

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: P622077

Luminaire Tested: VLT-WB-M-150U-100D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622077
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-940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

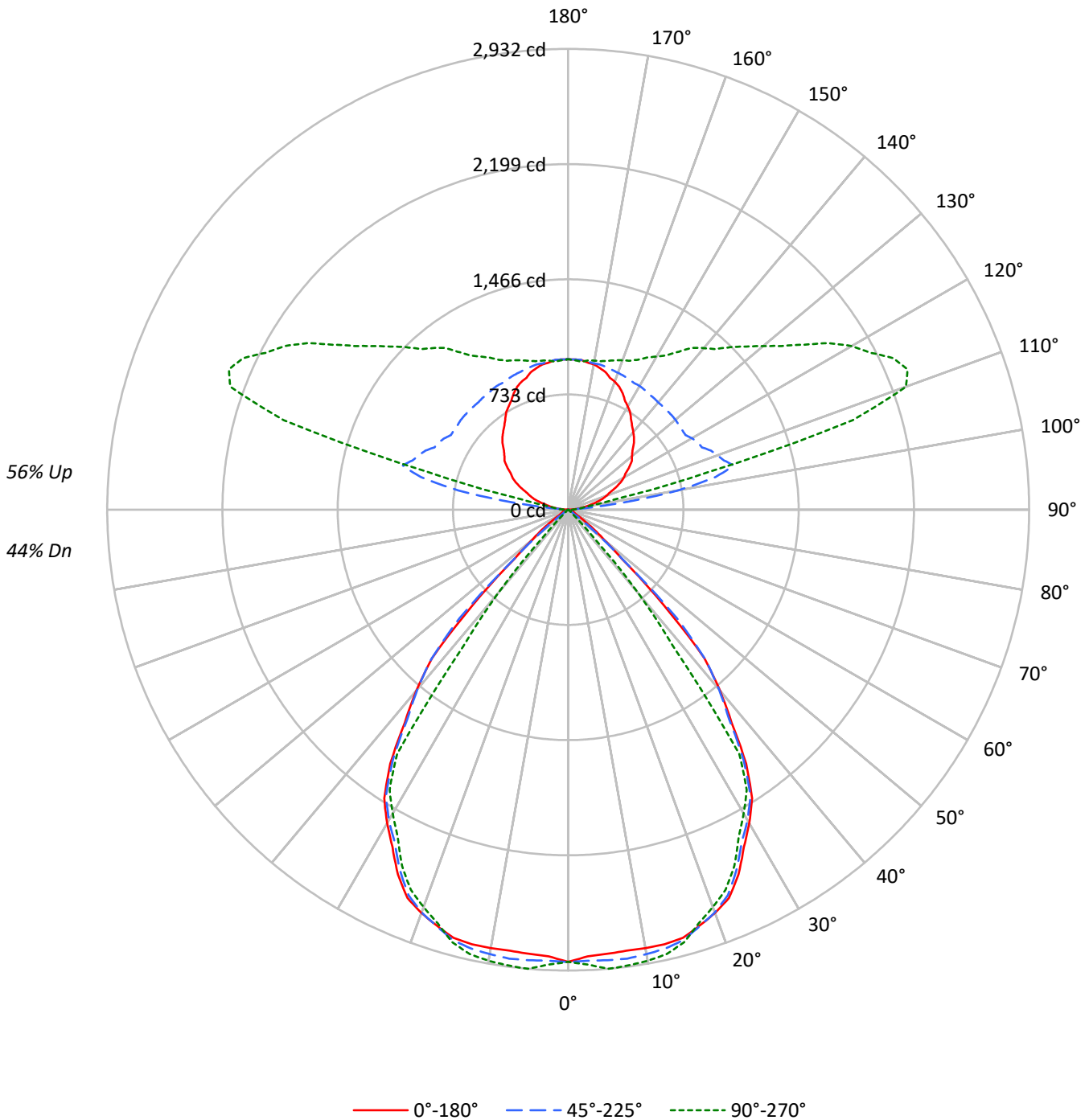
Lumens per Lamp: N/A
Luminaire Lumens: 9133.2 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 94.7
Input Voltage (V): 120
Input Current (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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	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°	20645	20645	20645
5°	20431	20724	21120
10°	20637	20919	21231
15°	20950	21056	21162
20°	20851	20819	20540
25°	20281	20039	19797
30°	19081	18896	18491
35°	17284	17034	16623
40°	14057	13961	6599
45°	8699	9918	455
50°	3319	2659	272
55°	1630	484	101
60°	789	234	29
65°	727	34	34
70°	684	42	42
75°	677	55	55
80°	674	83	0
85°	667	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9918 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	3.0
10°-20°	797.0	8.7
20°-30°	1158.9	12.7
30°-40°	1153.3	12.6
40°-50°	507.1	5.6
50°-60°	74.9	0.8
60°-70°	17.1	0.2
70°-80°	6.3	0.1
80°-90°	3.6	0.0
90°-100°	117.7	1.3
100°-110°	838.3	9.2
110°-120°	1138.2	12.5
120°-130°	926.4	10.1
130°-140°	745.1	8.2
140°-150°	587.4	6.4
150°-160°	429.5	4.7
160°-170°	266.8	2.9
170°-180°	91.0	1.0
0°-30°	2230.7	24.4
0°-40°	3383.9	37.1
0°-60°	3965.9	43.4
0°-90°	3993.0	43.7
90°-120°	2094.2	22.9
90°-150°	4353.0	47.7
90°-180°	5140.0	56.3
0°-180°	9133.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2877	2877	2877	2877	2877	
5°	2836	2886	2877	2884	2932	271
15°	2820	2880	2834	2807	2848	793
25°	2561	2609	2531	2464	2500	1171
35°	1973	1967	1944	1904	1898	1208
45°	857	975	977	65	45	664
55°	130	140	39	14	8	132
65°	43	37	2	2	2	43
75°	24	4	2	2	2	26
85°	8	0	0	0	0	8
90°	0	6	12	18	18	2
95°	48	89	48	54	66	54
105°	187	287	1089	1392	921	197
115°	331	402	939	1951	2281	329
125°	475	540	885	1547	1830	422
