

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: P621997

Luminaire Tested: VLT-WB-M-025U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621997
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-050D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2803.4 lumens
Efficiency: N/A
Efficacy: 102.3 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

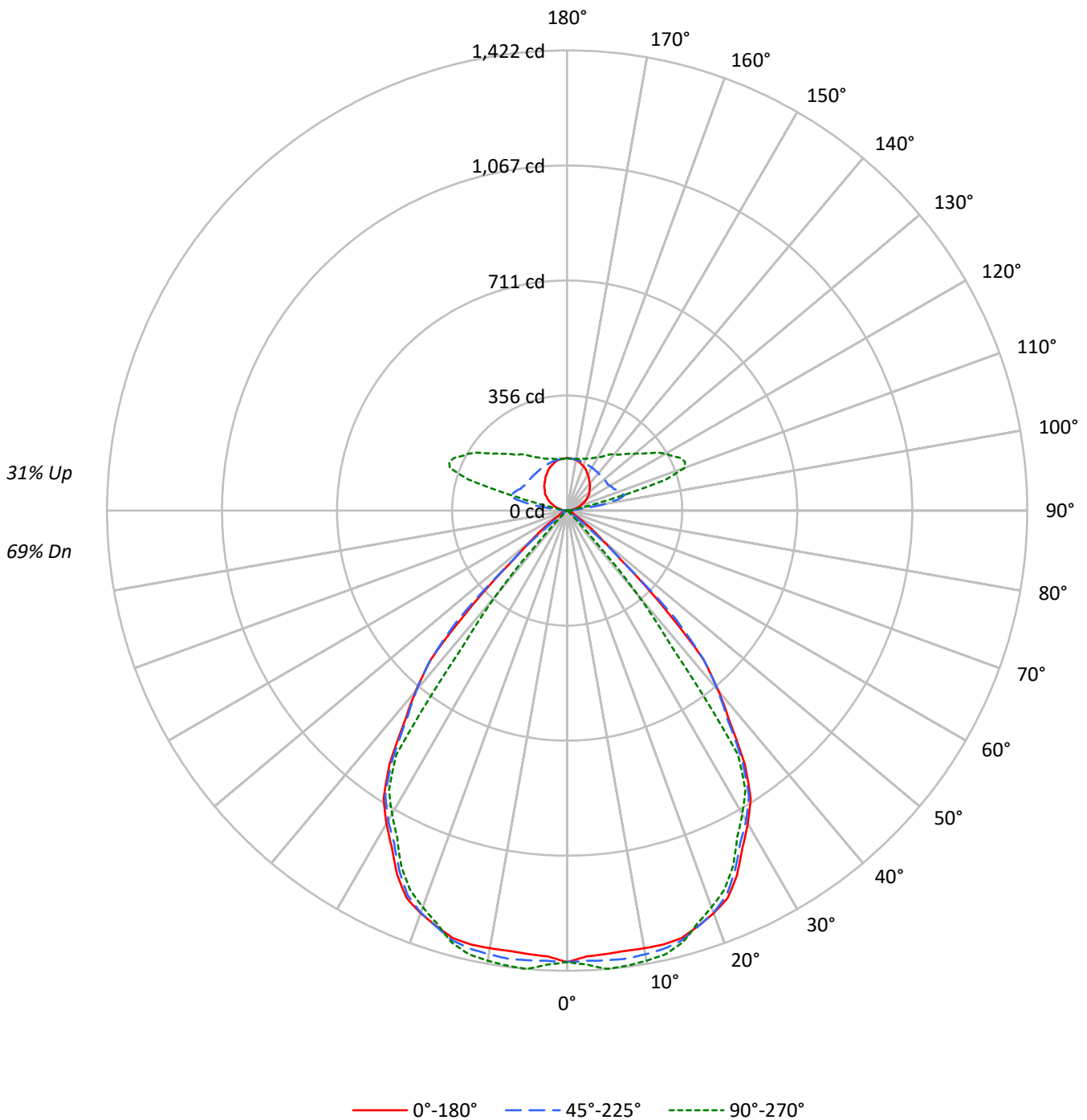
Input Watts (W): 27.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	94	94	94	83	83	83	74	74	74	69
1	105	101	98	96	99	96	94	91	87	85	83	78	76	75	69	68	68	64
2	98	92	87	83	93	88	84	80	80	76	74	72	70	68	65	63	62	58
3	92	84	78	73	87	80	75	71	73	69	66	67	64	61	60	58	56	53
4	86	77	70	65	81	73	68	63	67	63	59	62	58	55	56	54	51	49
5	80	70	63	59	76	67	61	57	62	57	54	57	53	50	52	49	47	45
6	75	65	58	53	71	62	56	51	57	52	49	53	49	46	49	46	43	41
7	70	60	53	48	67	57	51	47	53	48	44	49	45	42	46	42	40	38
8	66	55	48	44	63	53	47	43	49	44	41	46	42	39	43	39	37	35
9	62	51	44	40	59	49	43	39	46	41	37	43	39	36	40	36	34	32
10	58	47	41	37	56	46	40	36	43	38	34	40	36	33	38	34	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10010	10010	10010
5°	9907	10049	10241
10°	10007	10144	10295
15°	10159	10210	10261
20°	10110	10095	9959
25°	9834	9717	9600
30°	9252	9162	8966
35°	8381	8259	8060
40°	6816	6770	3200
45°	4218	4809	220
50°	1609	1289	132
55°	791	235	49
60°	383	113	14
65°	351	17	17
70°	332	21	21
75°	327	28	28
80°	326	41	0
85°	321	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 4809 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	4.8
10°-20°	386.5	13.8
20°-30°	561.9	20.0
30°-40°	559.2	19.9
40°-50°	245.9	8.8
50°-60°	36.3	1.3
60°-70°	8.3	0.3
70°-80°	3.1	0.1
80°-90°	1.1	0.0
90°-100°	19.9	0.7
100°-110°	141.6	5.0
110°-120°	192.2	6.9
120°-130°	156.4	5.6
130°-140°	125.8	4.5
140°-150°	99.2	3.5
150°-160°	72.5	2.6
160°-170°	45.0	1.6
170°-180°	15.4	0.5
0°-30°	1081.6	38.6
0°-40°	1640.8	58.5
0°-60°	1923.0	68.6
0°-90°	1935.5	69.0
90°-120°	353.6	12.6
90°-150°	735.0	26.2
90°-180°	868.0	31.0
0°-180°	2803.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1375	1399	1395	1398	1422	131
15°	1367	1396	1374	1361	1381	384
25°	1242	1265	1227	1195	1212	568
35°	957	954	943	923	920	586
45°	416	473	474	31	22	322
55°	63	68	19	7	4	64
65°	21	18	1	1	1	21
75°	12	2	1	1	1	12
85°	4	0	0	0	0	4
90°	0	1	2	3	3	1
95°	8	15	8	9	11	9
105°	32	48	184	235	156	33
115°	56	68	158	330	385	55
125°	80	91	149	261	309	71
135°	100	110	150	215	247	77
145°	118	128	151	187	207	74
155°	138	143	154	170	178	63
165°	154	155	158	163	166	43
175°	162	163	162	160	160	15
180°	162	162	162	162	162	



