

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: P621874

Luminaire Tested: VLT-FB-125U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621874
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-125U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

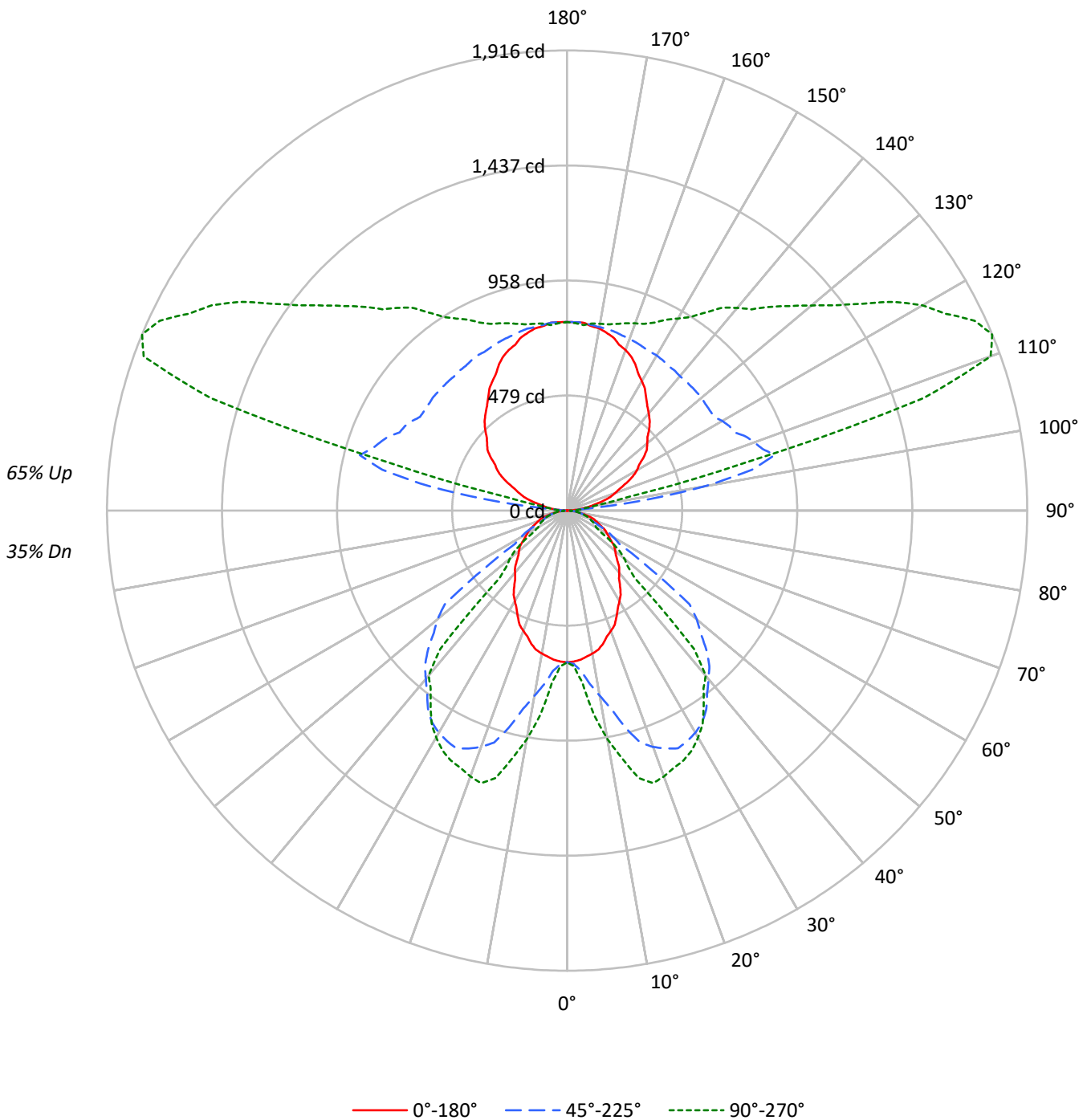
Lumens per Lamp: N/A
Luminaire Lumens: 6481.9 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (Ain): 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	104	104	104	104	94	94	94	94	75	75	75		58	58	58		42	42	42	35
1	95	91	87	84	86	82	79	76	66	64	62		52	50	49		38	37	36	30
2	87	80	74	69	78	72	67	63	59	55	52		46	44	42		34	33	31	26
3	79	70	63	58	71	64	58	53	52	48	44		41	38	36		30	29	27	23
4	73	62	55	49	65	57	50	45	46	42	38		37	33	31		27	25	24	20
5	67	56	48	42	60	51	44	39	41	37	33		33	29	27		25	23	21	17
6	61	50	42	37	55	46	39	34	37	32	29		30	26	23		23	20	18	15
7	57	45	37	32	51	41	34	30	34	29	25		27	23	21		21	18	16	14
8	53	41	33	28	48	37	31	26	31	26	22		25	21	18		19	16	15	12
9	49	37	30	25	44	34	28	23	28	23	20		23	19	17		17	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18		21	17	15		16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4532	4532	4532
5°	4493	4817	5159
10°	4405	5696	7033
15°	4272	6942	8563
20°	4068	7998	8998
25°	3852	8649	9086
30°	3605	8849	9040
35°	3362	8849	8680
40°	3162	8573	8405
45°	3009	8310	4025
50°	2923	7867	3467
55°	2842	5267	2746
60°	2763	3205	1989
65°	2703	2442	2070
70°	2667	2127	2127
75°	2598	2207	2135
80°	2281	2227	2120
85°	1688	2322	2009

