

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: P622047

Luminaire Tested: VLT-WB-M-100U-050D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622047
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-100U-050D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5519.7 lumens
Efficiency: N/A
Efficacy: 107.0 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-Indirect

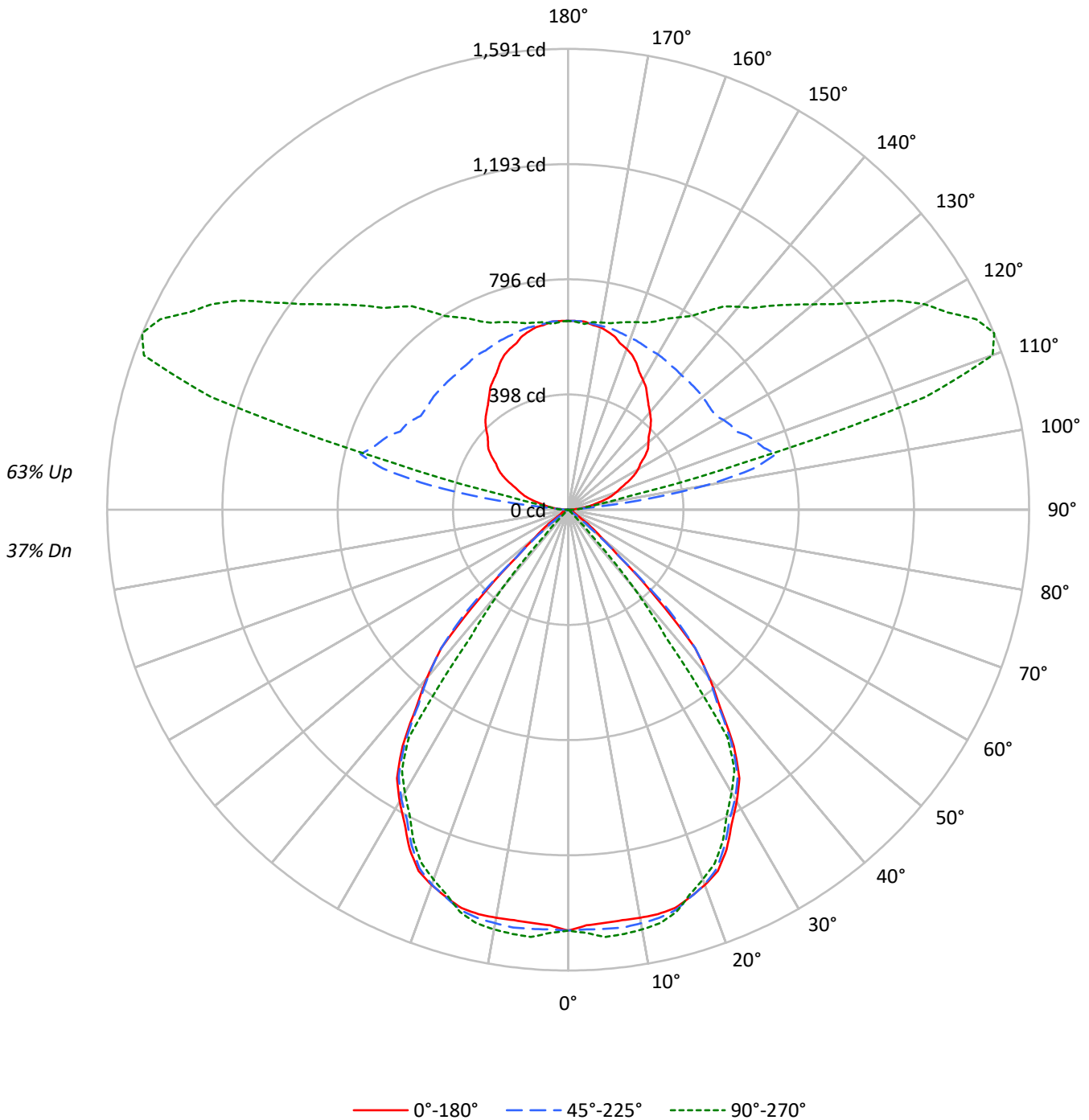
Input Watts (W): 51.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	96	93	89	86	87	84	82	79	69	67	65	54	53	52	41	40	40	34
2	89	83	78	73	81	75	71	67	62	59	56	50	48	46	38	37	36	31
3	82	74	68	63	75	68	63	58	56	53	49	45	43	41	35	34	33	28
4	76	67	60	55	69	61	56	51	51	47	44	42	39	37	33	31	30	26
5	70	60	53	48	64	56	49	45	47	42	39	38	35	33	30	28	27	24
6	65	55	48	43	60	51	44	40	43	38	35	35	32	30	28	26	25	22
7	61	50	43	38	56	46	40	36	39	35	31	32	29	27	26	24	23	20
8	57	46	39	34	52	42	36	32	36	32	28	30	27	24	24	22	21	18
9	53	42	35	31	49	39	33	29	33	29	26	28	25	22	23	21	19	17
10	50	39	32	28	46	36	30	26	31	26	23	26	23	21	21	19	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10426	10426	10426
5°	10317	10466	10666
10°	10422	10564	10722
15°	10580	10633	10687
20°	10530	10514	10373
25°	10242	10120	9998
30°	9636	9542	9338
35°	8729	8603	8395
40°	7099	7051	3333
45°	4393	5009	229
50°	1676	1343	137
55°	823	244	51
60°	399	118	14
65°	367	17	17
70°	346	21	21
75°	341	28	28
80°	339	41	0
85°	338	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5009 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	2.5
10°-20°	402.5	7.3
20°-30°	585.2	10.6
30°-40°	582.4	10.6
40°-50°	256.1	4.6
50°-60°	37.8	0.7
60°-70°	8.6	0.2
70°-80°	3.2	0.1
80°-90°	2.2	0.0
90°-100°	80.2	1.5
100°-110°	571.3	10.4
110°-120°	775.6	14.1
120°-130°	631.3	11.4
130°-140°	507.7	9.2
140°-150°	400.3	7.3
150°-160°	292.7	5.3
160°-170°	181.8	3.3
170°-180°	62.0	1.1
0°-30°	1126.5	20.4
0°-40°	1708.9	31.0
0°-60°	2002.8	36.3
0°-90°	2016.8	36.5
90°-120°	1427.1	25.9
90°-150°	2966.4	53.7
90°-180°	3503.0	63.5
0°-180°	5519.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1432	1458	1453	1456	1481	137
15°	1424	1454	1431	1417	1438	400
25°	1294	1318	1278	1245	1263	591
35°	996	993	982	961	958	610
