1
0°-60°	3808.0	43.4
0°-90°	3834.0	43.7
90°-120°	2010.7	22.9
90°-150°	4179.5	47.7
90°-180°	4935.0	56.3
0°-180°	8769.4	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	6	12	17	17	2
95°	46	86	46	52	64	52
105°	179	275	1046	1336	884	189
115°	318	386	901	1874	2190	315
125°	456	519	849	1486	1757	406
135°	566	628	855	1223	1404	436
145°	670	727	861	1066	1179	421
155°	786	814	878	966	1011	361
165°	872	884	901	925	942	245
175°	919	924	919	913	907	87
180°	919	919	919	919	919	



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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	1.2	2.3	3.5	3.5
90°	0.0	5.7	11.6	17.3	17.3
92.5°	13.9	19.5	25.4	35.9	40.4
95°	46.2	85.8	46.2	52.3	63.6
97.5°	82.1	164.5	339.8	100.2	86.7
100°	109.8	205.8	681.9	200.7	132.9
102.5°	137.5	238.1	922.2	529.6	290.1
105°	179.1	275.2	1045.9	1336.1	884.1
107.5°	220.7	293.1	998.5	1944.5	1821.4
110°	248.5	316.3	970.8	2043.3	2195.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.2	344.0	943.0	1985.5	2242.0
115°	317.8	385.6	901.4	1873.6	2190.0
117.5°	360.6	427.2	891.0	1752.5	2077.9
120°	392.9	455.1	872.5	1660.3	1999.3
122.5°	416.0	482.7	849.4	1581.1	1893.0
125°	456.5	518.6	849.4	1485.5	1756.7
127.5°	490.0	553.3	850.6	1374.4	1642.2
130°	508.5	576.3	855.2	1300.2	1554.4
132.5°	531.6	599.4	855.2	1266.8	1475.8
135°	566.3	628.4	855.2	1223.4	1404.2
137.5°	595.2	661.9	855.2	1175.4	1330.2
140°	618.3	680.4	855.2	1147.3	1288.6
142.5°	641.4	699.0	859.8	1114.8	1247.0
145°	670.3	726.8	861.0	1065.8	1178.8
147.5°	705.0	754.7	867.9	1030.5	1117.6
150°	728.1	773.3	872.5	1007.1	1080.6
152.5°	751.2	791.9	872.5	988.3	1048.2
155°	785.9	814.1	878.3	966.0	1011.2
157.5°	813.6	840.7	885.3	951.9	984.7
160°	832.1	854.7	889.9	942.5	970.8
162.5°	846.0	868.6	894.5	937.7	956.9
165°	872.5	883.8	901.4	924.9	941.9
167.5°	887.6	897.7	907.2	919.0	929.2
170°	901.4	907.1	907.2	918.9	924.6
172.5°	906.1	916.2	911.8	914.3	919.9
175°	918.8	924.4	918.8	912.9	907.2
177.5°	918.8	923.3	918.8	918.7	914.2
180°	918.8	918.8	918.8	918.8	918.8



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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	1.69	2.35	2.74	3.38	4.75	0.00	0.00	0.00	0.00	0.00
	3H	2.13	2.72	3.18	3.75	5.14	0.00	0.00	0.00	0.00	0.00
	4H	2.29	2.84	3.35	3.88	5.28	0.00	0.00	0.00	0.00	0.00
	6H	2.47	2.98	3.54	4.02	5.43	0.00	0.00	0.00	0.00	0.00
	8H	2.55	3.03	3.63	4.09	5.49	0.00	0.00	0.00	0.00	0.00
	12H	2.62	3.07	3.69	4.12	5.55	0.00	0.00	0.00	0.00	0.00
4H	2H	1.38	1.94	2.46	2.98	4.38	0.00	0.00	0.00	0.00	0.00
	3H	1.86	2.32	2.93	3.38	4.79	0.00	0.00	0.00	0.00	0.00
	4H	2.03	2.45	3.11	3.51	4.94	0.00	0.00	0.00	0.00	0.00
	6H	2.26	2.62	3.35	3.70	5.13	0.00	0.00	0.00	0.00	0.00
	8H	2.38	2.72	3.47	3.79	5.23	0.00	0.00	0.00	0.00	0.00
	12H	2.49	2.79	3.59	3.87	5.32	0.00	0.00	0.00	0.00	0.00
8H	4H	1.86	2.19	2.95	3.27	4.71	0.00	0.00	0.00	0.00	0.00
	6H	2.09	2.37	3.20	3.48	4.92	0.00	0.00	0.00	0.00	0.00
	8H	2.23	2.47	3.35	3.57	5.03	0.00	0.00	0.00	0.00	0.00
	12H	2.37	2.57	3.48	3.67	5.16	0.00	0.00	0.00	0.00	0.00
12H	4H	1.79	2.09	2.89	3.17	4.62	0.00	0.00	0.00	0.00	0.00
	6H	2.04	2.27	3.15	3.37	4.83	0.00	0.00	0.00	0.00	0.00
	8H	2.16	2.37	3.28	3.46	4.96	0.00	0.00	0.00	0.00	0.00