

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: P622025

Luminaire Tested: VLT-WB-M-075U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622025
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-075U-075D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

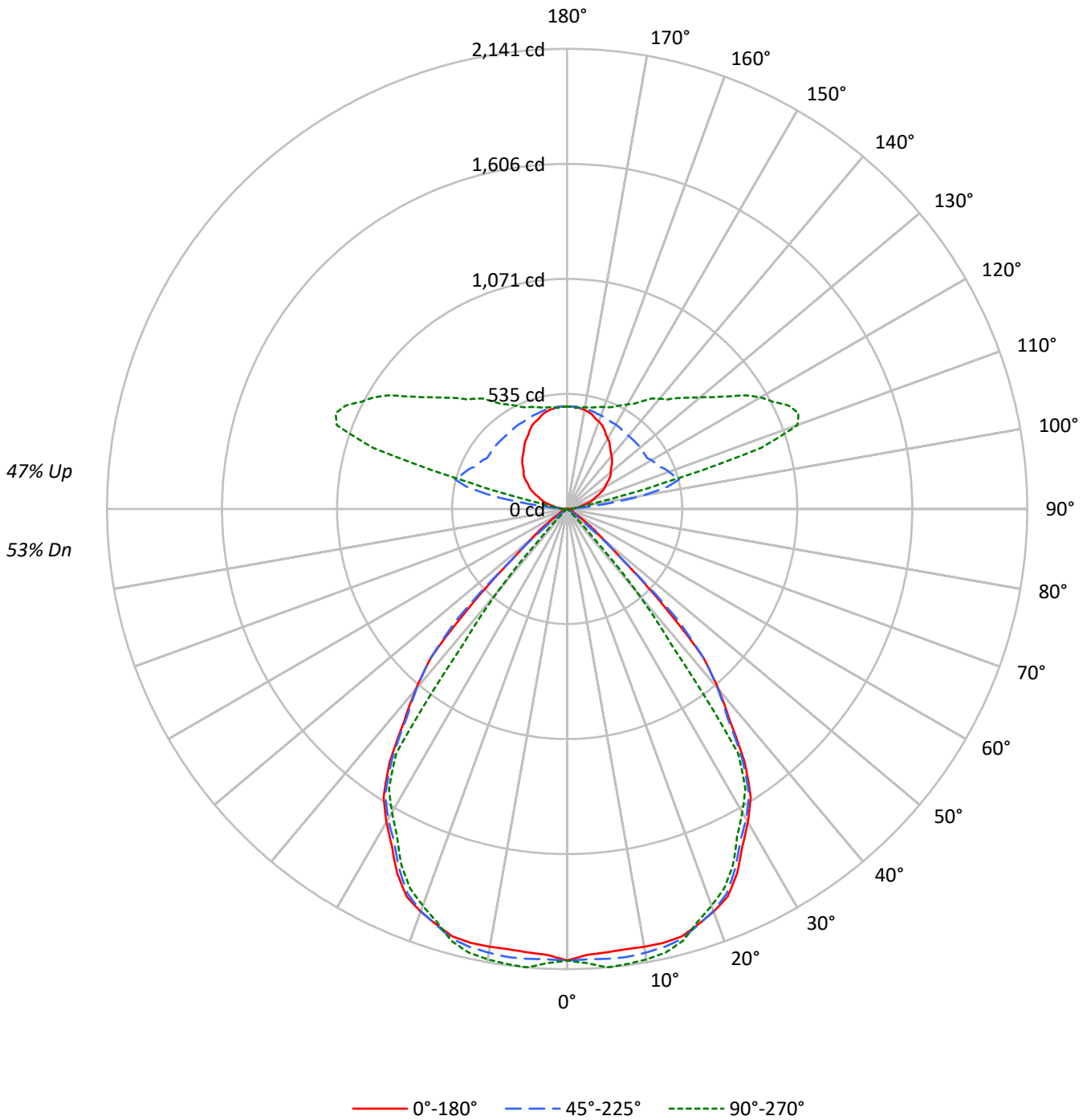
Lumens per Lamp: N/A
Luminaire Lumens: 5479.7 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.7
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: P622025
CATALOG NUMBER: VLT-WB-M-075U-075D-935-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P622025