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 8310 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	1.1
10°-20°	251.1	3.9
20°-30°	425.3	6.6
30°-40°	515.9	8.0
40°-50°	454.1	7.0
50°-60°	281.0	4.3
60°-70°	152.4	2.4
70°-80°	86.8	1.3
80°-90°	30.2	0.5
90°-100°	96.5	1.5
100°-110°	687.8	10.6
110°-120°	933.8	14.4
120°-130°	760.0	11.7
130°-140°	611.2	9.4
140°-150°	481.9	7.4
150°-160°	352.4	5.4
160°-170°	218.9	3.4
170°-180°	74.6	1.2
0°-30°	744.5	11.5
0°-40°	1260.4	19.4
0°-60°	1995.5	30.8
0°-90°	2264.8	34.9
90°-120°	1718.1	26.5
90°-150°	3571.3	55.1
90°-180°	4217.0	65.1
0°-180°	6481.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	624	644	669	697	716	59
15°	575	663	934	1105	1153	161
25°	486	666	1092	1125	1148	223
35°	384	617	1010	996	991	241
45°	296	507	819	694	397	230
55°	227	354	421	243	220	203
65°	159	199	144	123	122	158
75°	94	82	80	78	77	98
85°	20	28	28	26	24	25
90°	0	5	10	15	15	2
95°	40	73	40	45	54	44
105°	153	235	894	1142	755	161
115°	272	330	770	1601	1871	270
125°	390	443	726	1269	1501	347
135°	484	537	731	1045	1200	372
145°	573	621	736	911	1007	360
155°	672	696	750	825	864	308
165°	746	755	770	790	805	209
175°	785	790	785	780	775	74
180°	785	785	785	785	785	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	631.5	631.5	631.5	631.5	631.5
2.5°	629.4	636.5	639.7	645.9	648.9
5°	623.8	643.9	668.7	697.4	716.2
7.5°	613.8	649.7	728.3	818.7	857.4
10°	604.5	653.5	781.7	912.5	965.2
12.5°	594.3	657.3	844.3	1002.9	1056.6
15°	575.0	662.9	934.4	1104.9	1152.6
17.5°	550.1	666.3	1012.4	1158.9	1189.6
20°	532.7	666.9	1047.4	1165.7	1178.3
22.5°	516.2	667.6	1072.0	1149.2	1159.8
25°	486.5	665.9	1092.3	1124.9	1147.5
27.5°	456.7	658.5	1082.3	1108.6	1124.9
30°	435.1	651.0	1067.9	1089.7	1091.0
32.5°	414.6	638.5	1046.3	1052.7	1050.9
35°	383.8	617.2	1010.1	995.9	990.9
37.5°	355.0	589.0	957.3	934.4	933.1
40°	337.6	568.5	915.2	893.4	897.2
42.5°	321.1	545.0	877.2	851.7	781.2
45°	296.5	507.3	818.9	694.0	396.6