135°	590	654	891	1274	1462	454
145°	698	757	897	1110	1228	438
155°	818	848	915	1006	1053	376
165°	909	920	939	963	981	255
175°	957	963	957	951	945	90
180°	957	957	957	957	957	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2877.0	2877.0	2877.0	2877.0	2877.0
2.5°	2844.4	2887.4	2872.1	2871.1	2896.6
5°	2836.3	2886.1	2877.0	2884.2	2932.0
7.5°	2830.6	2880.8	2880.7	2877.3	2925.1
10°	2832.2	2884.0	2870.9	2865.9	2913.7
12.5°	2832.2	2887.2	2859.5	2846.4	2895.7
15°	2820.0	2879.7	2834.3	2806.7	2848.5
17.5°	2776.0	2840.9	2778.5	2724.7	2759.7
20°	2730.4	2800.1	2726.3	2657.8	2689.7
22.5°	2673.4	2735.1	2654.7	2582.9	2616.4
25°	2561.4	2609.2	2530.9	2464.5	2500.3
27.5°	2420.1	2446.4	2387.9	2324.1	2347.2
30°	2302.8	2322.7	2280.4	2219.6	2231.6
32.5°	2177.4	2190.9	2156.6	2103.9	2114.3
35°	1973.0	1967.0	1944.5	1903.6	1897.6
37.5°	1705.8	1695.5	1681.0	1523.0	1092.2
40°	1500.6	1504.6	1490.4	931.4	704.5
42.5°	1284.0	1308.7	1288.4	634.2	230.5
45°	857.2	974.7	977.3	64.7	44.8
47.5°	463.4	591.2	480.9	40.1	32.6
50°	297.3	370.9	238.2	30.4	24.4
52.5°	212.6	248.0	93.3	23.9	17.9
55°	130.3	140.3	38.7	14.1	8.1
57.5°	77.8	92.5	24.4	5.2	2.0
60°	55.0	64.9	16.3	2.0	2.0
62.5°	48.5	48.9	11.4	2.0	2.0
65°	42.8	36.8	2.0	2.0	2.0
67.5°	37.5	26.7	2.0	2.0	2.0
70°	32.6	18.6	2.0	2.0	2.0
72.5°	29.3	12.2	2.0	2.0	2.0
75°	24.4	4.5	2.0	2.0	2.0
77.5°	19.5	2.4	2.0	1.6	1.6
80°	16.3	2.4	2.0	0.0	0.0
82.5°	13.0	2.3	0.4	0.0	0.0
85°	8.1	0.2	0.0	0.0	0.0
87.5°	3.3	1.2	2.4	3.6	3.6
90°	0.0	5.9	12.0	18.1	18.1
92.5°	14.4	20.3	26.5	37.4	42.1
95°	48.1	89.3	48.1	54.4	66.2
97.5°	85.5	171.4	353.9	104.4	90.3
100°	114.3	214.4	710.2	209.0	138.4
102.5°	143.2	248.0	960.5	551.6	302.1
105°	186.6	286.6	1089.3	1391.5	920.8
107.5°	229.9	305.2	1039.9	2025.2	1896.9
110°	258.8	329.4	1011.1	2128.0	2286.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.7	358.3	982.2	2067.9	2335.1
115°	331.0	401.6	938.8	1951.4	2280.9
117.5°	375.5	445.0	928.0	1825.2	2164.2
120°	409.2	474.0	908.8	1729.2	2082.3
122.5°	433.3	502.7	884.7	1646.7	1971.6
