

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: P622001

Luminaire Tested: VLT-WB-M-025U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622001  
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-025U-075D-935-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

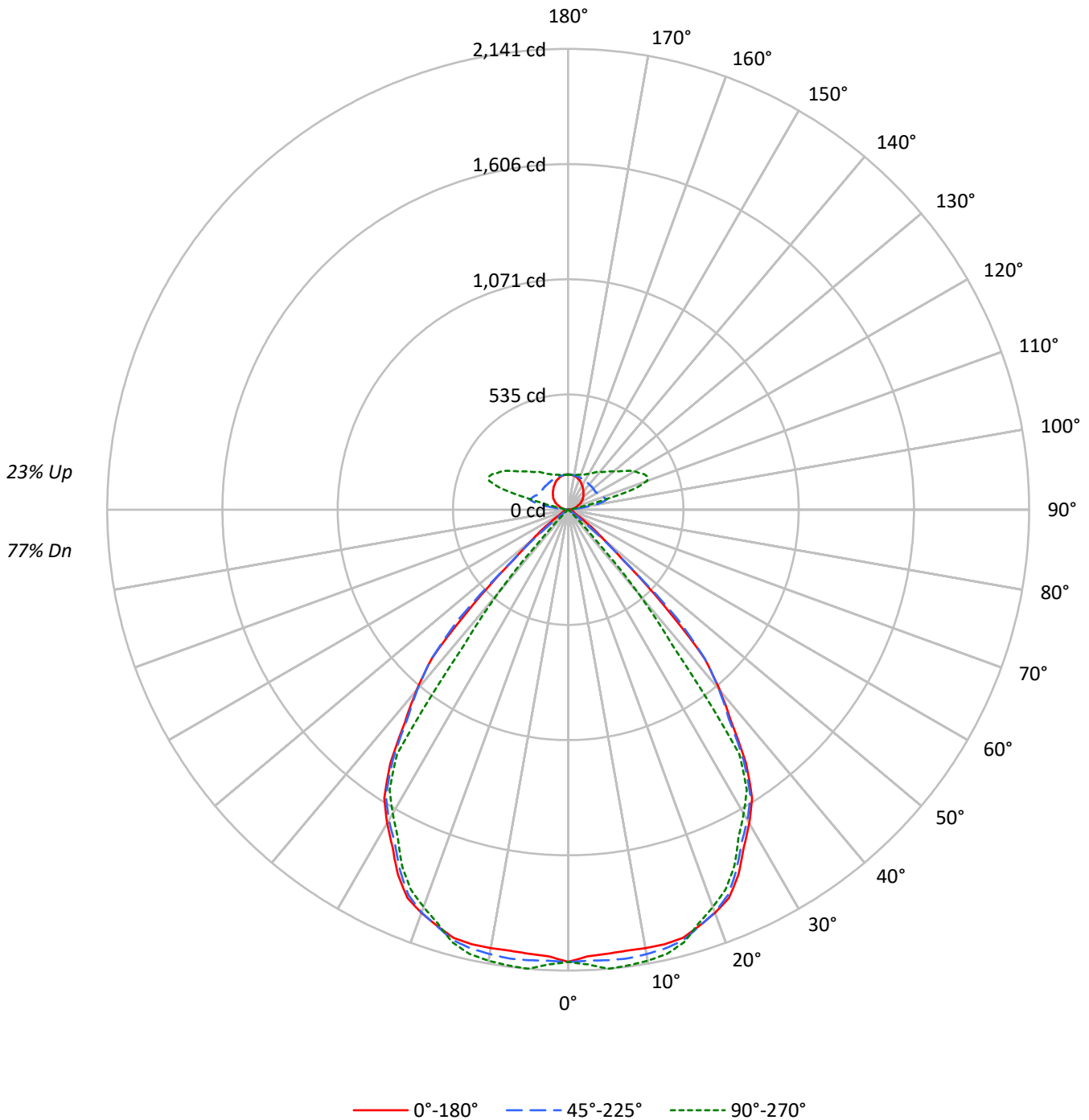
Lumens per Lamp: N/A  
Luminaire Lumens: 3793.4 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 37.1  
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	114	114	114	114	108	108	108	108	98	98	98		89	89	89		81	81	81	77
1	107	104	101	98	102	99	97	94	91	89	87		83	82	81		76	75	74	71
2	100	94	90	86	96	91	87	83	84	81	78		77	75	73		71	69	68	65
3	94	86	81	76	90	83	78	74	77	73	70		72	68	66		66	64	62	59
4	88	79	73	68	84	76	71	66	71	67	63		66	63	60		62	59	57	54
5	82	73	66	61	79	70	64	60	66	61	57		62	58	54		58	55	52	50
6	77	67	60	55	74	65	59	54	61	56	52		57	53	50		54	50	48	46
7	72	62	55	50	69	60	54	49	57	51	47		53	49	46		50	47	44	42
8	68	57	51	46	65	56	49	45	53	47	44		50	45	42		47	43	40	39
9	64	53	47	42	62	52	46	41	49	44	40		46	42	39		44	40	37	36
10	60	50	43	39	58	48	42	38	46	41	37		44	39	36		41	38	35	33

