

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: P622078

Luminaire Tested: VLT-WB-M-150U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622078
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-125D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

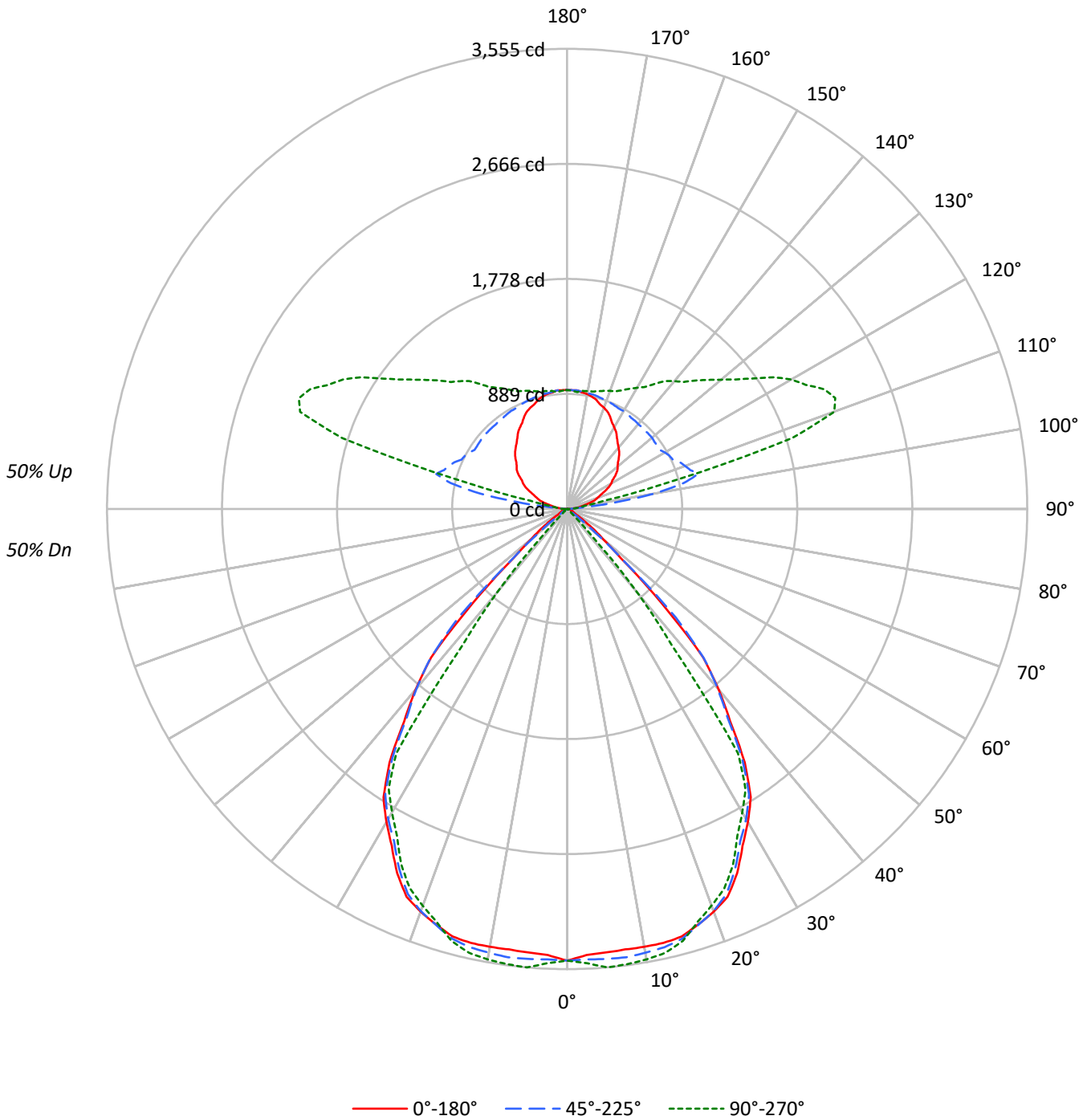
Lumens per Lamp: N/A
Luminaire Lumens: 9776.9 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 105.8
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	100	96	93	90	92	89	86	84	76	74	72	64	62	61	52	52	51	46				
2	93	86	81	77	86	80	76	72	69	66	63	58	56	55	49	47	46	42				
3	86	78	72	67	79	73	68	63	63	59	56	54	51	49	45	44	42	38				
4	80	71	64	59	74	66	60	56	58	53	50	50	46	44	42	40	38	35				
5	74	64	57	52	69	60	54	50	53	48	45	46	42	40	39	37	35	32				
6	69	59	52	47	64	55	49	44	48	44	40	42	39	36	36	34	32	29				
7	65	54	47	42	60	51	44	40	45	40	36	39	36	33	34	31	29	27				
8	60	49	43	38	56	47	41	36	41	37	33	36	33	30	32	29	27	25				
9	57	46	39	34	53	43	37	33	38	34	30	34	30	28	30	27	25	23				
10	53	42	36	31	50	40	34	30	36	31	28	32	28	26	28	25	23	21				

