

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: P622073

Luminaire Tested: VLT-WB-M-150U-075D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622073
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-150U-075D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

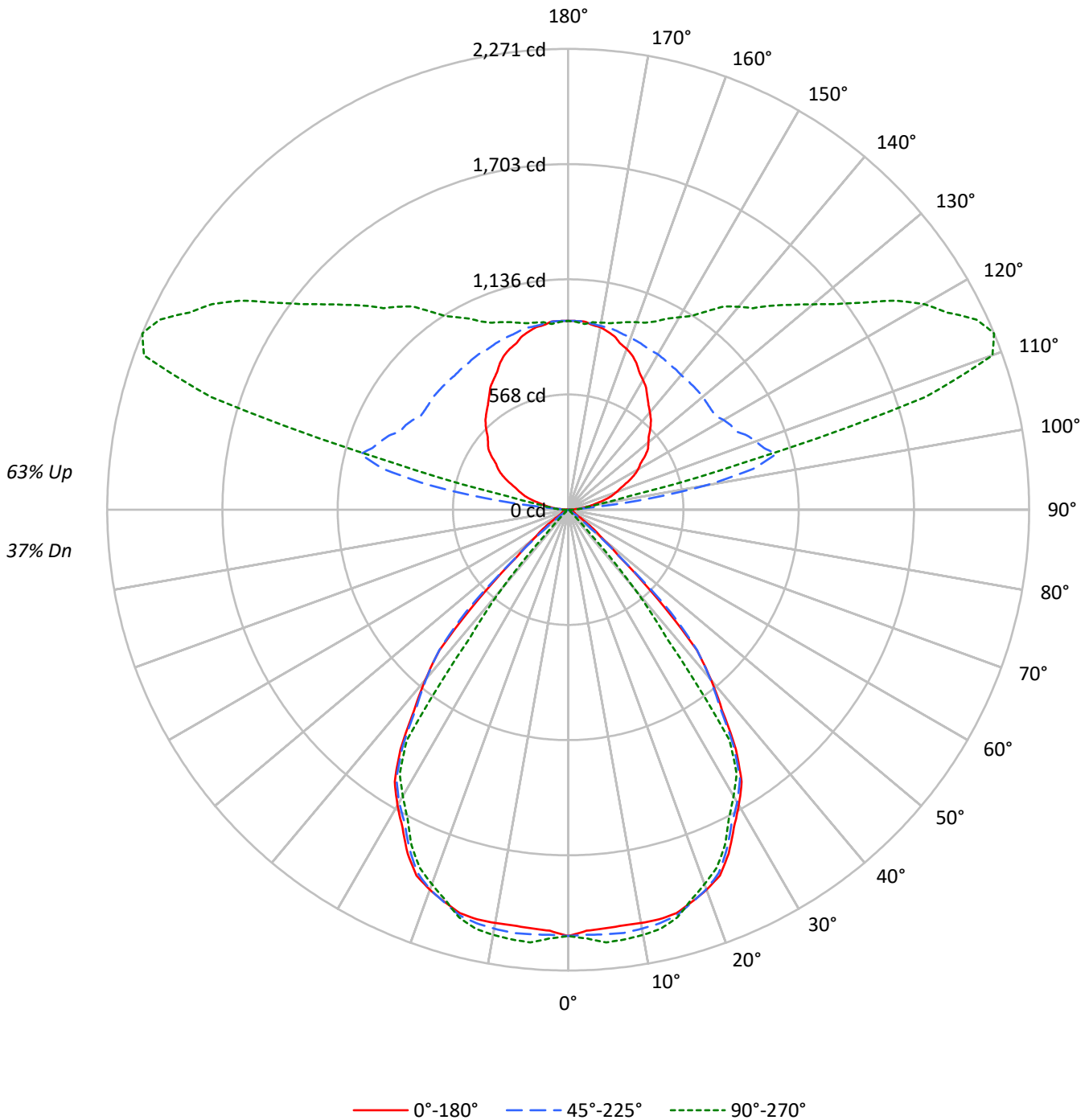
Lumens per Lamp: N/A
Luminaire Lumens: 7915.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.3
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	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	41	40	34
2	89	83	78	73	81	76	71	68	62	59	57	50	48	46	38	37	36	31
3	82	74	68	63	75	68	63	59	56	53	50	46	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	71	60	53	48	64	56	50	45	47	42	39	38	35	33	31	29	27	24
6	65	55	48	43	60	51	45	40	43	38	35	35	32	30	28	26	25	22
7	61	50	43	38	56	46	40	36	39	35	31	33	29	27	26	24	23	20
8	57	46	39	34	52	42	36	32	36	32	28	30	27	25	25	22	21	19
9	53	42	35	31	49	39	33	29	33	29	26	28	25	23	23	21	19	17
10	50	39	32	28	46	36	30	26	31	27	24	26	23	21	22	19	18	16

