

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: P622012

Luminaire Tested: VLT-WB-M-050U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622012
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-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

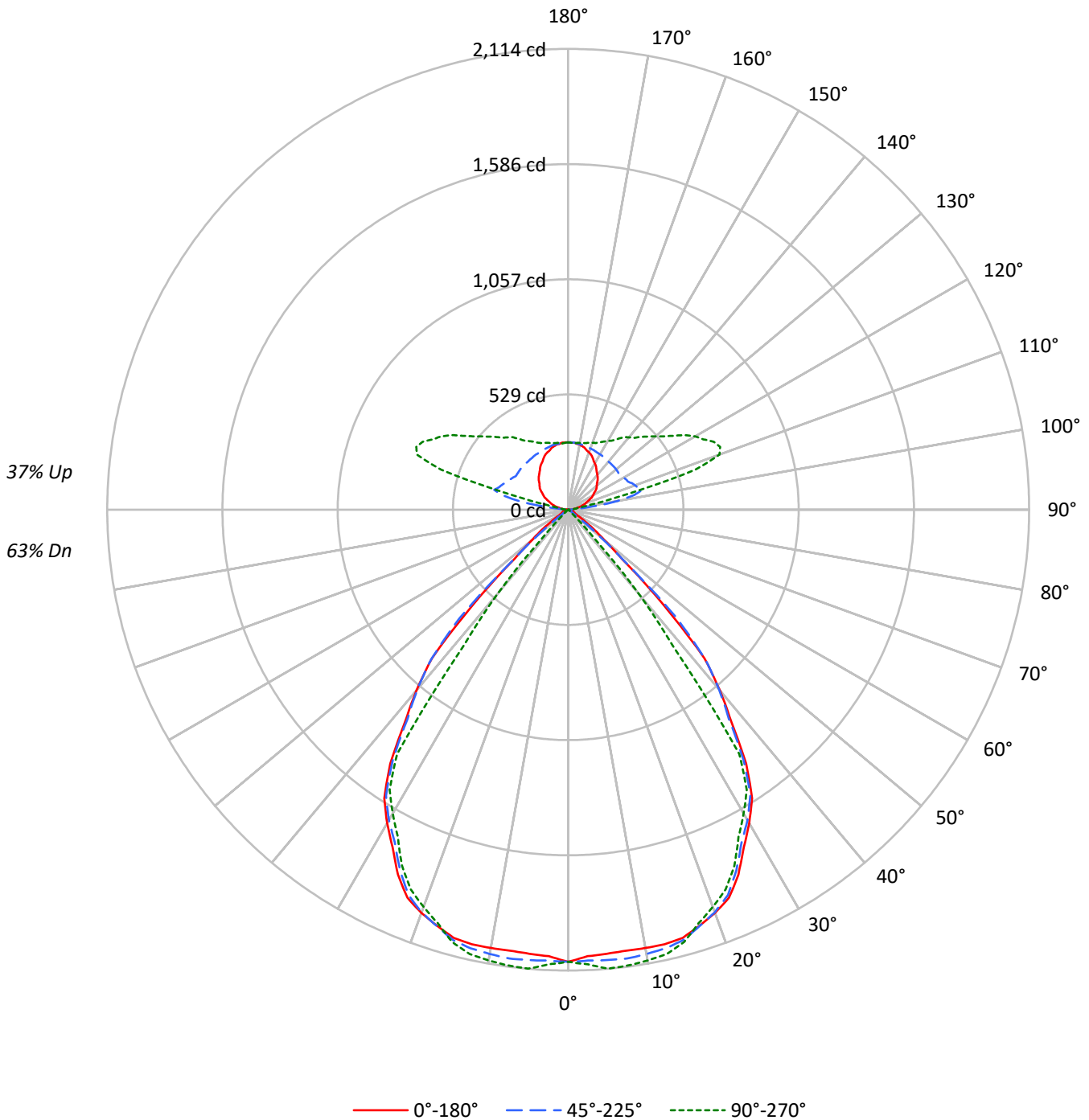
Lumens per Lamp: N/A
Luminaire Lumens: 4537.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 44.1
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: P622012
CATALOG NUMBER: VLT-WB-M-050U-075D-930-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P622012

