

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: P622066

Luminaire Tested: VLT-WB-M-125U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622066
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-125D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

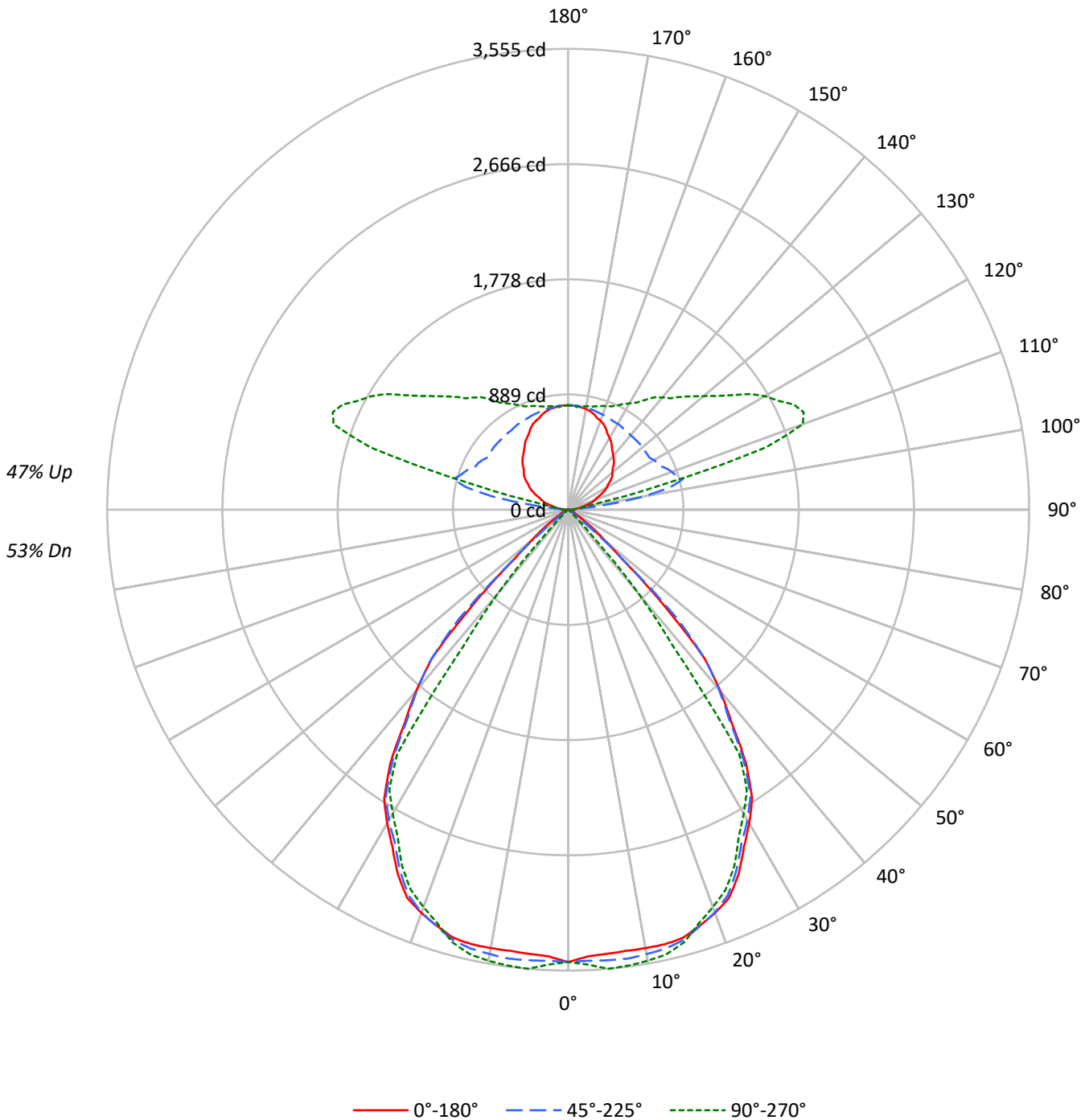
Lumens per Lamp: N/A
Luminaire Lumens: 9167.1 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 93.2
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53				
1	100	97	94	91	93	90	88	85	78	76	74	66	65	64	55	54	54	49				
2	93	87	82	78	87	82	77	74	71	68	65	61	59	57	51	50	49	45				
3	87	79	73	68	81	74	69	65	65	61	58	56	53	51	48	46	44	41				
4	81	72	65	60	75	67	62	57	59	55	51	52	48	46	44	42	41	37				
5	75	65	58	53	70	62	55	51	54	50	46	48	44	42	41	39	37	34				
6	70	60	53	48	65	56	50	46	50	45	42	44	40	38	39	36	34	31				
7	65	55	48	43	61	52	46	41	46	41	38	41	37	34	36	33	31	29				
8	61	50	44	39	57	48	42	37	43	38	34	38	34	32	34	31	29	27				
9	57	47	40	35	54	44	38	34	40	35	32	35	32	29	31	29	27	25				
10	54	43	37	32	51	41	35	31	37	32	29	33	29	27	29	27	25	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25035	25035	25035
5°	24774	25130	25611
10°	25025	25367	25744
15°	25404	25532	25661
20°	25284	25246	24906
25°	24593	24300	24006
30°	23138	22913	22422
35°	20959	20656	20158
40°	17045	16930	8003
45°	10548	12027	551
50°	4025	3225	330
55°	1977	587	124
60°	957	284	36
65°	880	42	42
70°	829	52	52
75°	821	69	69
80°	818	103	0
85°	815	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12027 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.2	3.6
10°-20°	966.5	10.5
20°-30°	1405.3	15.3
30°-40°	1398.5	15.3
40°-50°	615.0	6.7
50°-60°	90.8	1.0
60°-70°	20.7	0.2
70°-80°	7.7	0.1
80°-90°	3.6	0.0
90°-100°	99.0	1.1
100°-110°	705.5	7.7
110°-120°	957.8	10.4
120°-130°	779.6	8.5
130°-140°	627.0	6.8
140°-150°	494.3	5.4
150°-160°	361.4	3.9
160°-170°	224.5	2.4
170°-180°	76.6	0.8
0°-30°	2705.0	29.5
0°-40°	4103.4	44.8
0°-60°	4809.2	52.5
0°-90°	4841.2	52.8
90°-120°	1762.4	19.2
90°-150°	3663.3	40.0
90°-180°	4326.0	47.2
0°-180°	9167.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3489	3489	3489	3489	3489	
5°	3439	3500	3489	3497	3555	328
