

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: P622076

Luminaire Tested: VLT-WB-M-150U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622076
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-100D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1000 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: 8882.4 lumens
Efficiency: N/A
Efficacy: 93.8 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

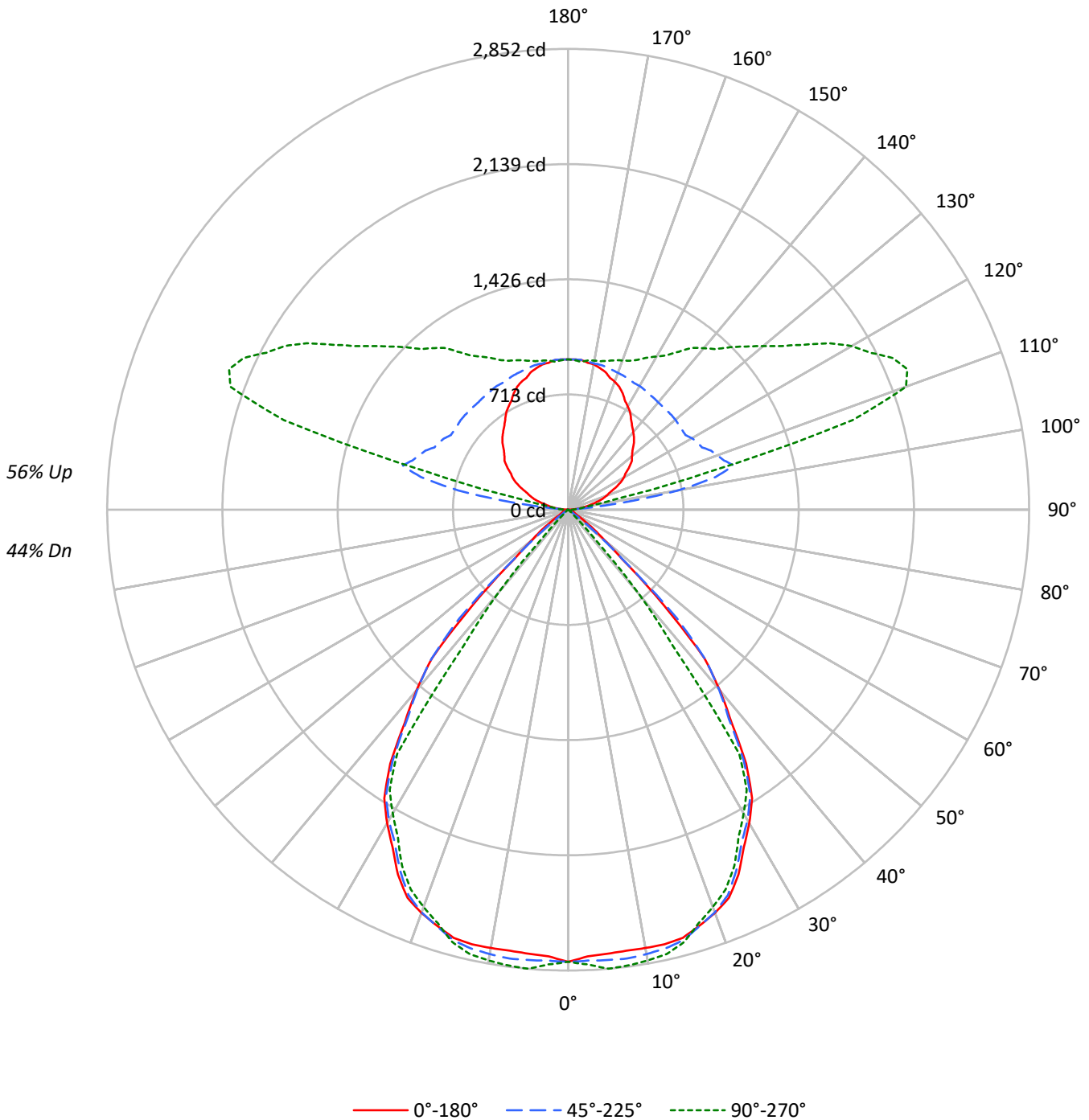
Input Watts (W): 94.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P622076

