

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: P622010

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622010
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-935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

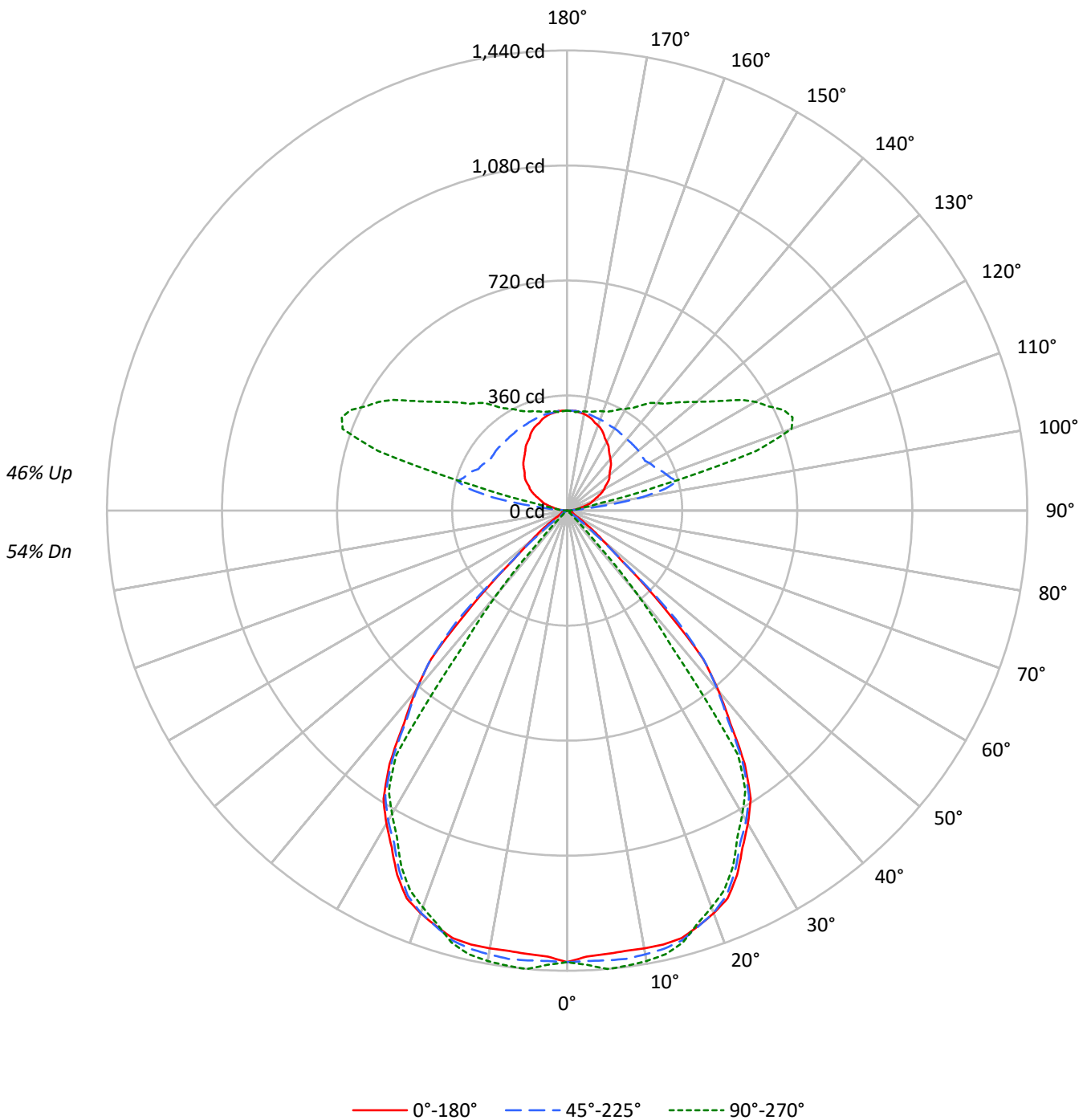
Lumens per Lamp: N/A
Luminaire Lumens: 3641.6 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	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	3.7
10°-20°	391.5	10.7
20°-30°	569.2	15.6
30°-40°	566.4	15.6
40°-50°	249.1	6.8
50°-60°	36.8	1.0
60°-70°	8.4	0.2
70°-80°	3.1	0.1
80°-90°	1.4	0.0
90°-100°	38.5	1.1
100°-110°	274.1	7.5
110°-120°	372.2	10.2
120°-130°	302.9	8.3
130°-140°	243.6	6.7
140°-150°	192.1	5.3
150°-160°	140.4	3.9
160°-170°	87.2	2.4
170°-180°	29.7	0.8
0°-30°	1095.6	30.1
0°-40°	1662.0	45.6
0°-60°	1947.8	53.5
0°-90°	1960.8	53.8
90°-120°	684.8	18.8
90°-150°	1423.4	39.1
90°-180°	1681.0	46.2
0°-180°	3641.6	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	2	4	6	6	1
95°	16	29	16	18	22	18
105°	61	94	356	455	301	64
115°	108	131	307	638	746	107
125°	156	177	289	506	598	138
135°	193	214	291	417	478	148
145°	228	248	293	363	402	143
155°	268	277	299	329	344	123
165°	297	301	307	315	321	83
175°	313	315	313	311	309	30
180°	313	313	313	313	313	