47.5°	275.2	464.4	752.9	371.8	341.4
50°	261.8	435.0	704.7	326.9	310.6
52.5°	248.5	407.6	642.0	294.0	272.6
55°	227.2	353.9	421.0	243.3	219.5
57.5°	206.9	297.5	257.2	189.1	163.3
60°	192.5	264.1	223.3	152.4	138.6
62.5°	179.2	236.7	190.5	135.2	132.5
65°	159.2	199.3	143.8	123.2	121.9
67.5°	140.4	163.8	109.6	110.9	109.6
70°	127.1	138.4	101.4	102.7	101.4
72.5°	114.7	114.0	93.2	92.4	91.1
75°	93.7	82.4	79.6	78.3	77.0
77.5°	71.6	60.8	64.2	62.9	61.6
80°	55.2	51.4	53.9	52.6	51.3
82.5°	40.8	42.1	43.6	41.3	40.0
85°	20.5	28.1	28.2	25.6	24.4
87.5°	6.2	13.2	13.3	12.2	11.2
90°	0.0	4.8	9.9	14.8	14.8
92.5°	11.8	16.7	21.7	30.7	34.6
95°	39.5	73.3	39.5	44.7	54.3
97.5°	70.1	140.6	290.3	85.6	74.1
100°	93.8	175.9	582.6	171.5	113.6
102.5°	117.5	203.4	788.0	452.6	247.9
105°	153.1	235.1	893.7	1141.7	755.4
107.5°	188.6	250.4	853.2	1661.5	1556.3
110°	212.3	270.2	829.5	1745.9	1876.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	293.9	805.8	1696.6	1915.7
115°	271.6	329.5	770.2	1600.9	1871.3
117.5°	308.1	365.1	761.4	1497.4	1775.5
120°	335.7	388.9	745.6	1418.7	1708.4
122.5°	355.5	412.5	725.8	1351.0	1617.5
125°	390.1	443.2	725.8	1269.3	1501.0
127.5°	418.7	472.8	726.8	1174.4	1403.2
130°	434.5	492.4	730.7	1110.9	1328.2
132.5°	454.2	512.2	730.7	1082.4	1261.0
135°	483.9	537.0	730.7	1045.3	1199.8
137.5°	508.6	565.5	730.7	1004.3	1136.6
140°	528.3	581.4	730.7	980.4	1101.1
142.5°	548.1	597.3	734.7	952.5	1065.5
145°	572.7	621.0	735.7	910.7	1007.2
147.5°	602.4	644.9	741.6	880.6	954.9
150°	622.1	660.7	745.6	860.5	923.3
152.5°	641.9	676.6	745.6	844.5	895.7
155°	671.5	695.6	750.5	825.4	864.1
157.5°	695.2	718.4	756.4	813.3	841.3
160°	711.0	730.3	760.4	805.4	829.5
162.5°	722.8	742.2	764.3	801.2	817.6
165°	745.6	755.2	770.2	790.3	804.8
167.5°	758.4	767.1	775.2	785.3	793.9
170°	770.2	775.1	775.2	785.2	790.0
172.5°	774.2	782.9	779.1	781.2	786.0
175°	785.1	789.9	785.1	780.0	775.2
177.5°	785.1	788.9	785.1	785.0	781.1
180°	785.1	785.1	785.1	785.1	785.1

(END OF REPORT)