CATALOG NUMBER: VLT-WB-M-075U-075D-935-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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53				
1	101	97	94	91	93	90	88	85	78	76	74	66	65	64	55	55	54	49				
2	94	88	83	78	87	82	78	74	71	68	65	61	59	57	52	50	49	45				
3	87	79	73	68	81	74	69	65	65	61	58	56	53	51	48	46	45	41				
4	81	72	65	60	75	68	62	57	59	55	52	52	49	46	45	43	41	38				
5	75	65	59	53	70	62	56	51	55	50	46	48	44	42	42	39	37	34				
6	70	60	53	48	66	56	50	46	50	45	42	44	41	38	39	36	34	32				
7	66	55	48	43	61	52	46	41	46	41	38	41	37	35	36	33	31	29				
8	61	50	44	39	57	48	42	37	43	38	35	38	34	32	34	31	29	27				
9	58	47	40	35	54	44	38	34	40	35	32	36	32	29	32	29	27	25				
10	54	43	37	32	51	41	35	31	37	32	29	33	30	27	30	27	25	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15074	15074	15074
5°	14917	15131	15420
10°	15068	15274	15501
15°	15296	15374	15451
20°	15223	15201	14997
25°	14808	14631	14455
30°	13932	13796	13500
35°	12619	12437	12137
40°	10263	10194	4819
45°	6352	7242	332
50°	2423	1941	199
55°	1190	353	74
60°	576	171	22
65°	530	25	25
70°	499	31	31
75°	494	42	42
80°	492	62	0
85°	486	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 7242 cd/sqm



TEST NUMBER: P622025

CATALOG NUMBER: VLT-WB-M-075U-075D-935-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	3.7
10°-20°	581.9	10.6
20°-30°	846.1	15.4
30°-40°	842.0	15.4
40°-50°	370.3	6.8
50°-60°	54.6	1.0
60°-70°	12.5	0.2
70°-80°	4.7	0.1
80°-90°	2.1	0.0
90°-100°	58.7	1.1
100°-110°	418.3	7.6
110°-120°	567.9	10.4
120°-130°	462.2	8.4
130°-140°	371.7	6.8
140°-150°	293.1	5.3
150°-160°	214.3	3.9
160°-170°	133.1	2.4
170°-180°	45.4	0.8
0°-30°	1628.7	29.7
0°-40°	2470.7	45.1
0°-60°	2895.6	52.8
0°-90°	2914.9	53.2
90°-120°	1044.9	19.1
90°-150°	2171.9	39.6
90°-180°	2565.0	46.8
0°-180°	5479.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2101	2101	2101	2101	2101	
5°	2071	2107	2101	2106	2141	198
15°	2059	2103	2069	2049	2080	579
25°	1870	1905	1848	1799	1826	855
35°	1440	1436	1420	1390	1386	882
45°	626	712	714	47	33	485
55°	95	102	28	10	6	96
65°	31	27	2	2	2	31
75°	18	3	2	2	2	19
85°	6	0	0	0	0	6
90°	0	3	6	9	9	1
95°	24	45	24	27	33	27
105°	93	143	544	694	459	98
115°	165	200	468	974	1138	164
125°	237	270	441	772	913	211
135°	294	327	444	636	730	226
145°	348	378	447	554	613	219
155°	408	423	456	502	526	187
165°	453	459	468	481	490	127
175°	478	480	478	474	471	45
180°	478	478	478	478	478	



TEST NUMBER: P622025

CATALOG NUMBER: VLT-WB-M-075U-075D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2100.6	2100.6	2100.6	2100.6	2100.6
2.5°	2076.8	2108.2	2097.0	2096.2	2114.9
5°	2070.8	2107.2	2100.6	2105.8	2140.7
7.5°	2066.7	2103.3	2103.3	2100.8	2135.7
10°	2067.9	2105.7	2096.1	2092.5	2127.3
12.5°	2067.9	2108.0	2087.8	2078.2	2114.3
15°	2059.0	2102.6	2069.4	2049.2	2079.8
17.5°	2026.8	2074.2	2028.6	1989.4	2015.0
20°	1993.5	2044.4	1990.6	1940.6	1963.8
22.5°	1951.9	1997.0	1938.2	1885.9	1910.3
25°	1870.2	1905.0	1847.9	1799.4	1825.6
27.5°	1767.0	1786.2	1743.5	1696.9	1713.8
30°	1681.4	1695.9	1665.0	1620.6	1629.3
32.5°	1589.8	1599.7	1574.6	1536.1	1543.7
35°	1440.5	1436.2	1419.7	1389.9	1385.5
37.5°	1245.5	1237.9	1227.3	1112.0	797.4
40°	1095.6	1098.5	1088.2	680.1	514.4
42.5°	937.5	955.5	940.7	463.1	168.3
45°	625.9	711.6	713.6	47.2	32.7
47.5°	338.4	431.7	351.1	29.3	23.8
50°	217.0	270.8	173.9	22.2	17.8
52.5°	155.2	181.1	68.1	17.4	13.1
55°	95.1	102.4	28.2	10.3	5.9
57.5°	56.8	67.5	17.8	3.8	1.5
60°	40.1	47.4	11.9	1.5	1.5
62.5°	35.4	35.7	8.3	1.5	1.5
65°	31.2	26.9	1.5	1.5	1.5
67.5°	27.4	19.5	1.5	1.5	1.5
70°	23.8	13.6	1.5	1.5	1.5
72.5°	21.4	8.9	1.5	1.5	1.5
75°	17.8	3.3	1.5	1.5	1.5
77.5°	14.3	1.8	1.5	1.2	1.2
80°	11.9	1.7	1.5	0.0	0.0
82.5°	9.5	1.7	0.3	0.0	0.0
85°	5.9	0.1	0.0	0.0	0.0
87.5°	2.4	0.6	1.2	1.8	1.8
90°	0.0	2.9	6.0	9.0	9.0
92.5°	7.2	10.1	13.2	18.7	21.0
95°	24.0	44.6	24.0	27.2	33.0
97.5°	42.6	85.5	176.6	52.1	45.0
100°	57.1	107.0	354.3	104.3	69.1
102.5°	71.5	123.7	479.3	275.2	150.7
105°	93.1	143.0	543.5	694.3	459.4
107.5°	114.7	152.3	518.9	1010.5	946.5
110°	129.1	164.4	504.5	1061.8	1141.1