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15074	15074	15074
5°	14917	15131	15420
10°	15068	15274	15501
15°	15296	15374	15451
20°	15223	15201	14997
25°	14808	14631	14455
30°	13932	13796	13500
35°	12619	12437	12137
40°	10263	10194	4819
45°	6352	7242	332
50°	2423	1941	199
55°	1190	353	74
60°	576	171	22
65°	530	25	25
70°	499	31	31
75°	494	42	42
80°	492	62	0
85°	486	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 7242 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.6	5.3
10°-20°	581.9	15.3
20°-30°	846.1	22.3
30°-40°	842.0	22.2
40°-50°	370.3	9.8
50°-60°	54.6	1.4
60°-70°	12.5	0.3
70°-80°	4.7	0.1
80°-90°	1.4	0.0
90°-100°	20.1	0.5
100°-110°	143.4	3.8
110°-120°	194.7	5.1
120°-130°	158.4	4.2
130°-140°	127.4	3.4
140°-150°	100.5	2.6
150°-160°	73.5	1.9
160°-170°	45.6	1.2
170°-180°	15.6	0.4
0°-30°	1628.7	42.9
0°-40°	2470.7	65.1
0°-60°	2895.6	76.3
0°-90°	2914.2	76.8
90°-120°	358.2	9.4
90°-150°	744.5	19.6
90°-180°	879.0	23.2
0°-180°	3793.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2101	2101	2101	2101	2101	
5°	2071	2107	2101	2106	2141	198
15°	2059	2103	2069	2049	2080	579
25°	1870	1905	1848	1799	1826	855
35°	1440	1436	1420	1390	1386	882
45°	626	712	714	47	33	485
55°	95	102	28	10	6	96
65°	31	27	2	2	2	31
75°	18	3	2	2	2	19
85°	6	0	0	0	0	6
90°	0	1	2	3	3	1
95°	8	15	8	9	11	9
105°	32	49	186	238	158	34
115°	57	69	161	334	390	56
125°	81	92	151	265	313	72
135°	101	112	152	218	250	78
145°	119	130	153	190	210	75
155°	140	145	156	172	180	64
165°	155	157	161	165	168	44
175°	164	165	164	163	162	15
180°	164	164	164	164	164	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2100.6	2100.6	2100.6	2100.6	2100.6
2.5°	2076.8	2108.2	2097.0	2096.2	2114.9
5°	2070.8	2107.2	2100.6	2105.8	2140.7
7.5°	2066.7	2103.3	2103.3	2100.8	2135.7
10°	2067.9	2105.7	2096.1	2092.5	2127.3
12.5°	2067.9	2108.0	2087.8	2078.2	2114.3
15°	2059.0	2102.6	2069.4	2049.2	2079.8
17.5°	2026.8	2074.2	2028.6	1989.4	2015.0
20°	1993.5	2044.4	1990.6	1940.6	1963.8
22.5°	1951.9	1997.0	1938.2	1885.9	1910.3
25°	1870.2	1905.0	1847.9	1799.4	1825.6
27.5°	1767.0	1786.2	1743.5	1696.9	1713.8
30°	1681.4	1695.9	1665.0	1620.6	1629.3
32.5°	1589.8	1599.7	1574.6	1536.1	1543.7
35°	1440.5	1436.2	1419.7	1389.9	1385.5
37.5°	1245.5	1237.9	1227.3	1112.0	797.4
40°	1095.6	1098.5	1088.2	680.1	514.4
42.5°	937.5	955.5	940.7	463.1	168.3
45°	625.9	711.6	713.6	47.2	32.7
47.5°	338.4	431.7	351.1	29.3	23.8
50°	217.0	270.8	173.9	22.2	17.8
52.5°	155.2	181.1	68.1	17.4	13.1
55°	95.1	102.4	28.2	10.3	5.9
57.5°	56.8	67.5	17.8	3.8	1.5
60°	40.1	47.4	11.9	1.5	1.5
62.5°	35.4	35.7	8.3	1.5	1.5
65°	31.2	26.9	1.5	1.5	1.5
67.5°	27.4	19.5	1.5	1.5	1.5
70°	23.8	13.6	1.5	1.5	1.5
72.5°	21.4	8.9	1.5	1.5	1.5
75°	17.8	3.3	1.5	1.5	1.5
77.5°	14.3	1.8	1.5	1.2	1.2
80°	11.9	1.7	1.5	0.0	0.0
82.5°	9.5	1.7	0.3	0.0	0.0
85°	5.9	0.1	0.0	0.0	0.0
87.5°	2.4	0.3	0.4	0.6	0.6
90°	0.0	1.0	2.1	3.1	3.1
92.5°	2.5	3.5	4.5	6.4	7.2
95°	8.2	15.3	8.2	9.3	11.3
97.5°	14.6	29.3	60.5	17.9	15.4
100°	19.6	36.7	121.5	35.8	23.7
102.5°	24.5	42.4	164.3	94.3	51.7
105°	31.9	49.0	186.3	238.0	157.5
107.5°	39.3	52.2	177.9	346.4	324.4
110°	44.3	56.3	172.9	364.0	391.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	49.2	61.3	168.0	353.7	399.4
115°	56.6	68.7	160.6	333.8	390.1
117.5°	64.2	76.1	158.7	312.2	370.1
120°	70.0	81.1	155.4	295.8	356.1
122.5°	74.1	86.0	151.3	281.7	337.2
125°	81.3	92.4	151.3	264.6	312.9
127.5°	87.3	98.6	151.5	244.8	292.5
130°	90.6	102.7	152.3	231.6	276.9
132.5°	94.7	106.8	152.3	225.7	262.9
135°	100.9	111.9	152.3	217.9	250.1
137.5°	106.0	117.9	152.3	209.4	237.0
140°	110.1	121.2	152.3	204.4	229.5
142.5°	114.3	124.5	153.2	198.6	222.1
145°	119.4	129.5	153.4	189.9	210.0
147.5°	125.6	134.4	154.6	183.6	199.1
150°	129.7	137.7	155.4	179.4	192.5
152.5°	133.8	141.1	155.4	176.1	186.7
155°	140.0	145.0	156.5	172.1	180.1
157.5°	144.9	149.8	157.7	169.6	175.4
160°	148.2	152.3	158.5	167.9	172.9
162.5°	150.7	154.7	159.3	167.0	170.5
165°	155.4	157.4	160.6	164.8	167.8
167.5°	158.1	159.9	161.6	163.7	165.5
170°	160.6	161.6	161.6	163.7	164.7
172.5°	161.4	163.2	162.4	162.9	163.9
175°	163.7	164.7	163.7	162.6	161.6
177.5°	163.7	164.5	163.7	163.6	162.8
180°	163.7	163.7	163.7	163.7	163.7