CATALOG NUMBER: VLT-WB-M-150U-100D-935-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P622076

CATALOG NUMBER: VLT-WB-M-150U-100D-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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44				44
1	98	95	91	88	90	87	84	82	73	71	69	59	58	57	47	47	46				40	
2	91	85	80	75	83	78	74	70	66	63	60	54	52	51	44	43	42				37	
3	84	76	70	65	77	71	65	61	60	56	53	50	47	45	41	39	38				34	
4	78	69	62	57	72	64	58	54	55	50	47	46	43	41	38	36	34				31	
5	73	63	56	50	67	58	52	48	50	45	42	42	39	37	35	33	31				28	
6	67	57	50	45	62	53	47	42	46	41	38	39	36	33	33	30	29				26	
7	63	52	45	40	58	49	43	38	42	38	34	36	33	30	30	28	26				24	
8	59	48	41	36	54	45	39	34	39	34	31	34	30	28	28	26	24				22	
9	55	44	37	33	51	41	35	31	36	32	28	31	28	25	27	24	22				20	
10	52	41	34	30	48	38	32	29	34	29	26	29	26	23	25	23	21				19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20078	20078	20078
5°	19870	20155	20540
10°	20070	20345	20647
15°	20375	20478	20581
20°	20278	20248	19976
25°	19724	19489	19254
30°	18557	18377	17983
35°	16809	16566	16167
40°	13671	13578	6418
45°	8461	9646	442
50°	3227	2587	266
55°	1585	470	99
60°	768	227	29
65°	706	34	34
70°	665	42	42
75°	660	55	55
80°	653	83	0
85°	650	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9646 cd/sqm



TEST NUMBER: P622076

CATALOG NUMBER: VLT-WB-M-150U-100D-935-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	3.0
10°-20°	775.2	8.7
20°-30°	1127.1	12.7
30°-40°	1121.6	12.6
40°-50°	493.2	5.6
50°-60°	72.8	0.8
60°-70°	16.6	0.2
70°-80°	6.2	0.1
80°-90°	3.5	0.0
90°-100°	114.4	1.3
100°-110°	815.3	9.2
110°-120°	1106.9	12.5
120°-130°	900.9	10.1
130°-140°	724.6	8.2
140°-150°	571.2	6.4
150°-160°	417.7	4.7
160°-170°	259.4	2.9
170°-180°	88.5	1.0
0°-30°	2169.4	24.4
0°-40°	3291.0	37.1
0°-60°	3857.1	43.4
0°-90°	3883.4	43.7
90°-120°	2036.7	22.9
90°-150°	4233.4	47.7
90°-180°	4999.0	56.3
0°-180°	8882.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2798	2798	2798	2798	2798	
5°	2758	2807	2798	2805	2852	263
15°	2743	2801	2756	2730	2770	771
25°	2491	2538	2461	2397	2432	1139
35°	1919	1913	1891	1851	1846	1175
45°	834	948	950	63	44	646
55°	127	136	38	14	8	128
65°	42	36	2	2	2	41
75°	24	4	2	2	2	25
85°	8	0	0	0	0	8
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	



