

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: P622048

Luminaire Tested: VLT-WB-M-100U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622048
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-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

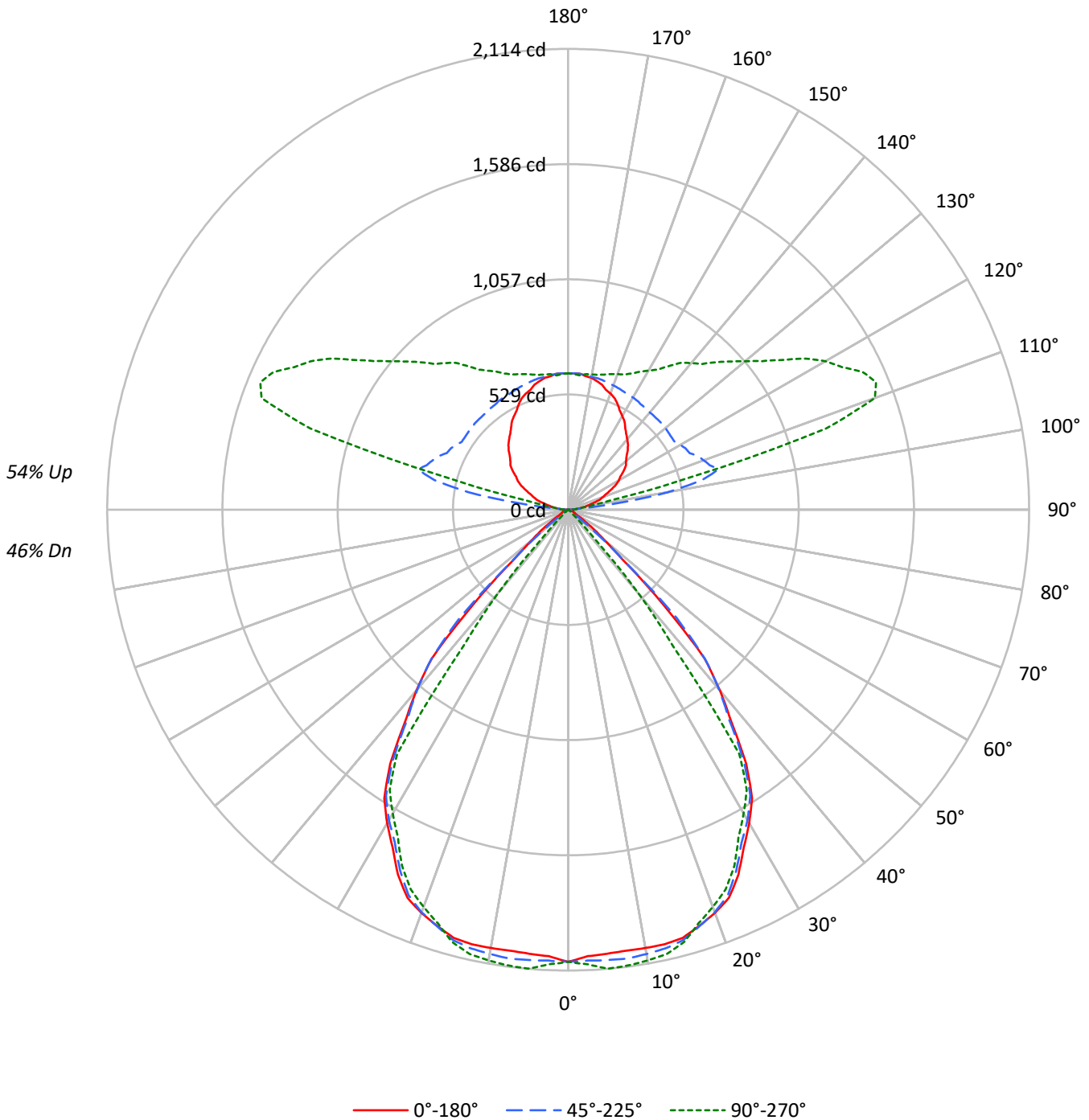
Lumens per Lamp: N/A
Luminaire Lumens: 6241.6 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 61.3
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



TEST NUMBER: P622048
CATALOG NUMBER: VLT-WB-M-100U-075D-930-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P622048

