

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: P622020

Luminaire Tested: VLT-WB-M-050U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622020
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-050U-125D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

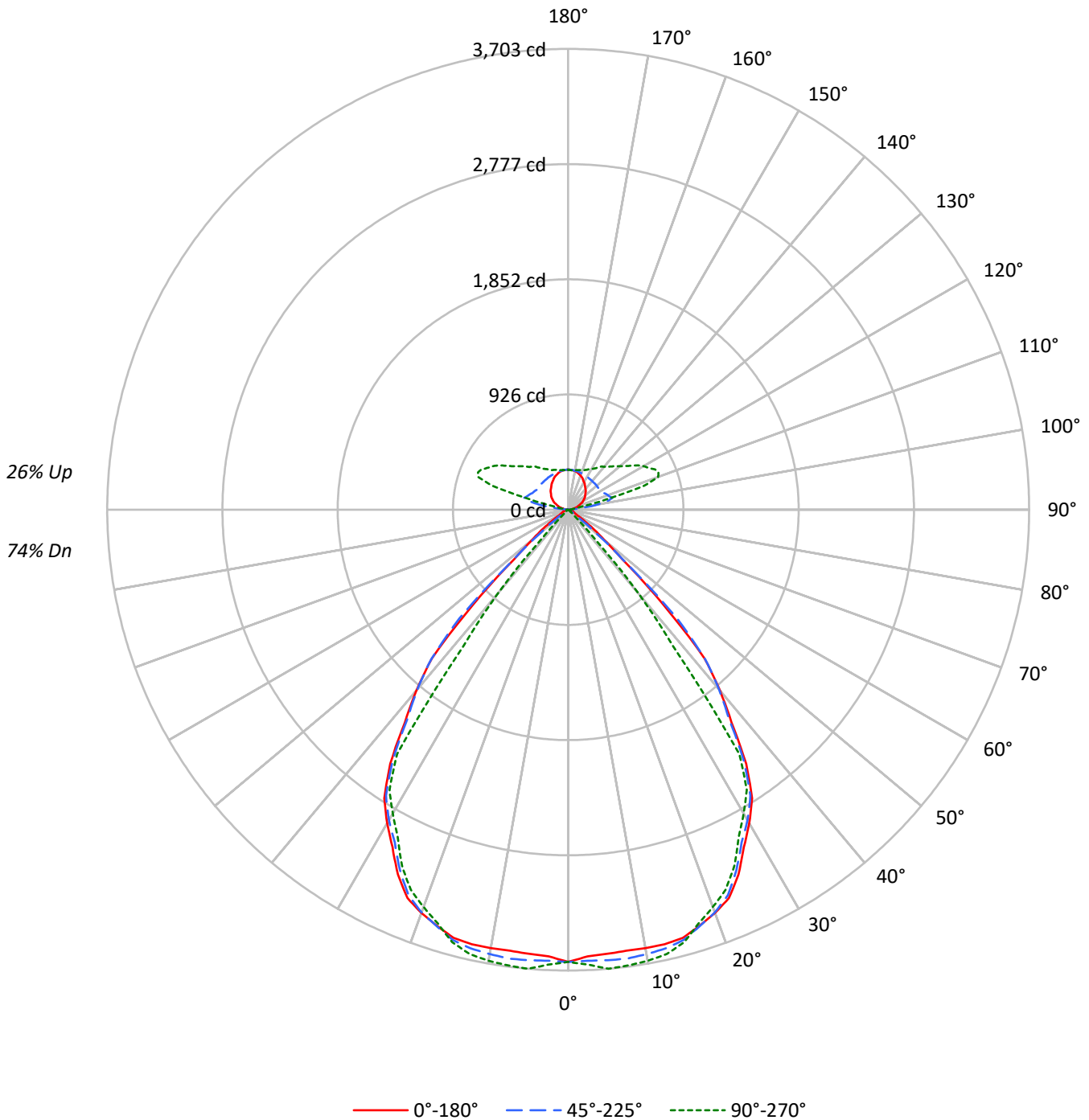
Lumens per Lamp: N/A
Luminaire Lumens: 6769.3 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 65.6
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	0
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97		87	87	87		79	79	79	74
1	106	103	100	97	101	98	96	93	90	88	86		82	80	79		74	73	72	69
2	99	94	89	85	95	90	86	82	82	79	77		76	73	71		69	68	66	63
3	93	86	80	75	89	82	77	73	76	72	69		70	67	64		65	62	60	57
4	87	78	72	67	83	75	70	65	70	65	62		65	61	58		60	57	55	53
5	82	72	65	60	78	69	63	59	65	60	56		60	56	53		56	53	50	48
6	76	66	59	54	73	64	58	53	60	55	51		56	52	49		52	49	46	44
7	72	61	54	50	69	59	53	48	56	50	47		52	48	45		49	45	43	41
8	67	57	50	45	65	55	49	44	52	46	43		49	44	41		46	42	39	37
9	63	53	46	41	61	51	45	41	48	43	39		45	41	38		43	39	36	35
10	60	49	42	38	57	48	42	38	45	40	36		43	38	35		40	36	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26073	26073	26073
5°	25802	26173	26673
10°	26064	26419	26813
15°	26458	26592	26725
20°	26333	26294	25940
25°	25613	25308	25002
30°	24098	23864	23353
35°	21828	21512	20995
40°	17752	17632	8334
45°	10987	12526	574
50°	4191	3359	345
55°	2059	612	129
60°	996	296	37
65°	917	44	44
70°	862	55	55
75°	857	72	72
80°	851	107	0
85°	848	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12526 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.0	5.1
10°-20°	1006.6	14.9
20°-30°	1463.6	21.6
30°-40°	1456.5	21.5
40°-50°	640.5	9.5
50°-60°	94.6	1.4
60°-70°	21.6	0.3
70°-80°	8.1	0.1
80°-90°	2.6	0.0
90°-100°	39.6	0.6
100°-110°	281.9	4.2
110°-120°	382.7	5.7
120°-130°	311.5	4.6
130°-140°	250.5	3.7
140°-150°	197.5	2.9
150°-160°	144.4	2.1
160°-170°	89.7	1.3
170°-180°	30.6	0.5
0°-30°	2817.2	41.6
0°-40°	4273.7	63.1
0°-60°	5008.7	74.0
0°-90°	5040.9	74.5
90°-120°	704.2	10.4
90°-150°	1463.7	21.6
90°-180°	1728.0	25.5
0°-180°	6769.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3633	3633	3633	3633	3633	
