

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: P621761

Luminaire Tested: VLT-FB-025U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621761
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-19)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FB-025U-100D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

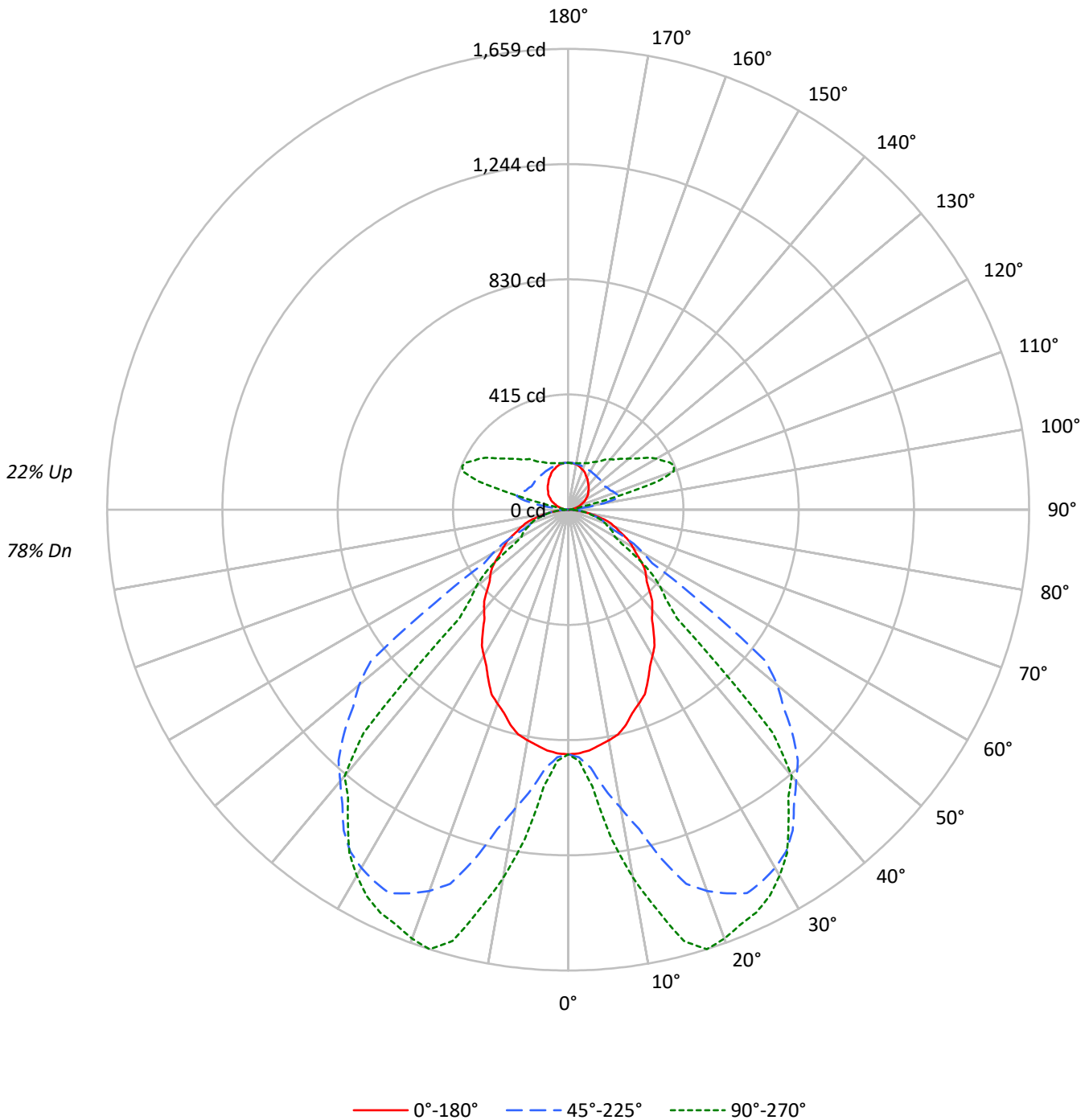
Lumens per Lamp: N/A
Luminaire Lumens: 4064.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 37.5
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	114	114	114	114	108	108	108	108	99	99	99	90	90	90	82	82	82	82	82	82	78	
1	105	101	97	94	100	96	93	90	88	86	83	81	79	77	74	72	71	71	71	71	67	
2	96	89	83	78	92	85	80	76	78	74	71	72	69	66	66	63	61	61	61	61	58	
3	89	79	72	66	84	76	70	64	70	65	60	64	60	57	59	56	53	53	53	53	50	
4	81	71	63	57	78	68	61	55	63	57	52	58	53	49	53	50	46	46	46	46	44	
5	75	64	55	50	72	61	54	48	57	50	46	52	47	43	48	44	41	41	41	41	38	
6	70	57	49	43	66	55	48	42	51	45	40	48	42	38	44	40	36	36	36	36	34	
7	64	52	44	38	61	50	43	38	47	40	36	43	38	34	40	36	32	32	32	32	30	
8	60	47	40	34	57	46	39	34	43	36	32	40	34	31	37	33	29	29	29	29	27	
9	56	44	36	31	53	42	35	30	39	33	29	37	31	28	34	30	26	26	26	26	24	
10	52	40	33	28	50	39	32	27	36	30	26	34	29	25	32	27	24	24	24	24	22	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6320	6320	6320
5°	6266	6718	7195
10°	6143	7943	9809
15°	5957	9681	11942
20°	5673	11154	12548
25°	5371	12061	12671
30°	5028	12340	12607
35°	4688	12341	12106
40°	4410	11956	11721
45°	4196	11589	5613
50°	4077	10971	4836
55°	3963	7345	3830
60°	3853	4471	2774
65°	3769	3404	2888
70°	3718	2967	2967
75°	3624	3078	2978
80°	3182	3108	2959
85°	2355	3244	2799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11589 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	2.3
10°-20°	350.2	8.6
20°-30°	593.1	14.6