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	3.4
10°-20°	966.5	9.9
20°-30°	1405.3	14.4
30°-40°	1398.5	14.3
40°-50°	615.0	6.3
50°-60°	90.8	0.9
60°-70°	20.7	0.2
70°-80°	7.7	0.1
80°-90°	3.8	0.0
90°-100°	113.0	1.2
100°-110°	805.0	8.2
110°-120°	1092.8	11.2
120°-130°	889.4	9.1
130°-140°	715.4	7.3
140°-150°	564.0	5.8
150°-160°	412.4	4.2
160°-170°	256.1	2.6
170°-180°	87.3	0.9
0°-30°	2705.0	27.7
0°-40°	4103.4	42.0
0°-60°	4809.2	49.2
0°-90°	4841.5	49.5
90°-120°	2010.7	20.6
90°-150°	4179.5	42.7
90°-180°	4935.0	50.5
0°-180°	9776.9	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	6	12	17	17	2
95°	46	86	46	52	64	52
105°	179	275	1046	1336	884	189
115°	318	386	901	1874	2190	315
125°	456	519	849	1486	1757	406
135°	566	628	855	1223	1404	436
145°	670	727	861	1066	1179	421
155°	786	814	878	966	1011	361
165°	872	884	901	925	942	245
175°	919	924	919	913	907	87
180°	919	919	919	919	919	



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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	1.2	2.3	3.5	3.5
90°	0.0	5.7	11.6	17.3	17.3
92.5°	13.9	19.5	25.4	35.9	40.4
95°	46.2	85.8	46.2	52.3	63.6
97.5°	82.1	164.5	339.8	100.2	86.7
100°	109.8	205.8	681.9	200.7	132.9
102.5°	137.5	238.1	922.2	529.6	290.1
105°	179.1	275.2	1045.9	1336.1	884.1
107.5°	220.7	293.1	998.5	1944.5	1821.4
110°	248.5	316.3	970.8	2043.3	2195.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.2	344.0	943.0	1985.5	2242.0
115°	317.8	385.6	901.4	1873.6	2190.0
117.5°	360.6	427.2	891.0	1752.5	2077.9
120°	392.9	455.1	872.5	1660.3	1999.3
122.5°	416.0	482.7	849.4	1581.1	1893.0
125°	456.5	518.6	849.4	1485.5	1756.7
127.5°	490.0	553.3	850.6	1374.4	1642.2
130°	508.5	576.3	855.2	1300.2	1554.4
132.5°	531.6	599.4	855.2	1266.8	1475.8
135°	566.3	628.4	855.2	1223.4	1404.2
137.5°	595.2	661.9	855.2	1175.4	1330.2
140°	618.3	680.4	855.2	1147.3	1288.6
142.5°	641.4	699.0	859.8	1114.8	1247.0
145°	670.3	726.8	861.0	1065.8	1178.8
147.5°	705.0	754.7	867.9	1030.5	1117.6
150°	728.1	773.3	872.5	1007.1	1080.6
152.5°	751.2	791.9	872.5	988.3	1048.2
155°	785.9	814.1	878.3	966.0	1011.2
157.5°	813.6	840.7	885.3	951.9	984.7
160°	832.1	854.7	889.9	942.5	970.8
162.5°	846.0	868.6	894.5	937.7	956.9
165°	872.5	883.8	901.4	924.9	941.9
167.5°	887.6	897.7	907.2	919.0	929.2
170°	901.4	907.1	907.2	918.9	924.6
172.5°	906.1	916.2	911.8	914.3	919.9
175°	918.8	924.4	918.8	912.9	907.2
177.5°	918.8	923.3	918.8	918.7	914.2
180°	918.8	918.8	918.8	918.8	918.8



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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	3.10	3.79	4.10	4.77	6.06	0.00	0.00	0.00	0.00	0.00
	3H	3.54	4.15	4.55	5.14	6.46	0.00	0.00	0.00	0.00	0.00
	4H	3.70	4.27	4.72	5.27	6.59	0.00	0.00	0.00	0.00	0.00
	6H	3.88	4.41	4.91	5.41	6.74	0.00	0.00	0.00	0.00	0.00
	8H	3.96	4.46	5.00	5.48	6.81	0.00	0.00	0.00	0.00	0.00
	12H	4.03	4.50	5.07	5.51	6.86	0.00	0.00	0.00	0.00	0.00
4H	2H	2.80	3.37	3.82	4.37	5.69	0.00	0.00	0.00	0.00	0.00
	3H	3.27	3.74	4.30	4.77	6.10	0.00	0.00	0.00	0.00	0.00
	4H	3.44	3.87	4.48	4.89	6.25	0.00	0.00	0.00	0.00	0.00
	6H	3.68	4.04	4.72	5.08	6.44	0.00	0.00	0.00	0.00	0.00
	8H	3.80	4.14	4.84	5.17	6.54	0.00	0.00	0.00	0.00	0.00
	12H	3.90	4.21	4.97	5.26	6.63	0.00	0.00	0.00	0.00	0.00
8H	4H	3.27	3.61	4.32	4.65	6.01	0.00	0.00	0.00	0.00	0.00
	6H	3.51	3.79	4.57	4.86	6.23	0.00	0.00	0.00	0.00	0.00
	8H	3.64	3.89	4.72	4.95	6.34	0.00	0.00	0.00	0.00	0.00
	12H	3.78	3.99	4.86	5.05	6.48	0.00	0.00	0.00	0.00	0.00
12H	4H	3.20	3.51	4.26	4.55	5.93	0.00	0.00	0.00	0.00	0.00
	6H	3.45	3.69	4.52	4.75	6.14	0.00	0.00	0.00	0.00	0.00
	8H	3.58	3.79	4.65	4.85	6.28	0.00	0.00	0.00	0.00	0.00