

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: P622029

Luminaire Tested: VLT-WB-M-075U-100D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622029
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-940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6629.1 lumens
Efficiency: N/A
Efficacy: 106.7 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

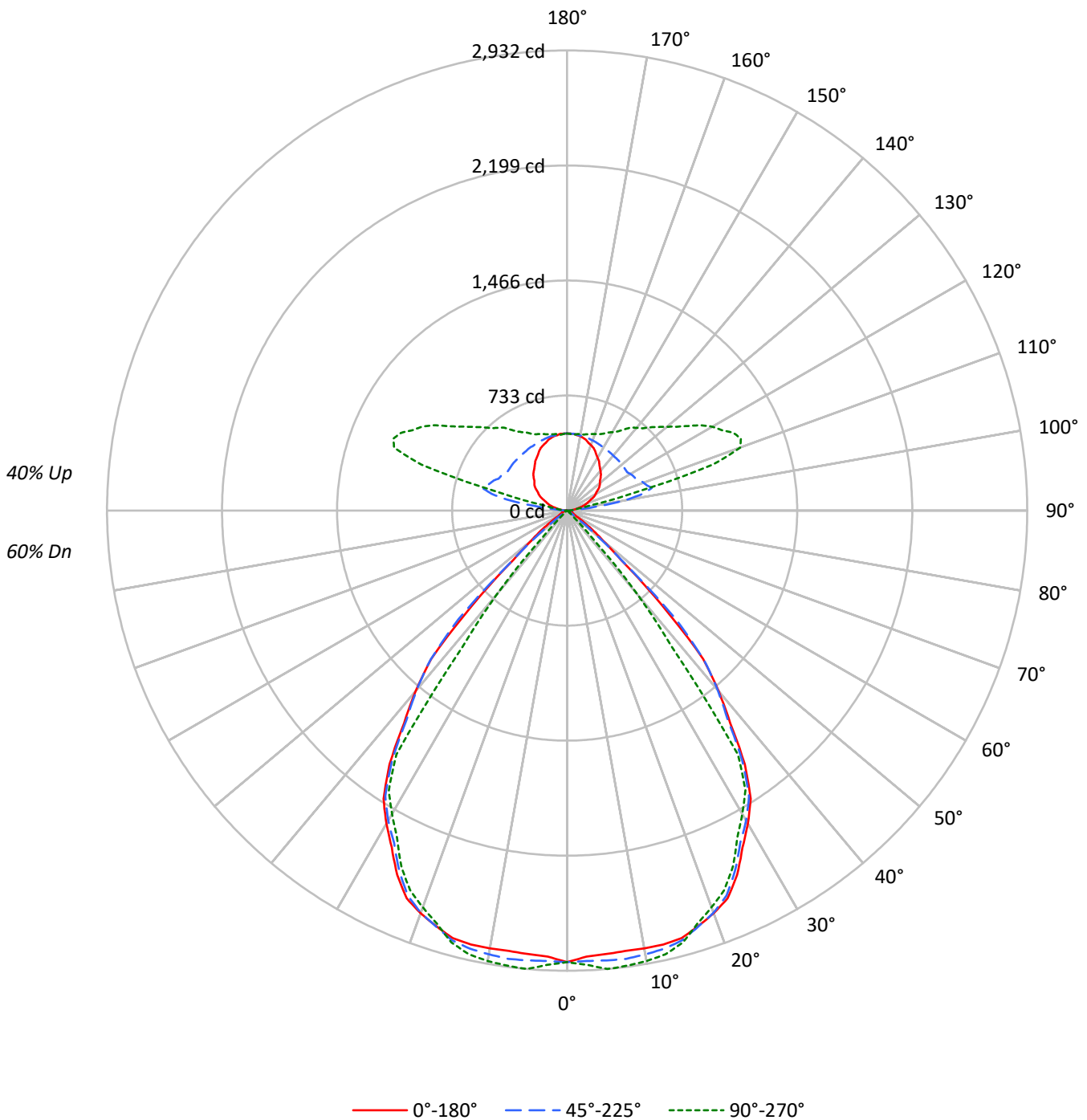
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66
1	102	99	96	93	96	93	90	88	82	80	78	71	70	69	62	61	60
2	96	90	85	81	89	84	80	77	75	72	69	66	64	62	58	56	55
3	89	81	75	71	83	77	72	67	69	65	61	61	58	56	54	52	50
4	83	74	67	62	78	70	64	60	63	58	55	56	53	50	50	47	46
5	77	68	61	56	73	64	58	54	58	53	50	52	48	46	46	44	42
6	72	62	55	50	68	59	53	48	53	48	45	48	44	41	43	40	38
7	68	57	50	45	64	54	48	44	49	44	41	45	41	38	40	37	35
8	63	53	46	41	60	50	44	40	46	41	37	42	38	35	38	35	32
9	59	49	42	37	56	47	40	36	43	38	34	39	35	32	35	32	30
10	56	45	39	34	53	43	37	33	40	35	31	36	32	30	33	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20645	20645	20645
5°	20431	20724	21120
10°	20637	20919	21231
15°	20950	21056	21162
20°	20851	20819	20540
25°	20281	20039	19797
30°	19081	18896	18491
35°	17284	17034	16623
40°	14057	13961	6599
45°	8699	9918	455
50°	3319	2659	272
55°	1630	484	101
60°	789	234	29
65°	727	34	34
70°	684	42	42
75°	677	55	55
80°	674	83	0
85°	667	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9918 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	4.1
10°-20°	797.0	12.0
20°-30°	1158.9	17.5
30°-40°	1153.3	17.4
40°-50°	507.1	7.7
50°-60°	74.9	1.1
60°-70°	17.1	0.3
70°-80°	6.3	0.1
80°-90°	2.6	0.0
90°-100°	60.4	0.9
100°-110°	430.1	6.5
110°-120°	583.9	8.8
120°-130°	475.3	7.2
130°-140°	382.3	5.8
140°-150°	301.4	4.5
150°-160°	220.3	3.3
160°-170°	136.9	2.1
170°-180°	46.7	0.7
0°-30°	2230.7	33.7
0°-40°	3383.9	51.0
0°-60°	3965.9	59.8
0°-90°	3991.9	60.2
90°-120°	1074.4	16.2
90°-150°	2233.3	33.7
90°-180°	2637.0	39.8
0°-180°	6629.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2877	2877	2877	2877	2877	
5°	2836	2886	2877	2884	2932	271
15°	2820	2880	2834	2807	2848	793