TEST NUMBER: P622076

CATALOG NUMBER: VLT-WB-M-150U-100D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2798.0	2798.0	2798.0	2798.0	2798.0
2.5°	2766.3	2808.1	2793.2	2792.2	2817.0
5°	2758.4	2806.8	2798.0	2805.0	2851.5
7.5°	2752.9	2801.6	2801.6	2798.3	2844.7
10°	2754.4	2804.8	2792.1	2787.2	2833.6
12.5°	2754.4	2807.9	2781.0	2768.2	2816.2
15°	2742.6	2800.6	2756.4	2729.6	2770.3
17.5°	2699.8	2762.9	2702.2	2649.9	2683.9
20°	2655.4	2723.2	2651.5	2584.8	2615.8
22.5°	2600.0	2660.0	2581.8	2512.0	2544.5
25°	2491.1	2537.5	2461.4	2396.8	2431.7
27.5°	2353.6	2379.2	2322.4	2260.3	2282.8
30°	2239.6	2259.0	2217.8	2158.7	2170.3
32.5°	2117.6	2130.8	2097.4	2046.2	2056.2
35°	1918.8	1913.0	1891.1	1851.3	1845.5
37.5°	1659.0	1648.9	1634.8	1481.2	1062.2
40°	1459.4	1463.3	1449.5	905.9	685.1
42.5°	1248.7	1272.7	1253.1	616.8	224.2
45°	833.7	947.9	950.5	62.9	43.6
47.5°	450.7	575.0	467.7	39.0	31.7
50°	289.1	360.7	231.7	29.6	23.8
52.5°	206.7	241.2	90.7	23.2	17.4
55°	126.7	136.4	37.6	13.7	7.9
57.5°	75.6	90.0	23.8	5.1	2.0
60°	53.5	63.1	15.8	2.0	2.0
62.5°	47.1	47.5	11.1	2.0	2.0
65°	41.6	35.8	2.0	2.0	2.0
67.5°	36.4	26.0	2.0	2.0	2.0
70°	31.7	18.1	2.0	2.0	2.0
72.5°	28.5	11.9	2.0	2.0	2.0
75°	23.8	4.4	2.0	2.0	2.0
77.5°	19.0	2.4	2.0	1.6	1.6
80°	15.8	2.3	2.0	0.0	0.0
82.5°	12.7	2.2	0.4	0.0	0.0
85°	7.9	0.2	0.0	0.0	0.0
87.5°	3.2	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



TEST NUMBER: P622076

CATALOG NUMBER: VLT-WB-M-150U-100D-935-UNV-STD-W-4

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



TEST NUMBER: P622076

CATALOG NUMBER: VLT-WB-M-150U-100D-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	1.73	2.40	2.78	3.42	4.80	0.00	0.00	0.00	0.00	0.00
	3H	2.17	2.76	3.23	3.80	5.19	0.00	0.00	0.00	0.00	0.00
	4H	2.33	2.89	3.40	3.92	5.32	0.00	0.00	0.00	0.00	0.00
	6H	2.51	3.02	3.58	4.06	5.47	0.00	0.00	0.00	0.00	0.00
	8H	2.59	3.08	3.67	4.13	5.54	0.00	0.00	0.00	0.00	0.00
	12H	2.66	3.12	3.74	4.17	5.59	0.00	0.00	0.00	0.00	0.00
4H	2H	1.43	1.98	2.50	3.02	4.42	0.00	0.00	0.00	0.00	0.00
	3H	1.90	2.36	2.98	3.43	4.84	0.00	0.00	0.00	0.00	0.00
	4H	2.08	2.50	3.16	3.55	4.99	0.00	0.00	0.00	0.00	0.00
	6H	2.31	2.66	3.39	3.74	5.17	0.00	0.00	0.00	0.00	0.00
	8H	2.43	2.76	3.51	3.83	5.27	0.00	0.00	0.00	0.00	0.00
	12H	2.53	2.83	3.63	3.92	5.36	0.00	0.00	0.00	0.00	0.00
8H	4H	1.90	2.24	2.99	3.31	4.75	0.00	0.00	0.00	0.00	0.00
	6H	2.14	2.41	3.24	3.52	4.96	0.00	0.00	0.00	0.00	0.00
	8H	2.28	2.51	3.39	3.61	5.07	0.00	0.00	0.00	0.00	0.00
	12H	2.41	2.62	3.52	3.71	5.21	0.00	0.00	0.00	0.00	0.00
12H	4H	1.83	2.13	2.93	3.22	4.66	0.00	0.00	0.00	0.00	0.00
	6H	2.08	2.32	3.19	3.41	4.87	0.00	0.00	0.00	0.00	0.00
	8H	2.21	2.42	3.32	3.51	5.01	0.00	0.00	0.00	0.00	0.00