5°	3582	3645	3633	3642	3703	342
15°	3561	3637	3579	3545	3597	1001
25°	3235	3295	3196	3112	3158	1479
35°	2492	2484	2456	2404	2397	1525
45°	1083	1231	1234	82	57	838
55°	165	177	49	18	10	166
65°	54	46	3	3	3	54
75°	31	6	3	3	3	33
85°	10	0	0	0	0	11
90°	0	2	4	6	6	1
95°	16	30	16	18	22	18
105°	63	96	366	468	310	66
115°	111	135	316	656	767	110
125°	160	182	298	520	615	142
135°	198	220	300	428	492	153
145°	235	254	302	373	413	147
155°	275	285	308	338	354	126
165°	306	310	316	324	330	86
175°	322	324	322	320	318	30
180°	322	322	322	322	322	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3633.4	3633.4	3633.4	3633.4	3633.4
2.5°	3592.3	3646.6	3627.3	3625.9	3658.1
5°	3582.0	3644.9	3633.4	3642.5	3702.9
7.5°	3574.8	3638.2	3638.1	3633.8	3694.1
10°	3576.9	3642.2	3625.7	3619.4	3679.7
12.5°	3576.9	3646.3	3611.3	3594.7	3657.1
15°	3561.4	3636.9	3579.4	3544.6	3597.4
17.5°	3505.9	3587.9	3509.0	3441.1	3485.3
20°	3448.3	3536.3	3443.2	3356.6	3396.9
22.5°	3376.3	3454.2	3352.6	3262.1	3304.3
25°	3234.9	3295.2	3196.3	3112.5	3157.7
27.5°	3056.4	3089.6	3015.8	2935.2	2964.4
30°	2908.3	2933.4	2880.0	2803.2	2818.3
32.5°	2749.9	2767.0	2723.7	2657.1	2670.2
35°	2491.7	2484.2	2455.7	2404.1	2396.6
37.5°	2154.4	2141.3	2123.0	1923.4	1379.3
40°	1895.1	1900.2	1882.3	1176.3	889.7
42.5°	1621.5	1652.7	1627.2	801.0	291.1
45°	1082.6	1230.9	1234.3	81.7	56.6
47.5°	585.3	746.7	607.4	50.7	41.1
50°	375.4	468.5	300.9	38.4	30.9
52.5°	268.5	313.2	117.8	30.2	22.6
55°	164.6	177.1	48.9	17.8	10.3
57.5°	98.2	116.8	30.9	6.6	2.6
60°	69.4	82.0	20.6	2.6	2.6
62.5°	61.2	61.7	14.4	2.6	2.6
65°	54.0	46.5	2.6	2.6	2.6
67.5°	47.3	33.7	2.6	2.6	2.6
70°	41.1	23.5	2.6	2.6	2.6
72.5°	37.0	15.4	2.6	2.6	2.6
75°	30.9	5.7	2.6	2.6	2.6
77.5°	24.7	3.1	2.6	2.1	2.1
80°	20.6	3.0	2.6	0.0	0.0
82.5°	16.5	2.9	0.5	0.0	0.0
85°	10.3	0.2	0.0	0.0	0.0
87.5°	4.1	0.5	0.8	1.2	1.2
90°	0.0	2.0	4.0	6.1	6.1
92.5°	4.9	6.8	8.9	12.6	14.2
95°	16.2	30.0	16.2	18.3	22.3
97.5°	28.7	57.6	119.0	35.1	30.4
100°	38.4	72.1	238.8	70.3	46.5
102.5°	48.2	83.4	323.0	185.5	101.6
105°	62.7	96.4	366.3	467.9	309.6
107.5°	77.3	102.6	349.7	681.0	637.8
110°	87.0	110.8	340.0	715.5	769.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	96.7	120.5	330.2	695.3	785.1