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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	0.4	0.8	1.2	1.2
90°	0.0	1.9	3.9	5.9	5.9
92.5°	4.7	6.6	8.7	12.2	13.8
95°	15.7	29.2	15.7	17.8	21.6
97.5°	27.9	56.0	115.7	34.1	29.5
100°	37.4	70.1	232.2	68.4	45.3
102.5°	46.8	81.1	314.1	180.4	98.8
105°	61.0	93.7	356.2	455.0	301.1
107.5°	75.2	99.8	340.1	662.3	620.3
110°	84.6	107.7	330.6	695.9	747.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.1	117.2	321.2	676.2	763.6
115°	108.2	131.3	307.0	638.1	745.9
117.5°	122.8	145.5	303.5	596.9	707.7
120°	133.8	155.0	297.2	565.5	680.9
122.5°	141.7	164.4	289.3	538.5	644.7
125°	155.5	176.6	289.3	505.9	598.3
127.5°	166.9	188.4	289.7	468.1	559.3
130°	173.2	196.3	291.3	442.8	529.4
132.5°	181.1	204.1	291.3	431.4	502.6
135°	192.9	214.0	291.3	416.6	478.2
137.5°	202.7	225.4	291.3	400.3	453.0
140°	210.6	231.7	291.3	390.8	438.9
142.5°	218.4	238.1	292.8	379.7	424.7
145°	228.3	247.5	293.2	363.0	401.5
147.5°	240.1	257.0	295.6	351.0	380.6
150°	248.0	263.4	297.2	343.0	368.0
152.5°	255.8	269.7	297.2	336.6	357.0
155°	267.6	277.3	299.1	329.0	344.4
157.5°	277.1	286.3	301.5	324.2	335.3
160°	283.4	291.1	303.1	321.0	330.6
162.5°	288.1	295.8	304.6	319.4	325.9
165°	297.2	301.0	307.0	315.0	320.8
167.5°	302.3	305.7	309.0	313.0	316.5
170°	307.0	308.9	309.0	313.0	314.9
172.5°	308.6	312.0	310.5	311.4	313.3
175°	312.9	314.8	312.9	310.9	309.0
177.5°	312.9	314.4	312.9	312.9	311.3
180°	312.9	312.9	312.9	312.9	312.9



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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	0.38	1.09	1.34	2.03	3.27	0.00	0.00	0.00	0.00	0.00
	3H	0.82	1.45	1.79	2.40	3.66	0.00	0.00	0.00	0.00	0.00
	4H	0.98	1.57	1.97	2.53	3.79	0.00	0.00	0.00	0.00	0.00
	6H	1.16	1.70	2.16	2.67	3.94	0.00	0.00	0.00	0.00	0.00
	8H	1.25	1.76	2.25	2.74	4.01	0.00	0.00	0.00	0.00	0.00
	12H	1.31	1.80	2.32	2.77	4.07	0.00	0.00	0.00	0.00	0.00
4H	2H	0.08	0.67	1.07	1.63	2.89	0.00	0.00	0.00	0.00	0.00
	3H	0.55	1.04	1.55	2.03	3.31	0.00	0.00	0.00	0.00	0.00
	4H	0.73	1.17	1.73	2.15	3.45	0.00	0.00	0.00	0.00	0.00
	6H	0.96	1.34	1.98	2.34	3.64	0.00	0.00	0.00	0.00	0.00
	8H	1.08	1.43	2.09	2.43	3.74	0.00	0.00	0.00	0.00	0.00
	12H	1.19	1.50	2.22	2.52	3.83	0.00	0.00	0.00	0.00	0.00
8H	4H	0.55	0.91	1.57	1.91	3.22	0.00	0.00	0.00	0.00	0.00
	6H	0.79	1.07	1.83	2.12	3.43	0.00	0.00	0.00	0.00	0.00
	8H	0.93	1.18	1.97	2.21	3.54	0.00	0.00	0.00	0.00	0.00
	12H	1.06	1.28	2.11	2.31	3.68	0.00	0.00	0.00	0.00	0.00
12H	4H	0.48	0.80	1.51	1.82	3.13	0.00	0.00	0.00	0.00	0.00
	6H	0.73	0.98	1.78	2.01	3.34	0.00	0.00	0.00	0.00	0.00
	8H	0.86	1.08	1.91	2.10	3.48	0.00	0.00	0.00	0.00	0.00