45°	433	492	494	33	23	335
55°	66	71	20	7	4	66
65°	22	19	1	1	1	22
75°	12	2	1	1	1	13
85°	4	0	0	0	0	4
90°	0	4	8	12	12	2
95°	33	61	33	37	45	37
105°	127	195	742	948	628	134
115°	226	274	640	1330	1554	224
125°	324	368	603	1054	1247	288
135°	402	446	607	868	997	309
145°	476	516	611	756	837	299
155°	558	578	623	686	718	256
165°	619	627	640	656	668	174
175°	652	656	652	648	644	62
180°	652	652	652	652	652	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.9	1452.9	1452.9	1452.9	1452.9
2.5°	1436.4	1458.2	1450.4	1449.9	1462.8
5°	1432.3	1457.5	1452.9	1456.5	1480.7
7.5°	1429.5	1454.8	1454.8	1453.0	1477.2
10°	1430.3	1456.4	1449.8	1447.3	1471.4
12.5°	1430.3	1458.0	1444.1	1437.4	1462.4
15°	1424.1	1454.3	1431.3	1417.4	1438.5
17.5°	1401.9	1434.7	1403.1	1376.0	1393.7
20°	1378.9	1414.1	1376.8	1342.2	1358.3
22.5°	1350.1	1381.2	1340.6	1304.4	1321.3
25°	1293.5	1317.7	1278.1	1244.6	1262.7
27.5°	1222.2	1235.4	1205.9	1173.7	1185.4
30°	1162.9	1173.0	1151.6	1120.9	1126.9
32.5°	1099.6	1106.4	1089.1	1062.5	1067.7
35°	996.4	993.3	982.0	961.3	958.3
37.5°	861.5	856.2	848.9	769.1	551.5
40°	757.8	759.8	752.7	470.4	355.8
42.5°	648.4	660.9	650.7	320.3	116.4
45°	432.9	492.2	493.6	32.7	22.6
47.5°	234.0	298.6	242.9	20.3	16.5
50°	150.1	187.3	120.3	15.4	12.3
52.5°	107.3	125.2	47.1	12.1	9.0
55°	65.8	70.8	19.5	7.1	4.1
57.5°	39.3	46.7	12.3	2.6	1.0
60°	27.8	32.8	8.2	1.0	1.0
62.5°	24.5	24.7	5.8	1.0	1.0
65°	21.6	18.6	1.0	1.0	1.0
67.5°	18.9	13.5	1.0	1.0	1.0
70°	16.5	9.4	1.0	1.0	1.0
72.5°	14.8	6.2	1.0	1.0	1.0
75°	12.3	2.3	1.0	1.0	1.0
77.5°	9.9	1.2	1.0	0.8	0.8
80°	8.2	1.2	1.0	0.0	0.0
82.5°	6.6	1.2	0.2	0.0	0.0
85°	4.1	0.1	0.0	0.0	0.0
87.5°	1.6	0.8	1.6	2.5	2.5
90°	0.0	4.0	8.2	12.3	12.3
92.5°	9.8	13.9	18.0	25.5	28.7
95°	32.8	60.9	32.8	37.1	45.1
97.5°	58.2	116.8	241.2	71.1	61.5
100°	77.9	146.1	483.9	142.5	94.3
102.5°	97.6	169.0	654.6	375.9	205.9
105°	127.1	195.3	742.3	948.3	627.5
107.5°	156.7	208.0	708.7	1380.1	1292.7
110°	176.4	224.5	689.0	1450.2	1558.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	196.0	244.2	669.3	1409.2	1591.3
115°	225.6	273.7	639.8	1329.8	1554.4
117.5°	255.9	303.2	632.4	1243.8	1474.8
120°	278.9	323.0	619.3	1178.4	1419.0
122.5°	295.3	342.6	602.9	1122.2	1343.6
