

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: P621998

Luminaire Tested: VLT-WB-M-025U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621998
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-935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2839.6 lumens
Efficiency: N/A
Efficacy: 103.6 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: Semi-Direct

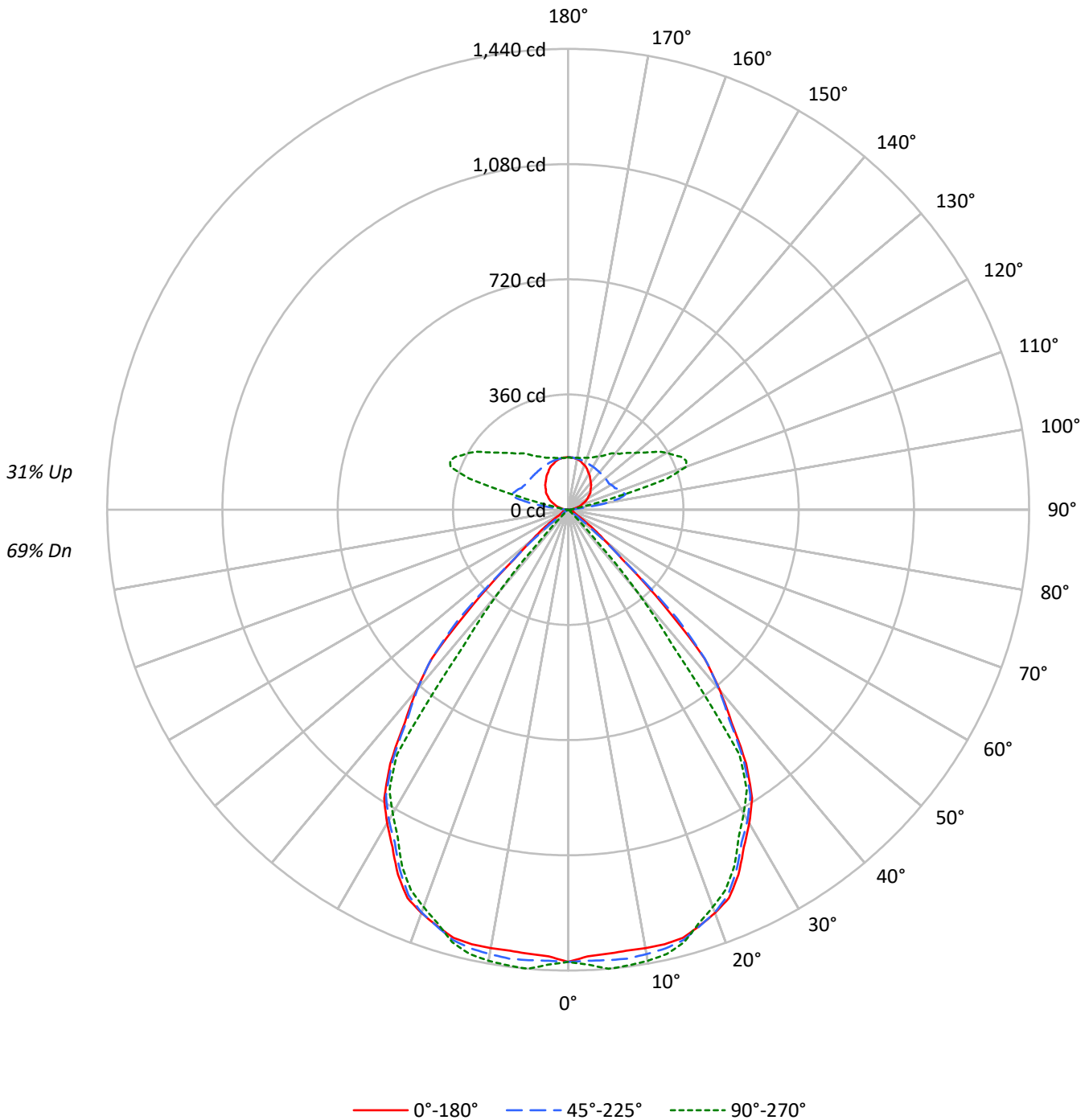
Input Watts (W): 27.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	10140	10140	10140
5°	10034	10178	10373
10°	10136	10274	10427
15°	10289	10341	10393
20°	10241	10225	10088
25°	9961	9842	9723
30°	9372	9280	9082
35°	8489	8366	8165
40°	6904	6857	3241
45°	4272	4871	223
50°	1630	1306	134
55°	801	238	50
60°	388	115	14
65°	357	17	17
70°	336	21	21
75°	333	28	28
80°	331	41	0
85°	329	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4871 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	4.8
10°-20°	391.5	13.8
20°-30°	569.2	20.0
30°-40°	566.4	19.9
40°-50°	249.1	8.8
50°-60°	36.8	1.3
60°-70°	8.4	0.3
70°-80°	3.1	0.1
80°-90°	1.1	0.0
90°-100°	20.1	0.7
100°-110°	143.4	5.0
110°-120°	194.7	6.9
120°-130°	158.4	5.6
130°-140°	127.4	4.5
140°-150°	100.5	3.5
150°-160°	73.5	2.6
160°-170°	45.6	1.6
170°-180°	15.6	0.5
0°-30°	1095.6	38.6
0°-40°	1662.0	58.5
0°-60°	1947.8	68.6
0°-90°	1960.4	69.0
90°-120°	358.2	12.6
90°-150°	744.5	26.2
90°-180°	879.0	31.0
0°-180°	2839.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1413	1413	1413	1413	1413	
5°	1393	1417	1413	1416	1440	133
15°	1385	1414	1392	1378	1399	389
25°	1258	1282	1243	1210	1228	575
35°	969	966	955	935	932	593
45°	421	479	480	32	22	326
55°	64	69	19	7	4	65
65°	21	18	1	1	1	21
75°	12	2	1	1	1	13
85°	4	0	0	0	0	4
90°	0	1	2	3	3	1
95°	8	15	8	9	11	9
105°	32	49	186	238	158	34
115°	57	69	161	334	390	56
125°	81	92	151	265	313	72
135°	101	112	152	218	250	78
145°	119	130	153	190	210	75
155°	140	145	156	172	180	64