15°	3420	3492	3437	3403	3454	961
25°	3106	3164	3069	2988	3032	1420
35°	2392	2385	2358	2308	2301	1465
45°	1039	1182	1185	78	54	805
55°	158	170	47	17	10	160
65°	52	45	2	2	2	52
75°	30	6	2	2	2	31
85°	10	0	0	0	0	10
90°	0	5	10	15	15	2
95°	40	75	40	46	56	45
105°	157	241	917	1171	775	166
115°	279	338	790	1642	1920	277
125°	400	455	744	1302	1540	356
135°	496	551	750	1072	1231	382
145°	588	637	755	934	1033	369
155°	689	714	770	847	886	316
165°	765	775	790	811	826	215
175°	805	810	805	800	795	76
180°	805	805	805	805	805	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3488.7	3488.7	3488.7	3488.7	3488.7
2.5°	3449.2	3501.3	3482.8	3481.5	3512.4
5°	3439.3	3499.7	3488.7	3497.4	3555.4
7.5°	3432.4	3493.2	3493.1	3489.0	3547.0
10°	3434.4	3497.1	3481.3	3475.2	3533.1
12.5°	3434.4	3501.0	3467.5	3451.5	3511.4
15°	3419.6	3492.0	3436.8	3403.4	3454.1
17.5°	3366.2	3444.9	3369.2	3304.0	3346.5
20°	3310.9	3395.4	3306.0	3222.9	3261.5
22.5°	3241.8	3316.6	3219.1	3132.1	3172.7
25°	3106.0	3163.9	3069.0	2988.5	3031.9
27.5°	2934.6	2966.5	2895.6	2818.3	2846.3
30°	2792.4	2816.6	2765.3	2691.5	2706.0
32.5°	2640.3	2656.8	2615.2	2551.3	2563.8
35°	2392.5	2385.2	2357.9	2308.3	2301.1
37.5°	2068.5	2056.0	2038.4	1846.8	1324.4
40°	1819.6	1824.5	1807.3	1129.5	854.3
42.5°	1556.9	1586.9	1562.4	769.1	279.5
45°	1039.4	1181.9	1185.1	78.5	54.3
47.5°	561.9	716.9	583.2	48.7	39.5
50°	360.5	449.8	288.9	36.9	29.6
52.5°	257.8	300.7	113.1	29.0	21.7
55°	158.0	170.1	46.9	17.1	9.9
57.5°	94.3	112.2	29.6	6.3	2.5
60°	66.7	78.7	19.8	2.5	2.5
62.5°	58.8	59.2	13.8	2.5	2.5
65°	51.8	44.6	2.5	2.5	2.5
67.5°	45.4	32.4	2.5	2.5	2.5
70°	39.5	22.6	2.5	2.5	2.5
72.5°	35.6	14.8	2.5	2.5	2.5
75°	29.6	5.5	2.5	2.5	2.5
77.5°	23.7	2.9	2.5	2.0	2.0
80°	19.8	2.9	2.5	0.0	0.0
82.5°	15.8	2.8	0.5	0.0	0.0
85°	9.9	0.2	0.0	0.0	0.0
87.5°	4.0	1.1	2.0	3.0	3.0
90°	0.0	5.0	10.1	15.2	15.2
92.5°	12.2	17.1	22.3	31.5	35.5
95°	40.5	75.2	40.5	45.8	55.7
97.5°	71.9	144.2	297.8	87.9	76.0
100°	96.2	180.4	597.6	175.9	116.5
102.5°	120.5	208.7	808.3	464.2	254.2
105°	157.0	241.2	916.7	1171.1	774.9
107.5°	193.5	256.9	875.2	1704.4	1596.4
110°	217.8	277.2	850.9	1790.9	1924.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	242.1	301.5	826.6	1740.3	1965.1