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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	3.76	4.60	4.48	5.31	6.15	0.00	0.00	0.00	0.00	0.00
	3H	4.20	4.94	4.94	5.67	6.55	0.00	0.00	0.00	0.00	0.00
	4H	4.37	5.06	5.13	5.79	6.69	0.00	0.00	0.00	0.00	0.00
	6H	4.55	5.19	5.32	5.93	6.83	0.00	0.00	0.00	0.00	0.00
	8H	4.64	5.24	5.42	6.00	6.90	0.00	0.00	0.00	0.00	0.00
	12H	4.71	5.28	5.49	6.03	6.96	0.00	0.00	0.00	0.00	0.00
4H	2H	3.47	4.16	4.23	4.89	5.79	0.00	0.00	0.00	0.00	0.00
	3H	3.95	4.51	4.72	5.29	6.19	0.00	0.00	0.00	0.00	0.00
	4H	4.12	4.63	4.90	5.40	6.34	0.00	0.00	0.00	0.00	0.00
	6H	4.35	4.79	5.16	5.59	6.53	0.00	0.00	0.00	0.00	0.00
	8H	4.47	4.88	5.28	5.67	6.62	0.00	0.00	0.00	0.00	0.00
	12H	4.58	4.94	5.40	5.75	6.71	0.00	0.00	0.00	0.00	0.00
8H	4H	3.95	4.36	4.76	5.15	6.10	0.00	0.00	0.00	0.00	0.00
	6H	4.18	4.51	5.01	5.35	6.30	0.00	0.00	0.00	0.00	0.00
	8H	4.31	4.60	5.16	5.44	6.41	0.00	0.00	0.00	0.00	0.00
	12H	4.45	4.70	5.29	5.53	6.56	0.00	0.00	0.00	0.00	0.00
12H	4H	3.88	4.24	4.70	5.06	6.01	0.00	0.00	0.00	0.00	0.00
	6H	4.12	4.41	4.96	5.25	6.22	0.00	0.00	0.00	0.00	0.00
	8H	4.25	4.50	5.09	5.33	6.36	0.00	0.00	0.00	0.00	0.00