

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: P622024

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

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P622024  
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-075D-930-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
WHITE BAFFLE WITH MEDIUM OPTIC  
DOWNLIGHT 750 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: 5410.0 lumens  
Efficiency: N/A  
Efficacy: 104.6 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

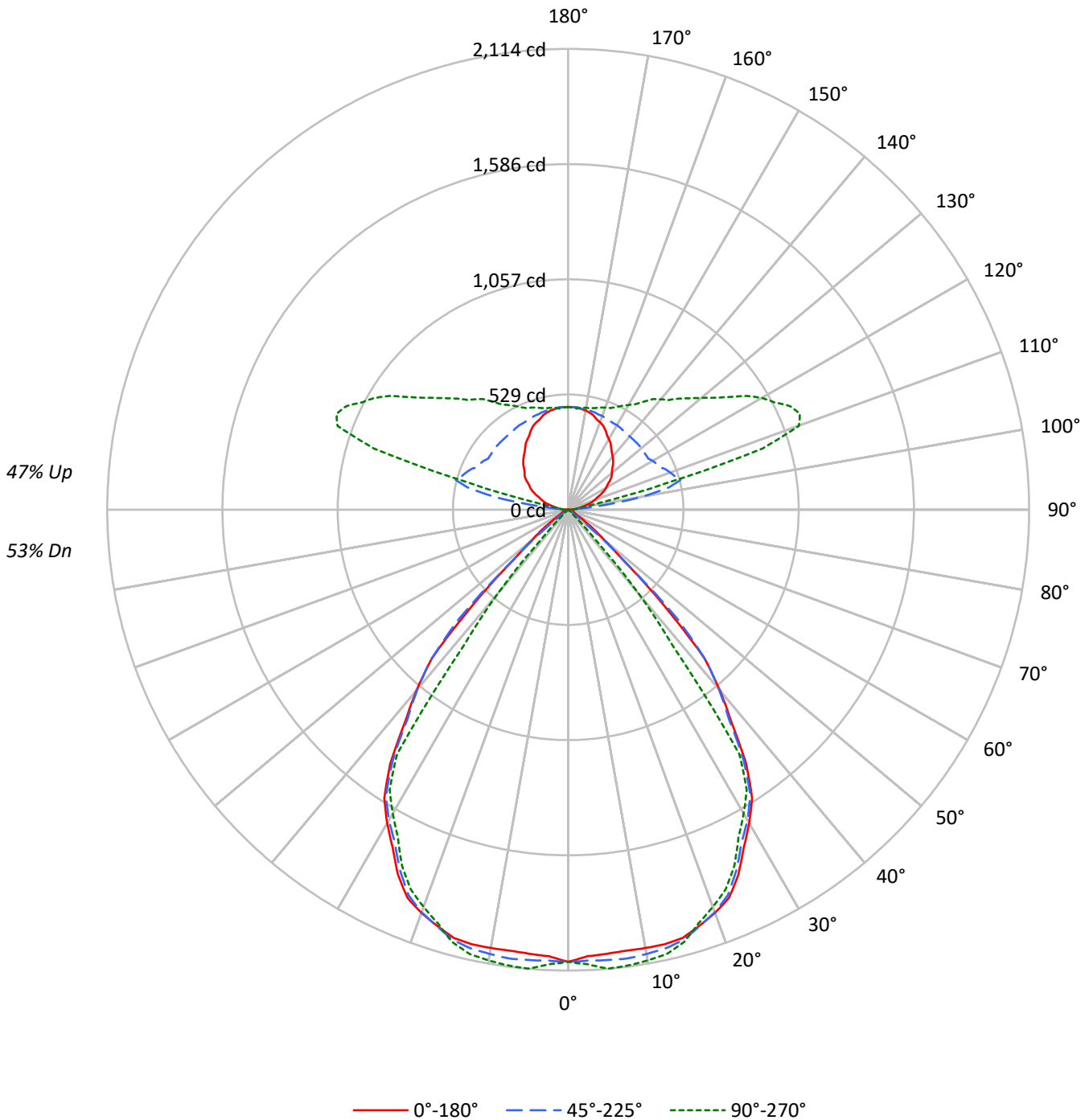
Input Watts (W): 51.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	108	108	108	108	100	100	100	100	85	85	85		72	72	72		59	59	59	53
1	101	97	94	91	93	90	88	85	78	76	74		66	65	64		55	55	54	49
2	94	88	83	78	87	82	78	74	71	68	65		61	59	57		52	50	49	45
3	87	79	73	68	81	74	69	65	65	61	58		56	53	51		48	46	45	41
4	81	72	65	60	75	68	62	57	59	55	52		52	49	46		45	43	41	38
5	75	65	59	53	70	62	56	51	55	50	46		48	44	42		42	39	37	34
6	70	60	53	48	66	56	50	46	50	45	42		44	41	38		39	36	34	32
7	66	55	48	43	61	52	46	41	46	41	38		41	37	35		36	33	31	29
8	61	50	44	39	57	48	42	37	43	38	35		38	34	32		34	31	29	27
9	58	47	40	35	54	44	38	34	40	35	32		36	32	29		32	29	27	25
10	54	43	37	32	51	41	35	31	37	32	29		33	30	27		30	27	25	23