115°	278.6	338.0	790.1	1642.2	1919.5
117.5°	316.0	374.5	781.0	1536.0	1821.3
120°	344.4	398.9	764.8	1455.3	1752.4
122.5°	364.7	423.1	744.5	1385.8	1659.2
125°	400.1	454.6	744.5	1302.0	1539.7
127.5°	429.5	485.0	745.5	1204.7	1439.4
130°	445.7	505.1	749.6	1139.6	1362.4
132.5°	466.0	525.4	749.6	1110.3	1293.5
135°	496.3	550.8	749.6	1072.3	1230.7
137.5°	521.7	580.1	749.6	1030.2	1165.9
140°	541.9	596.4	749.6	1005.6	1129.4
142.5°	562.2	612.7	753.6	977.1	1093.0
145°	587.5	637.0	754.6	934.2	1033.2
147.5°	617.9	661.5	760.7	903.3	979.5
150°	638.2	677.8	764.8	882.7	947.1
152.5°	658.4	694.1	764.8	866.2	918.7
155°	688.8	713.6	769.8	846.7	886.3
157.5°	713.1	736.9	775.9	834.3	863.0
160°	729.3	749.1	780.0	826.1	850.9
162.5°	741.5	761.3	784.0	821.9	838.7
165°	764.8	774.7	790.1	810.7	825.6
167.5°	777.9	786.9	795.2	805.5	814.4
170°	790.1	795.1	795.2	805.4	810.4
172.5°	794.2	803.1	799.2	801.4	806.3
175°	805.3	810.2	805.3	800.1	795.2
177.5°	805.3	809.3	805.3	805.2	801.2
180°	805.3	805.3	805.3	805.3	805.3



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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	3.42	4.12	4.39	5.08	6.32	0.00	0.00	0.00	0.00	0.00
	3H	3.86	4.48	4.84	5.45	6.72	0.00	0.00	0.00	0.00	0.00
	4H	4.02	4.60	5.01	5.57	6.85	0.00	0.00	0.00	0.00	0.00
	6H	4.20	4.74	5.21	5.72	7.00	0.00	0.00	0.00	0.00	0.00
	8H	4.29	4.79	5.30	5.78	7.07	0.00	0.00	0.00	0.00	0.00
	12H	4.35	4.83	5.36	5.82	7.12	0.00	0.00	0.00	0.00	0.00
4H	2H	3.12	3.70	4.12	4.67	5.95	0.00	0.00	0.00	0.00	0.00
	3H	3.59	4.07	4.60	5.08	6.36	0.00	0.00	0.00	0.00	0.00
	4H	3.76	4.20	4.78	5.20	6.51	0.00	0.00	0.00	0.00	0.00
	6H	4.00	4.37	5.02	5.39	6.70	0.00	0.00	0.00	0.00	0.00
	8H	4.12	4.47	5.14	5.48	6.80	0.00	0.00	0.00	0.00	0.00
	12H	4.23	4.54	5.26	5.56	6.89	0.00	0.00	0.00	0.00	0.00
8H	4H	3.59	3.94	4.62	4.95	6.28	0.00	0.00	0.00	0.00	0.00
	6H	3.83	4.11	4.87	5.17	6.49	0.00	0.00	0.00	0.00	0.00
	8H	3.97	4.22	5.02	5.26	6.60	0.00	0.00	0.00	0.00	0.00
	12H	4.10	4.32	5.16	5.35	6.74	0.00	0.00	0.00	0.00	0.00
12H	4H	3.52	3.83	4.56	4.86	6.19	0.00	0.00	0.00	0.00	0.00
	6H	3.77	4.02	4.82	5.06	6.40	0.00	0.00	0.00	0.00	0.00
	8H	3.90	4.12	4.95	5.15	6.54	0.00	0.00	0.00	0.00	0.00