125°	475.4	540.2	884.7	1547.1	1829.5
127.5°	510.3	576.3	885.9	1431.5	1710.4
130°	529.6	600.2	890.7	1354.1	1618.9
132.5°	553.7	624.3	890.7	1319.3	1537.1
135°	589.8	654.5	890.7	1274.1	1462.4
137.5°	619.9	689.3	890.7	1224.2	1385.4
140°	643.9	708.7	890.7	1195.0	1342.1
142.5°	668.0	728.0	895.5	1161.0	1298.7
145°	698.1	757.0	896.7	1110.0	1227.7
147.5°	734.2	786.0	903.9	1073.3	1163.9
150°	758.3	805.4	908.8	1048.9	1125.4
152.5°	782.4	824.7	908.8	1029.3	1091.7
155°	818.5	847.9	914.8	1006.1	1053.2
157.5°	847.4	875.6	922.0	991.4	1025.5
160°	866.6	890.2	926.8	981.6	1011.1
162.5°	881.1	904.6	931.6	976.6	996.6
165°	908.8	920.5	938.8	963.3	981.0
167.5°	924.4	935.0	944.9	957.1	967.7
170°	938.8	944.7	944.9	957.0	962.9
172.5°	943.7	954.2	949.7	952.2	958.1
175°	956.9	962.8	956.9	950.7	944.9
177.5°	956.9	961.6	956.9	956.8	952.1
180°	956.9	956.9	956.9	956.9	956.9



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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	1.83	2.50	2.88	3.52	4.89	0.00	0.00	0.00	0.00	0.00
	3H	2.27	2.86	3.32	3.89	5.29	0.00	0.00	0.00	0.00	0.00
	4H	2.43	2.98	3.49	4.02	5.42	0.00	0.00	0.00	0.00	0.00
	6H	2.61	3.12	3.68	4.16	5.57	0.00	0.00	0.00	0.00	0.00
	8H	2.69	3.18	3.77	4.23	5.64	0.00	0.00	0.00	0.00	0.00
	12H	2.76	3.22	3.84	4.26	5.69	0.00	0.00	0.00	0.00	0.00
4H	2H	1.53	2.08	2.60	3.12	4.52	0.00	0.00	0.00	0.00	0.00
	3H	2.00	2.46	3.08	3.53	4.93	0.00	0.00	0.00	0.00	0.00
	4H	2.17	2.59	3.25	3.65	5.08	0.00	0.00	0.00	0.00	0.00
	6H	2.40	2.76	3.49	3.84	5.27	0.00	0.00	0.00	0.00	0.00
	8H	2.52	2.86	3.61	3.93	5.37	0.00	0.00	0.00	0.00	0.00
	12H	2.63	2.93	3.73	4.01	5.46	0.00	0.00	0.00	0.00	0.00
8H	4H	2.00	2.33	3.09	3.41	4.85	0.00	0.00	0.00	0.00	0.00
	6H	2.23	2.51	3.34	3.62	5.06	0.00	0.00	0.00	0.00	0.00
	8H	2.37	2.61	3.49	3.71	5.17	0.00	0.00	0.00	0.00	0.00
	12H	2.51	2.72	3.62	3.81	5.30	0.00	0.00	0.00	0.00	0.00
12H	4H	1.93	2.23	3.03	3.31	4.76	0.00	0.00	0.00	0.00	0.00
	6H	2.18	2.42	3.29	3.51	4.97	0.00	0.00	0.00	0.00	0.00
	8H	2.31	2.51	3.42	3.61	5.10	0.00	0.00	0.00	0.00	0.00