TEST NUMBER: P621997

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1379.2	1400.1	1392.6	1392.1	1404.5
5°	1375.3	1399.4	1395.0	1398.5	1421.7
7.5°	1372.5	1396.8	1396.8	1395.2	1418.3
10°	1373.3	1398.4	1392.1	1389.6	1412.8
12.5°	1373.3	1399.9	1386.5	1380.2	1404.1
15°	1367.4	1396.3	1374.3	1360.9	1381.2
17.5°	1346.0	1377.5	1347.2	1321.2	1338.2
20°	1323.9	1357.7	1322.0	1288.7	1304.2
22.5°	1296.3	1326.2	1287.2	1252.4	1268.6
25°	1242.0	1265.2	1227.2	1195.0	1212.4
27.5°	1173.5	1186.2	1157.9	1126.9	1138.1
30°	1116.6	1126.3	1105.7	1076.3	1082.1
32.5°	1055.8	1062.4	1045.7	1020.2	1025.2
35°	956.7	953.8	942.8	923.0	920.1
37.5°	827.1	822.1	815.1	738.5	529.6
40°	727.6	729.6	722.7	451.6	341.6
42.5°	622.6	634.5	624.7	307.5	111.8
45°	415.6	472.6	473.9	31.4	21.7
47.5°	224.7	286.7	233.2	19.5	15.8
50°	144.1	179.9	115.5	14.7	11.8
52.5°	103.1	120.3	45.2	11.6	8.7
55°	63.2	68.0	18.8	6.8	3.9
57.5°	37.7	44.9	11.8	2.5	1.0
60°	26.7	31.5	7.9	1.0	1.0
62.5°	23.5	23.7	5.5	1.0	1.0
65°	20.7	17.8	1.0	1.0	1.0
67.5°	18.2	13.0	1.0	1.0	1.0
70°	15.8	9.0	1.0	1.0	1.0
72.5°	14.2	5.9	1.0	1.0	1.0
75°	11.8	2.2	1.0	1.0	1.0
77.5°	9.5	1.2	1.0	0.8	0.8
80°	7.9	1.1	1.0	0.0	0.0
82.5°	6.3	1.1	0.2	0.0	0.0
85°	3.9	0.1	0.0	0.0	0.0
87.5°	1.6	0.2	0.4	0.6	0.6
90°	0.0	1.0	2.0	3.0	3.0
92.5°	2.4	3.4	4.5	6.3	7.1
95°	8.1	15.1	8.1	9.2	11.2
97.5°	14.4	28.9	59.8	17.6	15.2
100°	19.3	36.2	119.9	35.3	23.4
102.5°	24.2	41.9	162.2	93.1	51.0
105°	31.5	48.4	183.9	235.0	155.5
107.5°	38.8	51.5	175.6	342.0	320.3
110°	43.7	55.6	170.7	359.3	386.2