CATALOG NUMBER: VLT-WB-M-100U-075D-930-UNV-STD-W-4

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	53	53	53	46				
1	99	95	92	89	91	88	85	83	74	72	70	61	60	59	49	49	48	43				
2	92	85	80	76	84	79	75	71	67	64	62	56	54	52	46	45	44	39				
3	85	77	71	66	78	72	66	62	61	57	54	52	49	47	43	41	40	36				
4	79	70	63	58	73	65	59	55	56	52	48	47	44	42	40	38	36	33				
5	73	63	56	51	68	59	53	48	51	47	43	44	40	38	37	35	33	30				
6	68	58	51	46	63	54	48	43	47	42	39	40	37	34	34	32	30	27				
7	64	53	46	41	59	49	43	39	43	39	35	37	34	31	32	29	28	25				
8	59	48	42	37	55	46	39	35	40	35	32	35	31	29	30	27	25	23				
9	56	45	38	33	52	42	36	32	37	32	29	32	29	26	28	25	23	21				
10	52	41	35	30	49	39	33	29	34	30	27	30	27	24	26	24	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14882	14882	14882
5°	14727	14939	15224
10°	14876	15079	15304
15°	15102	15178	15254
20°	15030	15007	14806
25°	14619	14444	14270
30°	13755	13621	13329
35°	12459	12278	11983
40°	10133	10064	4757
45°	6271	7149	328
50°	2392	1917	196
55°	1175	349	74
60°	568	168	22
65°	523	25	25
70°	493	31	31
75°	488	42	42
80°	483	62	0
85°	486	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 7149 cd/sqm



TEST NUMBER: P622048

CATALOG NUMBER: VLT-WB-M-100U-075D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	3.2
10°-20°	574.5	9.2
20°-30°	835.4	13.4
30°-40°	831.3	13.3
40°-50°	365.6	5.9
50°-60°	54.0	0.9
60°-70°	12.3	0.2
70°-80°	4.6	0.1
80°-90°	2.5	0.0
90°-100°	77.0	1.2
100°-110°	548.6	8.8
110°-120°	744.7	11.9
120°-130°	606.1	9.7
130°-140°	487.5	7.8
140°-150°	384.3	6.2
150°-160°	281.0	4.5
160°-170°	174.6	2.8
170°-180°	59.5	1.0
0°-30°	1608.0	25.8
0°-40°	2439.3	39.1
0°-60°	2858.8	45.8
0°-90°	2878.2	46.1
90°-120°	1370.3	22.0
90°-150°	2848.3	45.6
90°-180°	3363.0	53.9
0°-180°	6241.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2044	2080	2074	2079	2114	195
15°	2033	2076	2043	2023	2053	572
25°	1846	1881	1824	1776	1802	844
35°	1422	1418	1402	1372	1368	871
45°	618	703	704	47	32	478
55°	94	101	28	10	6	95
65°	31	26	2	2	2	31
75°	18	3	2	2	2	19
85°	6	0	0	0	0	6
90°	0	4	8	12	12	2
95°	32	58	32	36	43	35
105°	122	188	713	910	602	129
115°	217	263	614	1277	1492	215
125°	311	353	579	1012	1197	276
135°	386	428	583	834	957	297
145°	457	495	587	726	803	287
155°	536	555	599	658	689	246
165°	595	602	614	630	642	167
175°	626	630	626	622	618	59
180°	626	626	626	626	626	



TEST NUMBER: P622048

CATALOG NUMBER: VLT-WB-M-100U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2073.9	2073.9	2073.9	2073.9	2073.9
2.5°	2050.4	2081.4	2070.3	2069.6	2087.9
5°	2044.5	2080.4	2073.9	2079.0	2113.5
7.5°	2040.4	2076.6	2076.5	2074.0	2108.5
10°	2041.6	2078.9	2069.4	2065.8	2100.3
12.5°	2041.6	2081.2	2061.2	2051.8	2087.4
15°	2032.8	2075.8	2043.0	2023.2	2053.3
17.5°	2001.1	2047.8	2002.8	1964.1	1989.3
20°	1968.2	2018.4	1965.2	1915.9	1938.8
22.5°	1927.1	1971.6	1913.6	1861.9	1886.0
25°	1846.4	1880.8	1824.3	1776.5	1802.3
27.5°	1744.5	1763.4	1721.3	1675.3	1692.0
30°	1660.0	1674.3	1643.8	1600.0	1608.6
32.5°	1569.6	1579.3	1554.6	1516.6	1524.1
35°	1422.2	1417.9	1401.6	1372.2	1367.9
37.5°	1229.6	1222.2	1211.7	1097.8	787.3
40°	1081.7	1084.6	1074.4	671.4	507.8
42.5°	925.5	943.3	928.8	457.2	166.1
45°	617.9	702.6	704.5	46.6	32.3
47.5°	334.0	426.2	346.7	28.9	23.5
50°	214.3	267.4	171.7	21.9	17.6
52.5°	153.2	178.8	67.2	17.2	12.9
55°	93.9	101.1	27.9	10.2	5.9
57.5°	56.1	66.7	17.6	3.8	1.5
60°	39.6	46.8	11.7	1.5	1.5
62.5°	34.9	35.2	8.2	1.5	1.5
65°	30.8	26.5	1.5	1.5	1.5
67.5°	27.0	19.3	1.5	1.5	1.5
70°	23.5	13.4	1.5	1.5	1.5
72.5°	21.1	8.8	1.5	1.5	1.5
75°	17.6	3.3	1.5	1.5	1.5
77.5°	14.1	1.7	1.5	1.2	1.2
80°	11.7	1.7	1.5	0.0	0.0
82.5°	9.4	1.6	0.3	0.0	0.0
85°	5.9	0.1	0.0	0.0	0.0
87.5°	2.3	0.8	1.6	2.4	2.4
90°	0.0	3.9	7.9	11.8	11.8
92.5°	9.5	13.3	17.3	24.5	27.6
95°	31.5	58.5	31.5	35.6	43.3
97.5°	55.9	112.1	231.5	68.3	59.1
100°	74.8	140.3	464.7	136.8	90.6
102.5°	93.7	162.3	628.5	360.9	197.7
105°	122.1	187.5	712.8	910.5	602.5
107.5°	150.4	199.7	680.5	1325.2	1241.2
110°	169.3	215.5	661.6	1392.4	1496.4



