

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: P622009

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622009
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-050D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

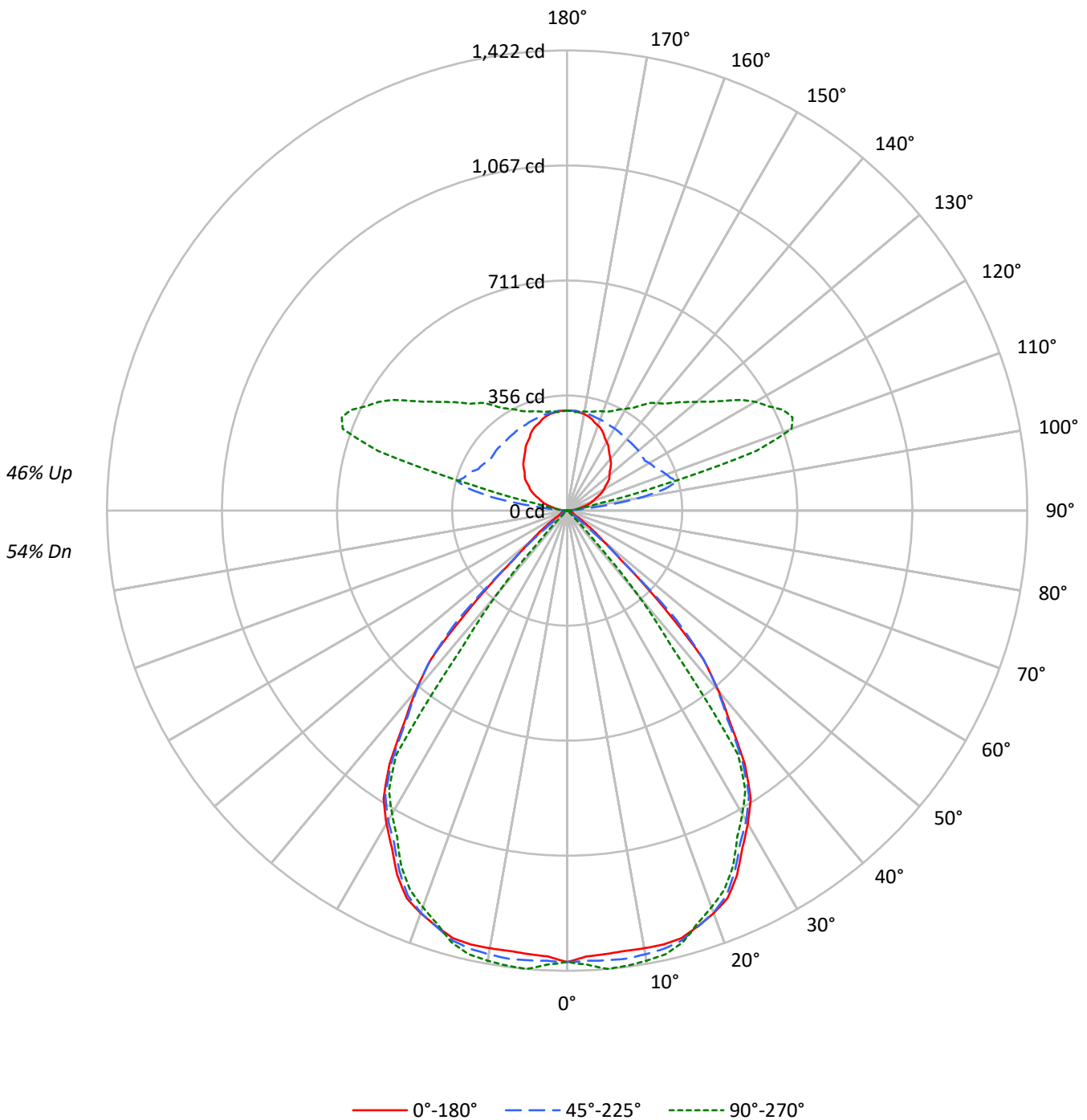
Lumens per Lamp: N/A
Luminaire Lumens: 3595.3 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 34.4
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	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54				
1	101	97	94	91	94	91	88	86	78	76	75	67	65	64	56	55	55	50				
2	94	88	83	79	87	82	78	74	71	68	66	61	59	57	52	51	50	45				
3	87	79	73	69	81	74	69	65	65	61	58	57	54	52	49	47	45	42				
4	81	72	65	60	76	68	62	58	60	55	52	52	49	47	45	43	41	38				
5	75	66	59	54	70	62	56	51	55	50	47	48	45	42	42	40	38	35				
6	70	60	53	48	66	57	51	46	50	46	42	45	41	38	39	37	35	32				
7	66	55	48	43	62	52	46	42	47	42	38	41	38	35	37	34	32	29				
8	62	51	44	39	58	48	42	38	43	38	35	39	35	32	34	31	29	27				
9	58	47	40	36	54	45	38	34	40	35	32	36	32	29	32	29	27	25				
10	54	43	37	33	51	41	35	31	37	33	29	34	30	27	30	27	25	23				