TEST NUMBER: P621997

CATALOG NUMBER: VLT-WB-M-025U-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	48.6	60.5	165.8	349.2	394.3
115°	55.9	67.8	158.5	329.5	385.2
117.5°	63.4	75.1	156.7	308.2	365.4
120°	69.1	80.0	153.5	292.0	351.6
122.5°	73.2	84.9	149.4	278.1	332.9
125°	80.3	91.2	149.4	261.2	308.9
127.5°	86.2	97.3	149.6	241.7	288.8
130°	89.4	101.4	150.4	228.7	273.4
132.5°	93.5	105.4	150.4	222.8	259.5
135°	99.6	110.5	150.4	215.1	246.9
137.5°	104.7	116.4	150.4	206.7	233.9
140°	108.7	119.7	150.4	201.8	226.6
142.5°	112.8	122.9	151.2	196.1	219.3
145°	117.9	127.8	151.4	187.4	207.3
147.5°	124.0	132.7	152.6	181.2	196.5
150°	128.0	136.0	153.5	177.1	190.0
152.5°	132.1	139.3	153.5	173.8	184.3
155°	138.2	143.2	154.5	169.9	177.8
157.5°	143.1	147.9	155.7	167.4	173.2
160°	146.3	150.3	156.5	165.8	170.7
162.5°	148.8	152.8	157.3	164.9	168.3
165°	153.5	155.4	158.5	162.7	165.6
167.5°	156.1	157.9	159.5	161.6	163.4
170°	158.5	159.5	159.5	161.6	162.6
172.5°	159.3	161.1	160.4	160.8	161.8
175°	161.6	162.6	161.6	160.5	159.5
177.5°	161.6	162.4	161.6	161.6	160.8
180°	161.6	161.6	161.6	161.6	161.6



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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	2.48	2.51	3.28	4.27	0.00	0.00	0.00	0.00	0.00
	3H	2.13	2.82	2.96	3.64	4.66	0.00	0.00	0.00	0.00	0.00
	4H	2.29	2.94	3.14	3.77	4.80	0.00	0.00	0.00	0.00	0.00
	6H	2.47	3.07	3.33	3.90	4.94	0.00	0.00	0.00	0.00	0.00
	8H	2.56	3.12	3.42	3.97	5.01	0.00	0.00	0.00	0.00	0.00
	12H	2.62	3.16	3.49	4.00	5.06	0.00	0.00	0.00	0.00	0.00
4H	2H	1.39	2.04	2.24	2.87	3.90	0.00	0.00	0.00	0.00	0.00
	3H	1.87	2.40	2.73	3.26	4.30	0.00	0.00	0.00	0.00	0.00
	4H	2.04	2.52	2.91	3.38	4.45	0.00	0.00	0.00	0.00	0.00
	6H	2.27	2.68	3.16	3.56	4.64	0.00	0.00	0.00	0.00	0.00
	8H	2.39	2.77	3.28	3.65	4.73	0.00	0.00	0.00	0.00	0.00
	12H	2.50	2.84	3.40	3.73	4.82	0.00	0.00	0.00	0.00	0.00
8H	4H	1.87	2.25	2.76	3.13	4.21	0.00	0.00	0.00	0.00	0.00
	6H	2.10	2.41	3.01	3.33	4.42	0.00	0.00	0.00	0.00	0.00
	8H	2.23	2.51	3.16	3.42	4.52	0.00	0.00	0.00	0.00	0.00
	12H	2.37	2.61	3.29	3.51	4.67	0.00	0.00	0.00	0.00	0.00
12H	4H	1.80	2.14	2.70	3.04	4.12	0.00	0.00	0.00	0.00	0.00
	6H	2.04	2.31	2.96	3.23	4.33	0.00	0.00	0.00	0.00	0.00
	8H	2.17	2.41	3.09	3.31	4.47	0.00	0.00	0.00	0.00	0.00