165°	155	157	161	165	168	44
175°	164	165	164	163	162	15
180°	164	164	164	164	164	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1413.0	1413.0	1413.0	1413.0	1413.0
2.5°	1397.0	1418.1	1410.6	1410.1	1422.6
5°	1393.0	1417.4	1413.0	1416.5	1440.0
7.5°	1390.2	1414.8	1414.8	1413.1	1436.6
10°	1391.0	1416.4	1410.0	1407.5	1431.0
12.5°	1391.0	1418.0	1404.4	1397.9	1422.2
15°	1385.0	1414.3	1392.0	1378.5	1399.0
17.5°	1363.4	1395.3	1364.6	1338.2	1355.4
20°	1341.0	1375.2	1339.0	1305.4	1321.0
22.5°	1313.0	1343.3	1303.8	1268.6	1285.0
25°	1258.0	1281.5	1243.0	1210.4	1228.0
27.5°	1188.6	1201.5	1172.8	1141.5	1152.8
30°	1131.0	1140.8	1120.0	1090.1	1096.0
32.5°	1069.4	1076.0	1059.2	1033.3	1038.4
35°	969.0	966.1	955.0	934.9	932.0
37.5°	837.8	832.7	825.6	748.0	536.4
40°	737.0	739.0	732.0	457.5	346.0
42.5°	630.6	642.7	632.8	311.5	113.2
45°	421.0	478.7	480.0	31.8	22.0
47.5°	227.6	290.4	236.2	19.7	16.0
50°	146.0	182.2	117.0	14.9	12.0
52.5°	104.4	121.8	45.8	11.7	8.8
55°	64.0	68.9	19.0	6.9	4.0
57.5°	38.2	45.4	12.0	2.6	1.0
60°	27.0	31.9	8.0	1.0	1.0
62.5°	23.8	24.0	5.6	1.0	1.0
65°	21.0	18.1	1.0	1.0	1.0
67.5°	18.4	13.1	1.0	1.0	1.0
70°	16.0	9.2	1.0	1.0	1.0
72.5°	14.4	6.0	1.0	1.0	1.0
75°	12.0	2.2	1.0	1.0	1.0
77.5°	9.6	1.2	1.0	0.8	0.8
80°	8.0	1.2	1.0	0.0	0.0
82.5°	6.4	1.1	0.2	0.0	0.0
85°	4.0	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	2.1	3.1	3.1
92.5°	2.5	3.5	4.5	6.4	7.2
95°	8.2	15.3	8.2	9.3	11.3
97.5°	14.6	29.3	60.5	17.9	15.4
100°	19.6	36.7	121.5	35.8	23.7
102.5°	24.5	42.4	164.3	94.3	51.7
105°	31.9	49.0	186.3	238.0	157.5
107.5°	39.3	52.2	177.9	346.4	324.4
110°	44.3	56.3	172.9	364.0	391.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	49.2	61.3	168.0	353.7	399.4
115°	56.6	68.7	160.6	333.8	390.1
117.5°	64.2	76.1	158.7	312.2	370.1
120°	70.0	81.1	155.4	295.8	356.1
122.5°	74.1	86.0	151.3	281.7	337.2
125°	81.3	92.4	151.3	264.6	312.9
127.5°	87.3	98.6	151.5	244.8	292.5