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	2.5
10°-20°	581.9	7.4
20°-30°	846.1	10.7
30°-40°	842.0	10.6
40°-50°	370.3	4.7
50°-60°	54.6	0.7
60°-70°	12.5	0.2
70°-80°	4.7	0.1
80°-90°	3.2	0.0
90°-100°	114.4	1.4
100°-110°	815.3	10.3
110°-120°	1106.9	14.0
120°-130°	900.9	11.4
130°-140°	724.6	9.2
140°-150°	571.2	7.2
150°-160°	417.7	5.3
160°-170°	259.4	3.3
170°-180°	88.5	1.1
0°-30°	1628.7	20.6
0°-40°	2470.7	31.2
0°-60°	2895.6	36.6
0°-90°	2915.9	36.8
90°-120°	2036.7	25.7
90°-150°	4233.4	53.5
90°-180°	4999.0	63.2
0°-180°	7915.0	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	6	12	18	18	2
95°	47	87	47	53	64	52
105°	181	279	1059	1353	896	191
115°	322	391	913	1898	2218	320
125°	462	525	860	1505	1779	411
135°	574	636	866	1239	1422	441
145°	679	736	872	1080	1194	426
155°	796	825	890	978	1024	365
165°	884	895	913	937	954	248
175°	931	936	931	925	919	88
180°	931	931	931	931	931	



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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	1.2	2.3	3.5	3.5
90°	0.0	5.7	11.7	17.6	17.6
92.5°	14.0	19.8	25.8	36.4	41.0
95°	46.8	86.9	46.8	52.9	64.4
97.5°	83.1	166.7	344.2	101.5	87.8
100°	111.2	208.5	690.6	203.3	134.6
102.5°	139.3	241.2	934.1	536.5	293.8
105°	181.4	278.7	1059.4	1353.3	895.5
107.5°	223.6	296.8	1011.4	1969.6	1844.8
110°	251.7	320.4	983.3	2069.6	2224.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.8	348.4	955.2	2011.1	2270.9
115°	321.9	390.6	913.1	1897.8	2218.3
117.5°	365.2	432.8	902.5	1775.1	2104.7
120°	398.0	461.0	883.8	1681.7	2025.1
122.5°	421.4	488.9	860.4	1601.5	1917.4
125°	462.4	525.3	860.4	1504.6	1779.3
127.5°	496.3	560.4	861.6	1392.1	1663.4
130°	515.1	583.7	866.2	1316.9	1574.4
132.5°	538.5	607.1	866.2	1283.1	1494.8
135°	573.6	636.5	866.2	1239.1	1422.3
137.5°	602.9	670.4	866.2	1190.5	1347.3
140°	626.3	689.2	866.2	1162.1	1305.2
142.5°	649.7	708.0	870.9	1129.1	1263.1
145°	678.9	736.2	872.1	1079.5	1194.0
147.5°	714.1	764.4	879.1	1043.8	1132.0
150°	737.5	783.3	883.8	1020.1	1094.5
152.5°	760.9	802.1	883.8	1001.1	1061.7
155°	796.0	824.6	889.6	978.5	1024.3
157.5°	824.1	851.6	896.7	964.1	997.3
160°	842.8	865.7	901.4	954.7	983.3
162.5°	856.9	879.8	906.0	949.8	969.2
165°	883.8	895.2	913.1	936.9	954.0
167.5°	899.0	909.3	918.9	930.9	941.2
170°	913.1	918.8	918.9	930.7	936.5
172.5°	917.7	928.0	923.6	926.1	931.8
175°	930.6	936.3	930.6	924.6	918.9
177.5°	930.6	935.2	930.6	930.5	925.9
180°	930.6	930.6	930.6	930.6	930.6



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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	0.60	1.05	1.67	3.13	0.00	0.00	0.00	0.00	0.00
	3H	0.39	0.96	1.50	2.04	3.52	0.00	0.00	0.00	0.00	0.00
	4H	0.55	1.09	1.66	2.17	3.65	0.00	0.00	0.00	0.00	0.00
	6H	0.73	1.22	1.85	2.31	3.80	0.00	0.00	0.00	0.00	0.00
	8H	0.81	1.28	1.94	2.38	3.87	0.00	0.00	0.00	0.00	0.00
	12H	0.88	1.32	2.00	2.41	3.92	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.19	0.77	1.27	2.75	0.00	0.00	0.00	0.00	0.00
	3H	0.12	0.57	1.24	1.68	3.17	0.00	0.00	0.00	0.00	0.00
	4H	0.30	0.70	1.42	1.80	3.32	0.00	0.00	0.00	0.00	0.00
	6H	0.53	0.87	1.66	1.99	3.50	0.00	0.00	0.00	0.00	0.00
	8H	0.64	0.97	1.77	2.08	3.60	0.00	0.00	0.00	0.00	0.00
	12H	0.75	1.04	1.89	2.16	3.69	0.00	0.00	0.00	0.00	0.00
8H	4H	0.12	0.45	1.25	1.56	3.08	0.00	0.00	0.00	0.00	0.00
	6H	0.36	0.62	1.51	1.78	3.30	0.00	0.00	0.00	0.00	0.00
	8H	0.50	0.73	1.65	1.86	3.40	0.00	0.00	0.00	0.00	0.00
	12H	0.63	0.83	1.78	1.96	3.54	0.00	0.00	0.00	0.00	0.00
12H	4H	0.05	0.34	1.19	1.47	2.99	0.00	0.00	0.00	0.00	0.00
	6H	0.30	0.53	1.46	1.67	3.21	0.00	0.00	0.00	0.00	0.00
	8H	0.43	0.63	1.58	1.76	3.34	0.00	0.00	0.00	0.00	0.00