30°-40°	719.5	17.7
40°-50°	633.3	15.6
50°-60°	391.9	9.6
60°-70°	212.5	5.2
70°-80°	121.0	3.0
80°-90°	40.0	1.0
90°-100°	20.8	0.5
100°-110°	148.1	3.6
110°-120°	201.1	4.9
120°-130°	163.6	4.0
130°-140°	131.6	3.2
140°-150°	103.8	2.6
150°-160°	75.9	1.9
160°-170°	47.1	1.2
170°-180°	16.1	0.4
0°-30°	1038.2	25.5
0°-40°	1757.7	43.2
0°-60°	2782.9	68.5
0°-90°	3156.4	77.7
90°-120°	369.9	9.1
90°-150°	769.0	18.9
90°-180°	908.0	22.3
0°-180°	4064.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	870	898	933	973	999	82
15°	802	924	1303	1541	1607	225
25°	678	929	1523	1569	1600	312
35°	535	861	1409	1389	1382	335
45°	414	708	1142	968	553	321
55°	317	494	587	339	306	284
65°	222	278	200	172	170	220
75°	131	115	111	109	107	137
85°	29	39	39	36	34	35
90°	0	1	2	3	3	2
95°	8	16	8	10	12	10
105°	33	51	192	246	163	35
115°	58	71	166	345	403	58
125°	84	95	156	273	323	75
135°	104	116	157	225	258	80
145°	123	134	158	196	217	77
155°	145	150	162	178	186	66
165°	160	163	166	170	173	45
175°	169	170	169	168	167	16
180°	169	169	169	169	169	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	880.7	880.7	880.7	880.7	880.7
2.5°	877.8	887.6	892.1	900.8	905.0
5°	869.9	897.9	932.6	972.6	998.8
7.5°	856.0	906.0	1015.6	1141.8	1195.7
10°	843.1	911.3	1090.1	1272.6	1346.1
12.5°	828.8	916.6	1177.5	1398.6	1473.5
15°	801.9	924.4	1303.1	1540.9	1607.4
17.5°	767.2	929.3	1412.0	1616.3	1659.0
20°	742.9	930.1	1460.6	1625.7	1643.2
22.5°	719.9	931.0	1495.0	1602.7	1617.4
25°	678.4	928.7	1523.3	1568.8	1600.3
27.5°	636.9	918.3	1509.3	1546.0	1568.8
30°	606.8	907.8	1489.3	1519.8	1521.5
32.5°	578.2	890.4	1459.2	1468.1	1465.7
35°	535.2	860.8	1408.7	1388.9	1381.9
37.5°	495.1	821.4	1335.0	1303.1	1301.3
40°	470.8	792.8	1276.3	1246.0	1251.2
42.5°	447.9	760.1	1223.3	1187.8	1089.4
45°	413.5	707.5	1142.0	967.9	553.1
47.5°	383.8	647.7	1050.0	518.5	476.1
50°	365.2	606.7	982.7	455.9	433.2