CATALOG NUMBER: VLT-WB-M-050U-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	0
RCR																				
0	110	110	110	110	104	104	104	104	91	91	91		79	79	79		68	68	68	63
1	103	100	97	94	97	94	92	89	83	82	80		74	72	71		64	64	63	59
2	96	91	86	82	91	86	81	78	76	73	71		68	66	64		60	59	57	54
3	90	82	76	72	85	78	73	69	70	66	63		63	60	58		56	54	52	49
4	84	75	68	63	79	71	66	61	64	60	57		58	55	52		52	50	48	45
5	78	69	62	57	74	65	59	55	59	55	51		54	50	47		49	46	44	41
6	73	63	56	51	69	60	54	49	55	50	46		50	46	43		45	42	40	38
7	68	58	51	46	65	55	49	45	51	46	42		46	42	39		42	39	37	35
8	64	53	47	42	61	51	45	41	47	42	38		43	39	36		40	36	34	32
9	60	49	43	38	57	48	41	37	44	39	35		40	36	33		37	34	31	30
10	57	46	39	35	54	44	38	34	41	36	33		38	34	31		35	31	29	27

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: P622012

CATALOG NUMBER: VLT-WB-M-050U-075D-930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	4.4
10°-20°	574.5	12.7
20°-30°	835.4	18.4
30°-40°	831.3	18.3
40°-50°	365.6	8.1
50°-60°	54.0	1.2
60°-70°	12.3	0.3
70°-80°	4.6	0.1
80°-90°	1.7	0.0
90°-100°	38.0	0.8
100°-110°	270.7	6.0
110°-120°	367.5	8.1
120°-130°	299.1	6.6
130°-140°	240.5	5.3
140°-150°	189.6	4.2
150°-160°	138.7	3.1
160°-170°	86.1	1.9
170°-180°	29.4	0.6
0°-30°	1608.0	35.4
0°-40°	2439.3	53.8
0°-60°	2858.8	63.0
0°-90°	2877.5	63.4
90°-120°	676.1	14.9
90°-150°	1405.3	31.0
90°-180°	1659.0	36.6
0°-180°	4537.0	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	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	



TEST NUMBER: P622012

CATALOG NUMBER: VLT-WB-M-050U-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	0.4	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



TEST NUMBER: P622012

CATALOG NUMBER: VLT-WB-M-050U-075D-930-UNV-STD-W-4

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



TEST NUMBER: P622012

CATALOG NUMBER: VLT-WB-M-050U-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	2.58	3.33	3.46	4.20	5.28	0.00	0.00	0.00	0.00	0.00
	3H	3.02	3.69	3.91	4.56	5.67	0.00	0.00	0.00	0.00	0.00
	4H	3.18	3.81	4.08	4.69	5.81	0.00	0.00	0.00	0.00	0.00
	6H	3.36	3.94	4.28	4.83	5.96	0.00	0.00	0.00	0.00	0.00
	8H	3.45	3.99	4.37	4.89	6.02	0.00	0.00	0.00	0.00	0.00
	12H	3.52	4.03	4.44	4.93	6.08	0.00	0.00	0.00	0.00	0.00
4H	2H	2.28	2.91	3.19	3.79	4.91	0.00	0.00	0.00	0.00	0.00
	3H	2.76	3.27	3.67	4.18	5.32	0.00	0.00	0.00	0.00	0.00
	4H	2.93	3.40	3.85	4.31	5.47	0.00	0.00	0.00	0.00	0.00
	6H	3.16	3.56	4.10	4.49	5.66	0.00	0.00	0.00	0.00	0.00
	8H	3.28	3.65	4.22	4.58	5.75	0.00	0.00	0.00	0.00	0.00
	12H	3.39	3.72	4.34	4.66	5.84	0.00	0.00	0.00	0.00	0.00
8H	4H	2.76	3.13	3.70	4.06	5.23	0.00	0.00	0.00	0.00	0.00
	6H	2.99	3.29	3.95	4.26	5.43	0.00	0.00	0.00	0.00	0.00
	8H	3.13	3.39	4.10	4.35	5.54	0.00	0.00	0.00	0.00	0.00
	12H	3.26	3.50	4.23	4.45	5.69	0.00	0.00	0.00	0.00	0.00
12H	4H	2.69	3.02	3.64	3.96	5.14	0.00	0.00	0.00	0.00	0.00
	6H	2.93	3.20	3.90	4.16	5.35	0.00	0.00	0.00	0.00	0.00
	8H	3.06	3.29	4.03	4.24	5.49	0.00	0.00	0.00	0.00	0.00