25°	2561	2609	2531	2464	2500	1171
35°	1973	1967	1944	1904	1898	1208
45°	857	975	977	65	45	664
55°	130	140	39	14	8	132
65°	43	37	2	2	2	43
75°	24	4	2	2	2	26
85°	8	0	0	0	0	8
90°	0	3	6	9	9	1
95°	25	46	25	28	34	28
105°	96	147	559	714	472	101
115°	170	206	482	1001	1170	169
125°	244	277	454	794	939	217
135°	303	336	457	654	750	233
145°	358	388	460	570	630	225
155°	420	435	469	516	540	193
165°	466	472	482	494	503	131
175°	491	494	491	488	485	46
180°	491	491	491	491	491	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2877.0	2877.0	2877.0	2877.0	2877.0
2.5°	2844.4	2887.4	2872.1	2871.1	2896.6
5°	2836.3	2886.1	2877.0	2884.2	2932.0
7.5°	2830.6	2880.8	2880.7	2877.3	2925.1
10°	2832.2	2884.0	2870.9	2865.9	2913.7
12.5°	2832.2	2887.2	2859.5	2846.4	2895.7
15°	2820.0	2879.7	2834.3	2806.7	2848.5
17.5°	2776.0	2840.9	2778.5	2724.7	2759.7
20°	2730.4	2800.1	2726.3	2657.8	2689.7
22.5°	2673.4	2735.1	2654.7	2582.9	2616.4
25°	2561.4	2609.2	2530.9	2464.5	2500.3
27.5°	2420.1	2446.4	2387.9	2324.1	2347.2
30°	2302.8	2322.7	2280.4	2219.6	2231.6
32.5°	2177.4	2190.9	2156.6	2103.9	2114.3
35°	1973.0	1967.0	1944.5	1903.6	1897.6
37.5°	1705.8	1695.5	1681.0	1523.0	1092.2
40°	1500.6	1504.6	1490.4	931.4	704.5
42.5°	1284.0	1308.7	1288.4	634.2	230.5
45°	857.2	974.7	977.3	64.7	44.8
47.5°	463.4	591.2	480.9	40.1	32.6
50°	297.3	370.9	238.2	30.4	24.4
52.5°	212.6	248.0	93.3	23.9	17.9
55°	130.3	140.3	38.7	14.1	8.1
57.5°	77.8	92.5	24.4	5.2	2.0
60°	55.0	64.9	16.3	2.0	2.0
62.5°	48.5	48.9	11.4	2.0	2.0
65°	42.8	36.8	2.0	2.0	2.0
67.5°	37.5	26.7	2.0	2.0	2.0
70°	32.6	18.6	2.0	2.0	2.0
72.5°	29.3	12.2	2.0	2.0	2.0
75°	24.4	4.5	2.0	2.0	2.0
77.5°	19.5	2.4	2.0	1.6	1.6
80°	16.3	2.4	2.0	0.0	0.0
82.5°	13.0	2.3	0.4	0.0	0.0
85°	8.1	0.2	0.0	0.0	0.0
87.5°	3.3	0.7	1.2	1.9	1.9
90°	0.0	3.0	6.2	9.3	9.3
92.5°	7.4	10.4	13.6	19.2	21.6
95°	24.7	45.8	24.7	27.9	34.0
97.5°	43.8	87.9	181.6	53.6	46.3
100°	58.7	110.0	364.3	107.2	71.0
102.5°	73.5	127.2	492.8	283.0	155.0
105°	95.7	147.0	558.9	713.9	472.4
107.5°	117.9	156.6	533.5	1039.0	973.2
110°	132.8	169.0	518.7	1091.8	1173.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.6	183.8	503.9	1060.9	1198.0