52.5°	346.5	568.5	895.4	410.0	380.2
55°	316.8	493.6	587.1	339.3	306.1
57.5°	288.5	414.9	358.7	263.7	227.7
60°	268.5	368.3	311.5	212.6	193.3
62.5°	249.9	330.0	265.6	188.6	184.7
65°	222.0	278.0	200.5	171.8	170.1
67.5°	195.8	228.4	152.9	154.6	152.9
70°	177.2	193.0	141.4	143.2	141.4
72.5°	160.0	159.0	130.0	128.8	127.1
75°	130.7	114.9	111.0	109.2	107.4
77.5°	99.9	84.8	89.5	87.7	85.9
80°	77.0	71.7	75.2	73.4	71.6
82.5°	56.9	58.7	60.9	57.6	55.8
85°	28.6	39.1	39.4	35.8	34.0
87.5°	8.6	17.2	16.2	13.5	12.1
90°	0.0	1.0	2.1	3.2	3.2
92.5°	2.6	3.6	4.7	6.6	7.4
95°	8.5	15.8	8.5	9.6	11.7
97.5°	15.1	30.3	62.5	18.4	15.9
100°	20.2	37.9	125.5	36.9	24.5
102.5°	25.3	43.8	169.7	97.4	53.4
105°	33.0	50.6	192.4	245.8	162.7
107.5°	40.6	53.9	183.7	357.8	335.1
110°	45.7	58.2	178.6	375.9	404.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.8	63.3	173.5	365.3	412.5
115°	58.5	70.9	165.9	344.7	402.9
117.5°	66.3	78.6	163.9	322.4	382.3
120°	72.3	83.7	160.5	305.5	367.9
122.5°	76.5	88.8	156.3	290.9	348.3
125°	84.0	95.4	156.3	273.3	323.2
127.5°	90.2	101.8	156.5	252.9	302.2
130°	93.6	106.0	157.4	239.2	286.0
132.5°	97.8	110.3	157.4	233.1	271.5
135°	104.2	115.6	157.4	225.1	258.4
137.5°	109.5	121.8	157.4	216.3	244.7
140°	113.8	125.2	157.4	211.1	237.1
142.5°	118.0	128.6	158.2	205.1	229.4
145°	123.3	133.7	158.4	196.1	216.9
147.5°	129.7	138.9	159.7	189.6	205.6
150°	134.0	142.3	160.5	185.3	198.8
152.5°	138.2	145.7	160.5	181.8	192.9
155°	144.6	149.8	161.6	177.7	186.1
157.5°	149.7	154.7	162.9	175.1	181.2
160°	153.1	157.3	163.7	173.4	178.6
162.5°	155.7	159.8	164.6	172.5	176.1
165°	160.5	162.6	165.9	170.2	173.3
167.5°	163.3	165.2	166.9	169.1	171.0
170°	165.9	166.9	166.9	169.1	170.1
172.5°	166.7	168.6	167.8	168.2	169.3
175°	169.0	170.1	169.0	168.0	166.9
177.5°	169.0	169.9	169.0	169.0	168.2
180°	169.0	169.0	169.0	169.0	169.0

(END OF REPORT)