115°	111.3	135.0	315.7	656.1	766.9
117.5°	126.3	149.6	312.0	613.7	727.7
120°	137.6	159.4	305.6	581.4	700.2
122.5°	145.7	169.0	297.5	553.7	662.9
125°	159.9	181.6	297.5	520.2	615.2
127.5°	171.6	193.8	297.9	481.3	575.1
130°	178.1	201.8	299.5	455.3	544.3
132.5°	186.2	209.9	299.5	443.6	516.8
135°	198.3	220.1	299.5	428.4	491.7
137.5°	208.4	231.8	299.5	411.6	465.8
140°	216.5	238.3	299.5	401.8	451.3
142.5°	224.6	244.8	301.1	390.4	436.7
145°	234.7	254.5	301.5	373.2	412.8
147.5°	246.9	264.3	303.9	360.9	391.4
150°	255.0	270.8	305.6	352.7	378.4
152.5°	263.1	277.3	305.6	346.1	367.1
155°	275.2	285.1	307.6	338.3	354.1
157.5°	284.9	294.4	310.0	333.3	344.8
160°	291.4	299.3	311.6	330.1	340.0
162.5°	296.2	304.2	313.2	328.4	335.1
165°	305.6	309.5	315.7	323.9	329.8
167.5°	310.8	314.4	317.7	321.8	325.4
170°	315.7	317.7	317.7	321.8	323.8
172.5°	317.3	320.9	319.3	320.2	322.2
175°	321.7	323.7	321.7	319.7	317.7
177.5°	321.7	323.3	321.7	321.7	320.1
180°	321.7	321.7	321.7	321.7	321.7



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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	5.47	6.29	6.22	7.03	7.92	0.00	0.00	0.00	0.00	0.00
	3H	5.91	6.64	6.68	7.39	8.31	0.00	0.00	0.00	0.00	0.00
	4H	6.07	6.75	6.86	7.52	8.45	0.00	0.00	0.00	0.00	0.00
	6H	6.26	6.88	7.06	7.66	8.60	0.00	0.00	0.00	0.00	0.00
	8H	6.35	6.94	7.16	7.73	8.67	0.00	0.00	0.00	0.00	0.00
	12H	6.42	6.98	7.23	7.76	8.73	0.00	0.00	0.00	0.00	0.00
4H	2H	5.17	5.85	5.97	6.62	7.55	0.00	0.00	0.00	0.00	0.00
	3H	5.65	6.21	6.45	7.01	7.96	0.00	0.00	0.00	0.00	0.00
	4H	5.83	6.33	6.64	7.13	8.11	0.00	0.00	0.00	0.00	0.00
	6H	6.06	6.49	6.89	7.31	8.30	0.00	0.00	0.00	0.00	0.00
	8H	6.18	6.58	7.01	7.40	8.39	0.00	0.00	0.00	0.00	0.00
	12H	6.29	6.64	7.14	7.49	8.48	0.00	0.00	0.00	0.00	0.00
8H	4H	5.66	6.06	6.49	6.87	7.87	0.00	0.00	0.00	0.00	0.00
	6H	5.89	6.21	6.75	7.08	8.07	0.00	0.00	0.00	0.00	0.00
	8H	6.02	6.31	6.89	7.17	8.18	0.00	0.00	0.00	0.00	0.00
	12H	6.16	6.41	7.03	7.26	8.33	0.00	0.00	0.00	0.00	0.00
12H	4H	5.59	5.94	6.44	6.78	7.78	0.00	0.00	0.00	0.00	0.00
	6H	5.83	6.11	6.70	6.97	7.99	0.00	0.00	0.00	0.00	0.00
	8H	5.96	6.21	6.83	7.06	8.13	0.00	0.00	0.00	0.00	0.00