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	3.7
10°-20°	386.5	10.7
20°-30°	561.9	15.6
30°-40°	559.2	15.6
40°-50°	245.9	6.8
50°-60°	36.3	1.0
60°-70°	8.3	0.2
70°-80°	3.1	0.1
80°-90°	1.4	0.0
90°-100°	38.0	1.1
100°-110°	270.7	7.5
110°-120°	367.5	10.2
120°-130°	299.1	8.3
130°-140°	240.5	6.7
140°-150°	189.6	5.3
150°-160°	138.7	3.9
160°-170°	86.1	2.4
170°-180°	29.4	0.8
0°-30°	1081.6	30.1
0°-40°	1640.8	45.6
0°-60°	1923.0	53.5
0°-90°	1935.8	53.8
90°-120°	676.1	18.8
90°-150°	1405.3	39.1
90°-180°	1659.0	46.1
0°-180°	3595.3	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	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°	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	0.4	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	0.33	1.04	1.30	1.99	3.22	0.00	0.00	0.00	0.00	0.00
	3H	0.77	1.40	1.75	2.36	3.61	0.00	0.00	0.00	0.00	0.00
	4H	0.93	1.52	1.92	2.48	3.75	0.00	0.00	0.00	0.00	0.00
	6H	1.11	1.65	2.11	2.62	3.89	0.00	0.00	0.00	0.00	0.00
	8H	1.19	1.71	2.20	2.69	3.96	0.00	0.00	0.00	0.00	0.00
	12H	1.26	1.74	2.26	2.72	4.01	0.00	0.00	0.00	0.00	0.00
4H	2H	0.03	0.62	1.03	1.58	2.85	0.00	0.00	0.00	0.00	0.00
	3H	0.51	0.99	1.50	1.98	3.26	0.00	0.00	0.00	0.00	0.00
	4H	0.68	1.12	1.68	2.11	3.41	0.00	0.00	0.00	0.00	0.00
	6H	0.91	1.28	1.92	2.29	3.59	0.00	0.00	0.00	0.00	0.00
	8H	1.02	1.38	2.04	2.38	3.69	0.00	0.00	0.00	0.00	0.00
	12H	1.13	1.44	2.16	2.46	3.78	0.00	0.00	0.00	0.00	0.00
8H	4H	0.51	0.86	1.52	1.86	3.17	0.00	0.00	0.00	0.00	0.00
	6H	0.74	1.02	1.78	2.07	3.38	0.00	0.00	0.00	0.00	0.00
	8H	0.87	1.12	1.92	2.16	3.48	0.00	0.00	0.00	0.00	0.00
	12H	1.00	1.22	2.05	2.25	3.62	0.00	0.00	0.00	0.00	0.00
12H	4H	0.43	0.75	1.47	1.77	3.08	0.00	0.00	0.00	0.00	0.00
	6H	0.68	0.93	1.73	1.96	3.29	0.00	0.00	0.00	0.00	0.00
	8H	0.81	1.03	1.85	2.05	3.42	0.00	0.00	0.00	0.00	0.00