

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: P622065

Luminaire Tested: VLT-WB-M-125U-100D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622065
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-125U-100D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

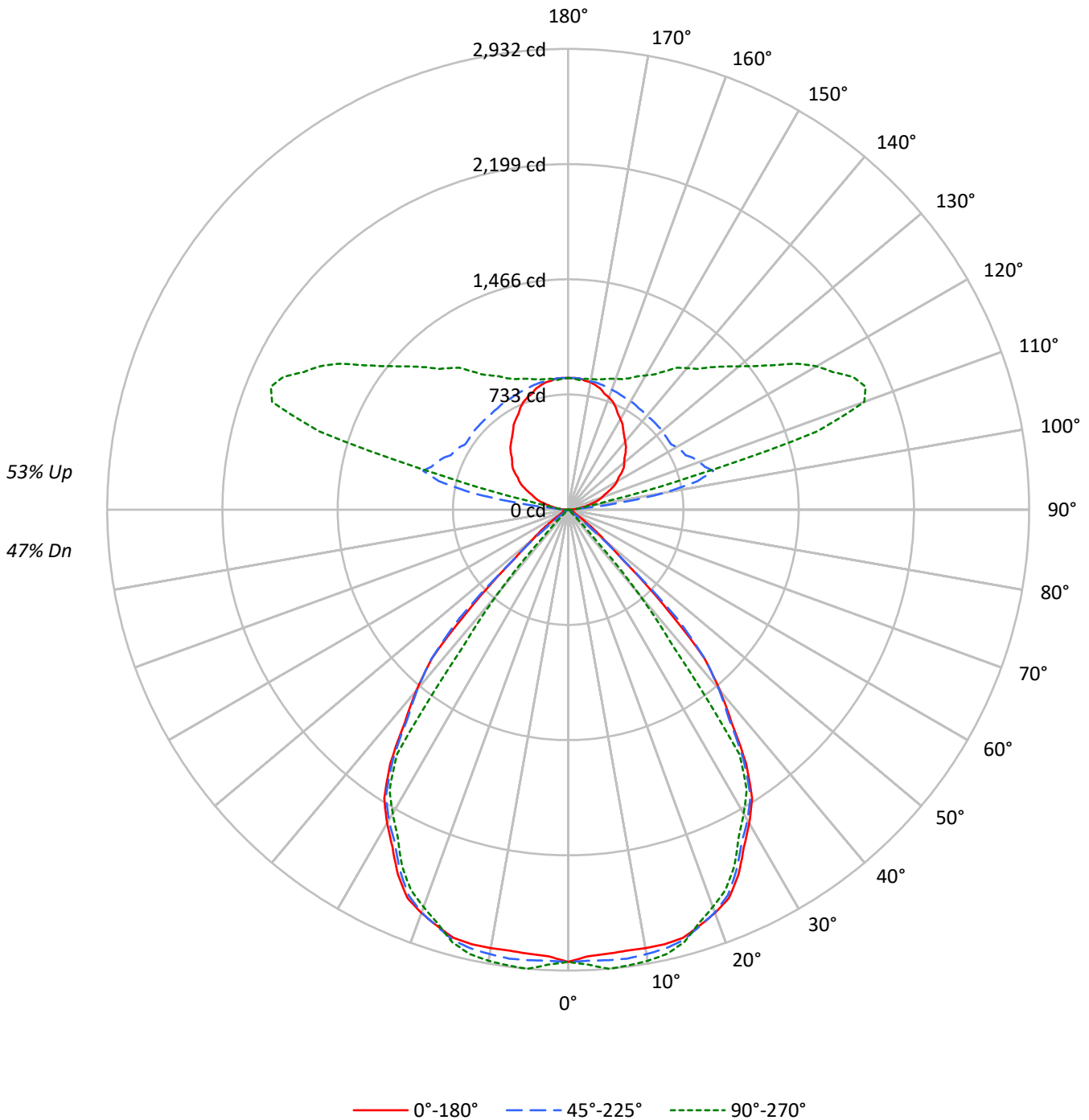
Lumens per Lamp: N/A
Luminaire Lumens: 8498.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.1
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



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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	98	98	98	98	82	82	82	67	67	67	53	53	53	47				47
1	99	95	92	89	91	88	85	83	74	73	71	62	61	59	50	49	49	43				43
2	92	86	81	76	85	79	75	72	68	65	62	57	55	53	47	45	44	40				40
3	85	77	71	66	79	72	67	62	62	58	55	52	50	47	43	42	40	36				36
4	79	70	63	58	73	65	59	55	56	52	49	48	45	43	40	38	37	33				33
5	73	64	57	51	68	59	53	49	52	47	44	44	41	38	37	35	33	30				30
6	68	58	51	46	63	54	48	44	47	43	39	41	37	35	35	32	31	28				28
7	64	53	46	41	59	50	44	39	44	39	35	38	34	32	32	30	28	26				26
8	60	49	42	37	55	46	40	35	40	36	32	35	32	29	30	28	26	24				24
9	56	45	38	34	52	42	36	32	37	33	29	33	29	27	28	26	24	22				22
10	52	42	35	31	49	39	33	29	35	30	27	31	27	25	27	24	22	20				20