130°	90.6	102.7	152.3	231.6	276.9
132.5°	94.7	106.8	152.3	225.7	262.9
135°	100.9	111.9	152.3	217.9	250.1
137.5°	106.0	117.9	152.3	209.4	237.0
140°	110.1	121.2	152.3	204.4	229.5
142.5°	114.3	124.5	153.2	198.6	222.1
145°	119.4	129.5	153.4	189.9	210.0
147.5°	125.6	134.4	154.6	183.6	199.1
150°	129.7	137.7	155.4	179.4	192.5
152.5°	133.8	141.1	155.4	176.1	186.7
155°	140.0	145.0	156.5	172.1	180.1
157.5°	144.9	149.8	157.7	169.6	175.4
160°	148.2	152.3	158.5	167.9	172.9
162.5°	150.7	154.7	159.3	167.0	170.5
165°	155.4	157.4	160.6	164.8	167.8
167.5°	158.1	159.9	161.6	163.7	165.5
170°	160.6	161.6	161.6	163.7	164.7
172.5°	161.4	163.2	162.4	162.9	163.9
175°	163.7	164.7	163.7	162.6	161.6
177.5°	163.7	164.5	163.7	163.6	162.8
180°	163.7	163.7	163.7	163.7	163.7



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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	1.73	2.52	2.55	3.33	4.31	0.00	0.00	0.00	0.00	0.00
	3H	2.18	2.87	3.01	3.69	4.71	0.00	0.00	0.00	0.00	0.00
	4H	2.34	2.99	3.18	3.81	4.84	0.00	0.00	0.00	0.00	0.00
	6H	2.52	3.12	3.38	3.95	4.99	0.00	0.00	0.00	0.00	0.00
	8H	2.61	3.17	3.47	4.02	5.06	0.00	0.00	0.00	0.00	0.00
	12H	2.68	3.21	3.54	4.05	5.11	0.00	0.00	0.00	0.00	0.00
4H	2H	1.44	2.09	2.29	2.91	3.94	0.00	0.00	0.00	0.00	0.00
	3H	1.92	2.45	2.77	3.31	4.35	0.00	0.00	0.00	0.00	0.00
	4H	2.09	2.57	2.96	3.43	4.50	0.00	0.00	0.00	0.00	0.00
	6H	2.32	2.74	3.21	3.62	4.69	0.00	0.00	0.00	0.00	0.00
	8H	2.44	2.83	3.33	3.70	4.78	0.00	0.00	0.00	0.00	0.00
	12H	2.55	2.89	3.45	3.79	4.88	0.00	0.00	0.00	0.00	0.00
8H	4H	1.92	2.30	2.80	3.18	4.26	0.00	0.00	0.00	0.00	0.00
	6H	2.15	2.46	3.06	3.38	4.47	0.00	0.00	0.00	0.00	0.00
	8H	2.29	2.56	3.21	3.47	4.58	0.00	0.00	0.00	0.00	0.00
	12H	2.42	2.67	3.34	3.57	4.73	0.00	0.00	0.00	0.00	0.00
12H	4H	1.85	2.19	2.75	3.09	4.17	0.00	0.00	0.00	0.00	0.00
	6H	2.09	2.36	3.01	3.28	4.38	0.00	0.00	0.00	0.00	0.00
	8H	2.22	2.46	3.14	3.36	4.52	0.00	0.00	0.00	0.00	0.00