

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: P622015

Luminaire Tested: VLT-WB-M-050U-100D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622015
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-050U-100D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

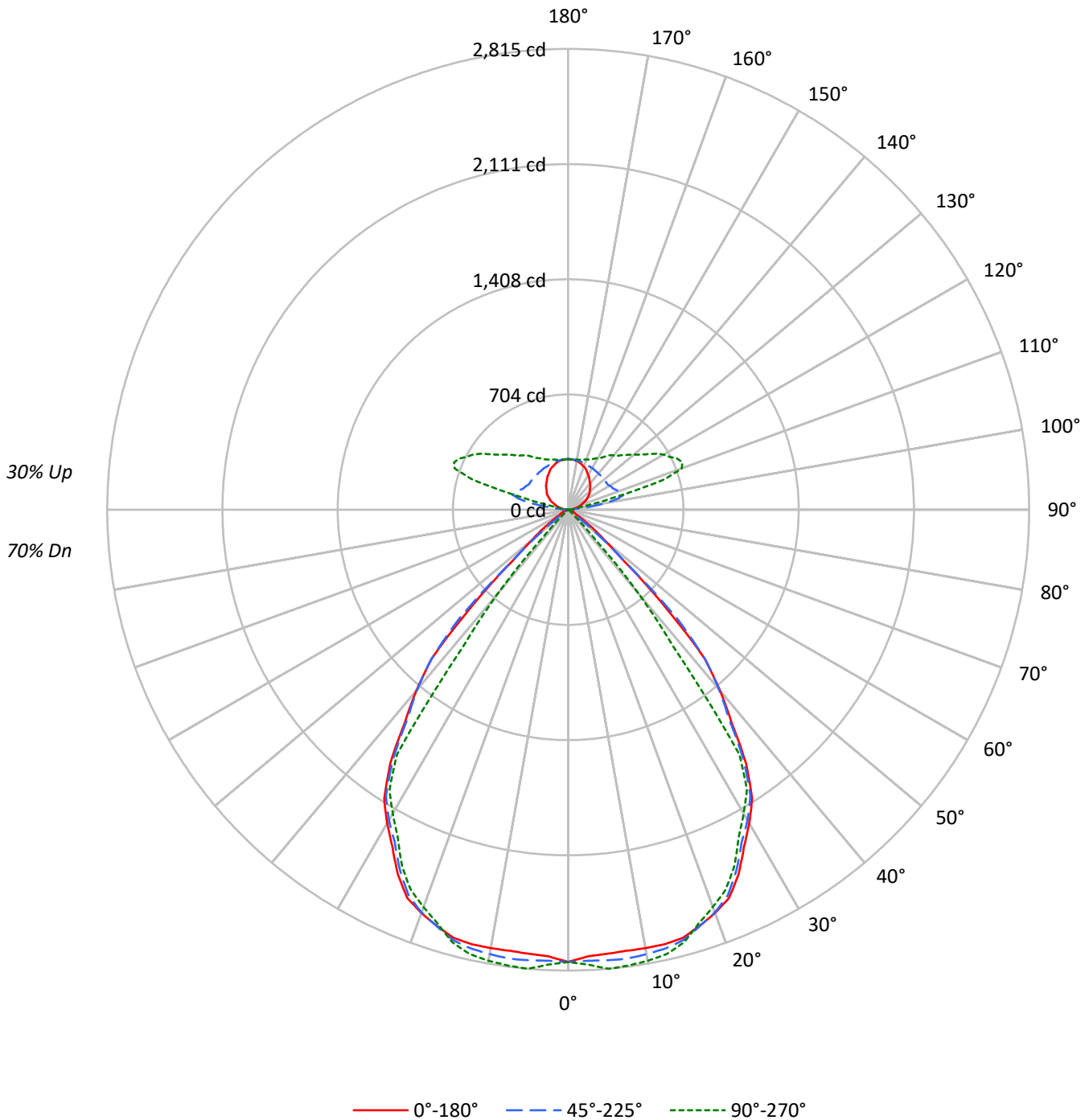
Lumens per Lamp: N/A
Luminaire Lumens: 5492.1 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 54.5
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	105	102	99	96	99	97	94	92	87	85	83	78	77	76	70	69	68	64
2	98	92	88	84	93	88	84	80	80	77	74	72	70	68	65	64	62	59
3	92	84	78	74	87	80	75	71	73	70	66	67	64	61	61	59	57	54
4	86	77	70	66	81	74	68	64	68	63	60	62	59	56	57	54	52	49
5	80	70	64	59	76	68	62	57	62	58	54	58	54	51	53	50	48	45
6	75	65	58	53	71	62	56	52	58	53	49	53	49	46	49	46	44	41
7	70	60	53	48	67	58	51	47	53	48	45	50	45	42	46	43	40	38
8	66	55	48	44	63	53	47	43	50	45	41	46	42	39	43	40	37	35
9	62	51	45	40	59	50	43	39	46	41	38	43	39	36	40	37	34	32
10	59	48	41	37	56	46	40	36	43	38	35	40	36	33	38	34	32	30