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	3.2
10°-20°	797.0	9.4
20°-30°	1158.9	13.6
30°-40°	1153.3	13.6
40°-50°	507.1	6.0
50°-60°	74.9	0.9
60°-70°	17.1	0.2
70°-80°	6.3	0.1
80°-90°	3.4	0.0
90°-100°	103.1	1.2
100°-110°	734.8	8.6
110°-120°	997.6	11.7
120°-130°	811.9	9.6
130°-140°	653.0	7.7
140°-150°	514.8	6.1
150°-160°	376.4	4.4
160°-170°	233.8	2.8
170°-180°	79.7	0.9
0°-30°	2230.7	26.2
0°-40°	3383.9	39.8
0°-60°	3965.9	46.7
0°-90°	3992.7	47.0
90°-120°	1835.5	21.6
90°-150°	3815.3	44.9
90°-180°	4505.0	53.0
0°-180°	8498.0	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	5	10	16	16	2
95°	42	78	42	48	58	47
105°	164	251	955	1220	807	172
115°	290	352	823	1710	1999	288
125°	417	473	775	1356	1604	370
135°	517	574	781	1117	1282	398
145°	612	664	786	973	1076	384
155°	717	743	802	882	923	329
165°	796	807	823	844	860	224
175°	839	844	839	833	828	79
180°	839	839	839	839	839	



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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	1.1	2.1	3.2	3.2
90°	0.0	5.2	10.5	15.8	15.8
92.5°	12.7	17.8	23.2	32.8	36.9
95°	42.2	78.3	42.2	47.7	58.0
97.5°	74.9	150.2	310.2	91.5	79.1
100°	100.2	187.9	622.4	183.2	121.3
102.5°	125.5	217.3	841.9	483.5	264.8
105°	163.5	251.2	954.8	1219.7	807.1
107.5°	201.5	267.5	911.5	1775.1	1662.6
110°	226.8	288.7	886.2	1865.2	2004.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	252.1	314.0	860.9	1812.5	2046.7
115°	290.1	352.0	822.9	1710.4	1999.2
117.5°	329.2	390.0	813.4	1599.8	1896.8
120°	358.7	415.4	796.5	1515.6	1825.1
122.5°	379.8	440.7	775.4	1443.3	1728.1
125°	416.7	473.4	775.4	1356.0	1603.6
127.5°	447.3	505.1	776.5	1254.6	1499.1
130°	464.2	526.1	780.7	1186.8	1418.9
132.5°	485.3	547.2	780.7	1156.4	1347.2
135°	516.9	573.7	780.7	1116.8	1281.8
137.5°	543.3	604.2	780.7	1073.0	1214.3
140°	564.4	621.1	780.7	1047.4	1176.3
142.5°	585.5	638.1	784.9	1017.6	1138.3
145°	611.9	663.5	786.0	972.9	1076.1
147.5°	643.5	688.9	792.3	940.7	1020.2
150°	664.6	705.9	796.5	919.4	986.4
152.5°	685.7	722.9	796.5	902.2	956.9
155°	717.4	743.2	801.8	881.8	923.1
157.5°	742.7	767.5	808.1	868.9	898.8
160°	759.6	780.2	812.3	860.4	886.2
162.5°	772.2	792.9	816.6	856.0	873.5
165°	796.5	806.8	822.9	844.3	859.8
167.5°	810.2	819.5	828.2	838.9	848.2
170°	822.9	828.0	828.2	838.8	844.0
172.5°	827.1	836.4	832.4	834.6	839.8
175°	838.7	843.9	838.7	833.3	828.2
177.5°	838.7	842.8	838.7	838.6	834.5
180°	838.7	838.7	838.7	838.7	838.7



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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	2.17	2.85	3.20	3.85	5.18	0.00	0.00	0.00	0.00	0.00
	3H	2.61	3.21	3.64	4.22	5.57	0.00	0.00	0.00	0.00	0.00
	4H	2.77	3.34	3.81	4.35	5.71	0.00	0.00	0.00	0.00	0.00
	6H	2.95	3.47	4.00	4.49	5.86	0.00	0.00	0.00	0.00	0.00
	8H	3.04	3.53	4.09	4.56	5.92	0.00	0.00	0.00	0.00	0.00
	12H	3.10	3.57	4.16	4.59	5.98	0.00	0.00	0.00	0.00	0.00
4H	2H	1.87	2.44	2.92	3.45	4.81	0.00	0.00	0.00	0.00	0.00
	3H	2.34	2.81	3.40	3.85	5.22	0.00	0.00	0.00	0.00	0.00
	4H	2.52	2.94	3.57	3.98	5.37	0.00	0.00	0.00	0.00	0.00
	6H	2.75	3.11	3.81	4.17	5.56	0.00	0.00	0.00	0.00	0.00
	8H	2.87	3.21	3.93	4.26	5.66	0.00	0.00	0.00	0.00	0.00
	12H	2.97	3.28	4.05	4.34	5.75	0.00	0.00	0.00	0.00	0.00
8H	4H	2.34	2.68	3.41	3.73	5.13	0.00	0.00	0.00	0.00	0.00
	6H	2.58	2.85	3.66	3.95	5.35	0.00	0.00	0.00	0.00	0.00
	8H	2.72	2.96	3.81	4.04	5.45	0.00	0.00	0.00	0.00	0.00
	12H	2.85	3.06	3.94	4.13	5.59	0.00	0.00	0.00	0.00	0.00
12H	4H	2.27	2.58	3.35	3.64	5.04	0.00	0.00	0.00	0.00	0.00
	6H	2.52	2.76	3.61	3.84	5.26	0.00	0.00	0.00	0.00	0.00
	8H	2.65	2.86	3.74	3.93	5.39	0.00	0.00	0.00	0.00	0.00