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

	0°	45°	90°
0°	14882	14882	14882
5°	14727	14939	15224
10°	14876	15079	15304
15°	15102	15178	15254
20°	15030	15007	14806
25°	14619	14444	14270
30°	13755	13621	13329
35°	12459	12278	11983
40°	10133	10064	4757
45°	6271	7149	328
50°	2392	1917	196
55°	1175	349	74
60°	568	168	22
65°	523	25	25
70°	493	31	31
75°	488	42	42
80°	483	62	0
85°	486	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 7149 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.0	3.7
10°-20°	574.5	10.6
20°-30°	835.4	15.4
30°-40°	831.3	15.4
40°-50°	365.6	6.8
50°-60°	54.0	1.0
60°-70°	12.3	0.2
70°-80°	4.6	0.1
80°-90°	2.1	0.0
90°-100°	57.9	1.1
100°-110°	413.0	7.6
110°-120°	560.7	10.4
120°-130°	456.3	8.4
130°-140°	367.0	6.8
140°-150°	289.3	5.3
150°-160°	211.6	3.9
160°-170°	131.4	2.4
170°-180°	44.8	0.8
0°-30°	1608.0	29.7
0°-40°	2439.3	45.1
0°-60°	2858.8	52.8
0°-90°	2877.9	53.2
90°-120°	1031.6	19.1
90°-150°	2144.3	39.6
90°-180°	2532.0	46.8
0°-180°	5410.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2044	2080	2074	2079	2114	195
15°	2033	2076	2043	2023	2053	572
25°	1846	1881	1824	1776	1802	844
35°	1422	1418	1402	1372	1368	871
45°	618	703	704	47	32	478
55°	94	101	28	10	6	95
65°	31	26	2	2	2	31
75°	18	3	2	2	2	19
85°	6	0	0	0	0	6
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°	2073.9	2073.9	2073.9	2073.9	2073.9
2.5°	2050.4	2081.4	2070.3	2069.6	2087.9
5°	2044.5	2080.4	2073.9	2079.0	2113.5
7.5°	2040.4	2076.6	2076.5	2074.0	2108.5
10°	2041.6	2078.9	2069.4	2065.8	2100.3
12.5°	2041.6	2081.2	2061.2	2051.8	2087.4
15°	2032.8	2075.8	2043.0	2023.2	2053.3
17.5°	2001.1	2047.8	2002.8	1964.1	1989.3
20°	1968.2	2018.4	1965.2	1915.9	1938.8
22.5°	1927.1	1971.6	1913.6	1861.9	1886.0
25°	1846.4	1880.8	1824.3	1776.5	1802.3
27.5°	1744.5	1763.4	1721.3	1675.3	1692.0
30°	1660.0	1674.3	1643.8	1600.0	1608.6
32.5°	1569.6	1579.3	1554.6	1516.6	1524.1
35°	1422.2	1417.9	1401.6	1372.2	1367.9
37.5°	1229.6	1222.2	1211.7	1097.8	787.3
40°	1081.7	1084.6	1074.4	671.4	507.8
42.5°	925.5	943.3	928.8	457.2	166.1
45°	617.9	702.6	704.5	46.6	32.3
47.5°	334.0	426.2	346.7	28.9	23.5
50°	214.3	267.4	171.7	21.9	17.6
52.5°	153.2	178.8	67.2	17.2	12.9
55°	93.9	101.1	27.9	10.2	5.9
57.5°	56.1	66.7	17.6	3.8	1.5
60°	39.6	46.8	11.7	1.5	1.5
62.5°	34.9	35.2	8.2	1.5	1.5
65°	30.8	26.5	1.5	1.5	1.5
67.5°	27.0	19.3	1.5	1.5	1.5
70°	23.5	13.4	1.5	1.5	1.5
72.5°	21.1	8.8	1.5	1.5	1.5
75°	17.6	3.3	1.5	1.5	1.5
77.5°	14.1	1.7	1.5	1.2	1.2
80°	11.7	1.7	1.5	0.0	0.0
82.5°	9.4	1.6	0.3	0.0	0.0
85°	5.9	0.1	0.0	0.0	0.0
87.5°	2.3	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	1.65	2.35	2.62	3.31	4.55	0.00	0.00	0.00	0.00	0.00
	3H	2.09	2.71	3.07	3.67	4.94	0.00	0.00	0.00	0.00	0.00
	4H	2.25	2.83	3.24	3.80	5.07	0.00	0.00	0.00	0.00	0.00
	6H	2.43	2.97	3.43	3.94	5.22	0.00	0.00	0.00	0.00	0.00
	8H	2.51	3.02	3.52	4.01	5.29	0.00	0.00	0.00	0.00	0.00
	12H	2.58	3.06	3.59	4.04	5.34	0.00	0.00	0.00	0.00	0.00
4H	2H	1.35	1.93	2.34	2.90	4.17	0.00	0.00	0.00	0.00	0.00
	3H	1.82	2.30	2.82	3.30	4.59	0.00	0.00	0.00	0.00	0.00
	4H	1.99	2.43	3.00	3.43	4.73	0.00	0.00	0.00	0.00	0.00
	6H	2.22	2.60	3.25	3.61	4.92	0.00	0.00	0.00	0.00	0.00
	8H	2.34	2.69	3.36	3.70	5.02	0.00	0.00	0.00	0.00	0.00
	12H	2.45	2.76	3.49	3.79	5.11	0.00	0.00	0.00	0.00	0.00
8H	4H	1.82	2.17	2.84	3.18	4.50	0.00	0.00	0.00	0.00	0.00
	6H	2.05	2.34	3.10	3.39	4.71	0.00	0.00	0.00	0.00	0.00
	8H	2.19	2.44	3.24	3.48	4.81	0.00	0.00	0.00	0.00	0.00
	12H	2.33	2.55	3.38	3.57	4.96	0.00	0.00	0.00	0.00	0.00
12H	4H	1.75	2.06	2.79	3.09	4.41	0.00	0.00	0.00	0.00	0.00
	6H	2.00	2.25	3.05	3.28	4.62	0.00	0.00	0.00	0.00	0.00
	8H	2.12	2.34	3.18	3.37	4.75	0.00	0.00	0.00	0.00	0.00