115°	169.8	206.0	481.7	1001.2	1170.2
117.5°	192.7	228.3	476.1	936.4	1110.3
120°	210.0	243.2	466.2	887.2	1068.3
122.5°	222.3	257.9	453.9	844.9	1011.5
125°	243.9	277.1	453.9	793.7	938.6
127.5°	261.8	295.6	454.5	734.4	877.5
130°	271.7	307.9	457.0	694.7	830.6
132.5°	284.1	320.3	457.0	676.9	788.6
135°	302.6	335.8	457.0	653.7	750.3
137.5°	318.0	353.7	457.0	628.1	710.8
140°	330.4	363.6	457.0	613.1	688.5
142.5°	342.7	373.5	459.4	595.7	666.3
145°	358.2	388.4	460.1	569.5	629.9
147.5°	376.7	403.3	463.8	550.7	597.2
150°	389.0	413.2	466.2	538.1	577.4
152.5°	401.4	423.1	466.2	528.1	560.1
155°	419.9	435.0	469.3	516.2	540.3
157.5°	434.7	449.2	473.0	508.6	526.1
160°	444.6	456.7	475.5	503.6	518.7
162.5°	452.0	464.1	478.0	501.0	511.3
165°	466.2	472.3	481.7	494.2	503.3
167.5°	474.3	479.7	484.8	491.1	496.5
170°	481.7	484.7	484.8	491.0	494.0
172.5°	484.1	489.6	487.2	488.5	491.6
175°	490.9	494.0	490.9	487.8	484.8
177.5°	490.9	493.4	490.9	490.9	488.5
180°	490.9	490.9	490.9	490.9	490.9



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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	3.43	4.17	4.34	5.07	6.20	0.00	0.00	0.00	0.00	0.00
	3H	3.87	4.53	4.79	5.43	6.59	0.00	0.00	0.00	0.00	0.00
	4H	4.03	4.65	4.97	5.56	6.73	0.00	0.00	0.00	0.00	0.00
	6H	4.22	4.78	5.16	5.70	6.88	0.00	0.00	0.00	0.00	0.00
	8H	4.30	4.83	5.25	5.77	6.94	0.00	0.00	0.00	0.00	0.00
	12H	4.37	4.87	5.32	5.80	7.00	0.00	0.00	0.00	0.00	0.00
4H	2H	3.13	3.75	4.07	4.66	5.83	0.00	0.00	0.00	0.00	0.00
	3H	3.61	4.11	4.55	5.06	6.24	0.00	0.00	0.00	0.00	0.00
	4H	3.78	4.24	4.74	5.18	6.39	0.00	0.00	0.00	0.00	0.00
	6H	4.02	4.41	4.98	5.37	6.58	0.00	0.00	0.00	0.00	0.00
	8H	4.13	4.50	5.10	5.45	6.67	0.00	0.00	0.00	0.00	0.00
	12H	4.24	4.57	5.22	5.54	6.76	0.00	0.00	0.00	0.00	0.00
8H	4H	3.61	3.98	4.58	4.93	6.15	0.00	0.00	0.00	0.00	0.00
	6H	3.84	4.14	4.83	5.14	6.36	0.00	0.00	0.00	0.00	0.00
	8H	3.98	4.24	4.98	5.23	6.46	0.00	0.00	0.00	0.00	0.00
	12H	4.12	4.34	5.11	5.32	6.61	0.00	0.00	0.00	0.00	0.00
12H	4H	3.54	3.87	4.52	4.84	6.06	0.00	0.00	0.00	0.00	0.00
	6H	3.78	4.04	4.78	5.03	6.27	0.00	0.00	0.00	0.00	0.00
	8H	3.92	4.14	4.91	5.12	6.41	0.00	0.00	0.00	0.00	0.00