125°	324.0	368.1	602.9	1054.3	1246.8
127.5°	347.8	392.7	603.7	975.5	1165.6
130°	360.9	409.0	607.0	922.8	1103.2
132.5°	377.3	425.4	607.0	899.1	1047.5
135°	401.9	446.0	607.0	868.3	996.6
137.5°	422.4	469.7	607.0	834.2	944.1
140°	438.8	482.9	607.0	814.3	914.6
142.5°	455.2	496.1	610.3	791.2	885.1
145°	475.7	515.8	611.1	756.5	836.7
147.5°	500.4	535.6	616.0	731.4	793.2
150°	516.8	548.8	619.3	714.8	766.9
152.5°	533.2	562.0	619.3	701.5	744.0
155°	557.8	577.8	623.4	685.6	717.7
157.5°	577.5	596.7	628.3	675.6	698.9
160°	590.6	606.6	631.6	669.0	689.0
162.5°	600.4	616.5	634.9	665.5	679.2
165°	619.3	627.3	639.8	656.5	668.5
167.5°	630.0	637.2	643.9	652.3	659.5
170°	639.8	643.8	643.9	652.2	656.2
172.5°	643.1	650.3	647.2	648.9	652.9
175°	652.1	656.1	652.1	647.9	643.9
177.5°	652.1	655.3	652.1	652.0	648.8
180°	652.1	652.1	652.1	652.1	652.1



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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	0.00	0.00	0.00	0.35	1.82	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.18	0.73	2.21	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.35	0.85	2.34	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.54	0.99	2.49	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.62	1.06	2.55	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.69	1.10	2.61	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	1.44	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.36	1.86	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.11	0.49	2.01	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.34	0.68	2.19	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.46	0.76	2.29	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.58	0.85	2.38	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.24	1.77	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.19	0.46	1.98	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.34	0.55	2.09	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.47	0.64	2.23	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.15	1.68	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.14	0.35	1.89	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.27	0.44	2.02	0.00	0.00	0.00	0.00	0.00