TEST NUMBER: P622025

CATALOG NUMBER: VLT-WB-M-075U-075D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	143.5	178.8	490.1	1031.8	1165.1
115°	165.2	200.4	468.4	973.7	1138.1
117.5°	187.4	222.0	463.0	910.7	1079.8
120°	204.2	236.5	453.4	862.8	1039.0
122.5°	216.2	250.9	441.4	821.7	983.7
125°	237.2	269.5	441.4	771.9	912.9
127.5°	254.6	287.5	442.0	714.2	853.4
130°	264.3	299.5	444.4	675.6	807.8
132.5°	276.3	311.5	444.4	658.3	766.9
135°	294.3	326.6	444.4	635.7	729.7
137.5°	309.3	343.9	444.4	610.8	691.3
140°	321.3	353.6	444.4	596.2	669.6
142.5°	333.3	363.3	446.8	579.3	648.0
145°	348.3	377.7	447.4	553.9	612.6
147.5°	366.3	392.2	451.0	535.5	580.8
150°	378.4	401.8	453.4	523.4	561.5
152.5°	390.4	411.5	453.4	513.6	544.7
155°	408.4	423.1	456.4	502.0	525.5
157.5°	422.8	436.9	460.0	494.7	511.7
160°	432.4	444.2	462.4	489.8	504.5
162.5°	439.6	451.4	464.8	487.3	497.3
165°	453.4	459.3	468.4	480.7	489.5
167.5°	461.2	466.5	471.4	477.6	482.9
170°	468.4	471.4	471.4	477.5	480.5
172.5°	470.8	476.1	473.8	475.1	478.1
175°	477.5	480.4	477.5	474.4	471.4
177.5°	477.5	479.8	477.5	477.4	475.1
180°	477.5	477.5	477.5	477.5	477.5



TEST NUMBER: P622025

CATALOG NUMBER: VLT-WB-M-075U-075D-935-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	1.69	2.40	2.66	3.35	4.59	0.00	0.00	0.00	0.00	0.00
	3H	2.13	2.75	3.11	3.72	4.98	0.00	0.00	0.00	0.00	0.00
	4H	2.29	2.88	3.28	3.84	5.12	0.00	0.00	0.00	0.00	0.00
	6H	2.47	3.01	3.47	3.99	5.27	0.00	0.00	0.00	0.00	0.00
	8H	2.56	3.06	3.56	4.05	5.33	0.00	0.00	0.00	0.00	0.00
	12H	2.62	3.10	3.63	4.09	5.39	0.00	0.00	0.00	0.00	0.00
4H	2H	1.39	1.98	2.39	2.94	4.22	0.00	0.00	0.00	0.00	0.00
	3H	1.87	2.35	2.87	3.35	4.63	0.00	0.00	0.00	0.00	0.00
	4H	2.04	2.48	3.05	3.47	4.78	0.00	0.00	0.00	0.00	0.00
	6H	2.27	2.64	3.29	3.66	4.97	0.00	0.00	0.00	0.00	0.00
	8H	2.39	2.74	3.41	3.74	5.06	0.00	0.00	0.00	0.00	0.00
	12H	2.49	2.80	3.53	3.83	5.15	0.00	0.00	0.00	0.00	0.00
8H	4H	1.87	2.22	2.89	3.22	4.54	0.00	0.00	0.00	0.00	0.00
	6H	2.10	2.38	3.14	3.43	4.75	0.00	0.00	0.00	0.00	0.00
	8H	2.23	2.48	3.29	3.52	4.86	0.00	0.00	0.00	0.00	0.00
	12H	2.37	2.59	3.42	3.61	5.00	0.00	0.00	0.00	0.00	0.00
12H	4H	1.79	2.11	2.83	3.13	4.45	0.00	0.00	0.00	0.00	0.00
	6H	2.04	2.29	3.09	3.33	4.66	0.00	0.00	0.00	0.00	0.00
	8H	2.17	2.39	3.22	3.42	4.80	0.00	0.00	0.00	0.00	0.00