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	4.8
10°-20°	765.3	13.9
20°-30°	1112.7	20.3
30°-40°	1107.3	20.2
40°-50°	486.9	8.9
50°-60°	71.9	1.3
60°-70°	16.4	0.3
70°-80°	6.1	0.1
80°-90°	2.1	0.0
90°-100°	38.0	0.7
100°-110°	270.7	4.9
110°-120°	367.5	6.7
120°-130°	299.1	5.4
130°-140°	240.5	4.4
140°-150°	189.6	3.5
150°-160°	138.7	2.5
160°-170°	86.1	1.6
170°-180°	29.4	0.5
0°-30°	2141.8	39.0
0°-40°	3249.1	59.2
0°-60°	3808.0	69.3
0°-90°	3832.6	69.8
90°-120°	676.1	12.3
90°-150°	1405.3	25.6
90°-180°	1659.0	30.2
0°-180°	5492.1	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	2	4	6	6	1
95°	16	29	16	18	21	17
105°	60	92	352	449	297	63
115°	107	130	303	630	736	106
125°	154	174	286	500	591	136
135°	190	211	288	411	472	146
145°	225	244	290	358	396	142
155°	264	274	295	325	340	121
165°	293	297	303	311	317	82
175°	309	311	309	307	305	29
180°	309	309	309	309	309	



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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	0.4	0.8	1.2	1.2
90°	0.0	1.9	3.9	5.8	5.8
92.5°	4.7	6.6	8.5	12.1	13.6
95°	15.5	28.8	15.5	17.6	21.4
97.5°	27.6	55.3	114.2	33.7	29.1
100°	36.9	69.2	229.3	67.5	44.7
102.5°	46.2	80.1	310.1	178.1	97.5
105°	60.2	92.5	351.7	449.3	297.3
107.5°	74.2	98.5	335.7	653.8	612.4
110°	83.5	106.3	326.4	687.0	738.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.9	115.7	317.1	667.6	753.9
115°	106.9	129.7	303.1	630.0	736.4
117.5°	121.2	143.7	299.6	589.3	698.7
120°	132.1	153.0	293.4	558.3	672.3
122.5°	139.9	162.3	285.6	531.6	636.5
125°	153.5	174.4	285.6	499.5	590.7
127.5°	164.8	186.0	286.0	462.1	552.2
130°	171.0	193.8	287.6	437.2	522.7
132.5°	178.8	201.5	287.6	425.9	496.2
135°	190.4	211.3	287.6	411.3	472.1
137.5°	200.1	222.5	287.6	395.2	447.3
140°	207.9	228.8	287.6	385.8	433.3
142.5°	215.7	235.0	289.1	374.8	419.3
145°	225.4	244.4	289.5	358.4	396.4
147.5°	237.0	253.8	291.8	346.5	375.8
150°	244.8	260.0	293.4	338.6	363.3
152.5°	252.6	266.3	293.4	332.3	352.5
155°	264.2	273.7	295.3	324.8	340.0
157.5°	273.6	282.7	297.7	320.1	331.1
160°	279.8	287.4	299.2	316.9	326.4
162.5°	284.4	292.0	300.8	315.3	321.8
165°	293.4	297.2	303.1	311.0	316.7
167.5°	298.4	301.9	305.0	309.0	312.4
170°	303.1	305.0	305.0	309.0	310.9
172.5°	304.7	308.1	306.6	307.4	309.3
175°	308.9	310.8	308.9	306.9	305.0
177.5°	308.9	310.4	308.9	308.9	307.4
180°	308.9	308.9	308.9	308.9	308.9



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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	4.12	4.91	4.93	5.71	6.69	0.00	0.00	0.00	0.00	0.00
	3H	4.56	5.27	5.39	6.07	7.08	0.00	0.00	0.00	0.00	0.00
	4H	4.73	5.38	5.57	6.20	7.22	0.00	0.00	0.00	0.00	0.00
	6H	4.91	5.51	5.76	6.34	7.37	0.00	0.00	0.00	0.00	0.00
	8H	5.00	5.56	5.86	6.41	7.43	0.00	0.00	0.00	0.00	0.00
	12H	5.06	5.60	5.92	6.44	7.49	0.00	0.00	0.00	0.00	0.00
4H	2H	3.83	4.48	4.67	5.30	6.32	0.00	0.00	0.00	0.00	0.00
	3H	4.31	4.84	5.16	5.69	6.72	0.00	0.00	0.00	0.00	0.00
	4H	4.48	4.97	5.34	5.81	6.87	0.00	0.00	0.00	0.00	0.00
	6H	4.71	5.13	5.59	6.00	7.07	0.00	0.00	0.00	0.00	0.00
	8H	4.83	5.22	5.71	6.08	7.16	0.00	0.00	0.00	0.00	0.00
	12H	4.94	5.28	5.83	6.17	7.25	0.00	0.00	0.00	0.00	0.00
8H	4H	4.31	4.70	5.19	5.56	6.63	0.00	0.00	0.00	0.00	0.00
	6H	4.54	4.85	5.45	5.77	6.84	0.00	0.00	0.00	0.00	0.00
	8H	4.67	4.95	5.59	5.86	6.95	0.00	0.00	0.00	0.00	0.00
	12H	4.81	5.05	5.73	5.95	7.10	0.00	0.00	0.00	0.00	0.00
12H	4H	4.24	4.58	5.13	5.47	6.55	0.00	0.00	0.00	0.00	0.00
	6H	4.48	4.76	5.40	5.66	6.75	0.00	0.00	0.00	0.00	0.00
	8H	4.61	4.85	5.52	5.75	6.89	0.00	0.00	0.00	0.00	0.00