TEST NUMBER: P622048

CATALOG NUMBER: VLT-WB-M-100U-075D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.2	234.4	642.7	1353.1	1527.9
115°	216.6	262.8	614.3	1276.8	1492.5
117.5°	245.7	291.2	607.2	1194.3	1416.1
120°	267.8	310.1	594.6	1131.5	1362.5
122.5°	283.5	329.0	578.9	1077.5	1290.0
125°	311.1	353.4	578.9	1012.3	1197.1
127.5°	333.9	377.1	579.7	936.6	1119.1
130°	346.5	392.7	582.8	886.0	1059.3
132.5°	362.3	408.5	582.8	863.3	1005.7
135°	385.9	428.3	582.8	833.7	956.9
137.5°	405.6	451.0	582.8	801.0	906.5
140°	421.4	463.7	582.8	781.9	878.1
142.5°	437.1	476.4	586.0	759.7	849.8
145°	456.8	495.3	586.7	726.3	803.3
147.5°	480.4	514.3	591.5	702.3	761.6
150°	496.2	527.0	594.6	686.3	736.4
152.5°	511.9	539.6	594.6	673.5	714.3
155°	535.6	554.8	598.6	658.3	689.1
157.5°	554.5	572.9	603.3	648.7	671.0
160°	567.1	582.5	606.4	642.3	661.6
162.5°	576.5	591.9	609.6	639.0	652.1
165°	594.6	602.3	614.3	630.3	641.9
167.5°	604.9	611.8	618.2	626.3	633.2
170°	614.3	618.2	618.2	626.2	630.1
172.5°	617.5	624.4	621.4	623.1	626.9
175°	626.1	630.0	626.1	622.1	618.2
177.5°	626.1	629.2	626.1	626.1	623.0
180°	626.1	626.1	626.1	626.1	626.1



TEST NUMBER: P622048

CATALOG NUMBER: VLT-WB-M-100U-075D-930-UNV-STD-W-4

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	0.95	1.62	1.97	2.63	3.97	0.00	0.00	0.00	0.00	0.00
	3H	1.38	1.98	2.42	3.00	4.36	0.00	0.00	0.00	0.00	0.00
	4H	1.54	2.10	2.59	3.13	4.49	0.00	0.00	0.00	0.00	0.00
	6H	1.72	2.24	2.78	3.27	4.64	0.00	0.00	0.00	0.00	0.00
	8H	1.81	2.29	2.87	3.33	4.71	0.00	0.00	0.00	0.00	0.00
	12H	1.87	2.34	2.93	3.37	4.76	0.00	0.00	0.00	0.00	0.00
4H	2H	0.64	1.20	1.70	2.23	3.59	0.00	0.00	0.00	0.00	0.00
	3H	1.11	1.58	2.17	2.63	4.01	0.00	0.00	0.00	0.00	0.00
	4H	1.29	1.71	2.35	2.75	4.16	0.00	0.00	0.00	0.00	0.00
	6H	1.52	1.88	2.59	2.94	4.34	0.00	0.00	0.00	0.00	0.00
	8H	1.64	1.97	2.71	3.03	4.44	0.00	0.00	0.00	0.00	0.00
	12H	1.74	2.05	2.83	3.12	4.53	0.00	0.00	0.00	0.00	0.00
8H	4H	1.12	1.45	2.19	2.51	3.92	0.00	0.00	0.00	0.00	0.00
	6H	1.35	1.62	2.44	2.72	4.13	0.00	0.00	0.00	0.00	0.00
	8H	1.49	1.73	2.59	2.81	4.24	0.00	0.00	0.00	0.00	0.00
	12H	1.62	1.83	2.72	2.91	4.38	0.00	0.00	0.00	0.00	0.00
12H	4H	1.04	1.35	2.13	2.42	3.83	0.00	0.00	0.00	0.00	0.00
	6H	1.29	1.53	2.39	2.61	4.04	0.00	0.00	0.00	0.00	0.00
	8H	1.42	1.63	2.52	2.71	4.18	0.00	0.00	0.00	0.00	0.00

END OF REPORT