

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: P621802

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621802
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-075U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

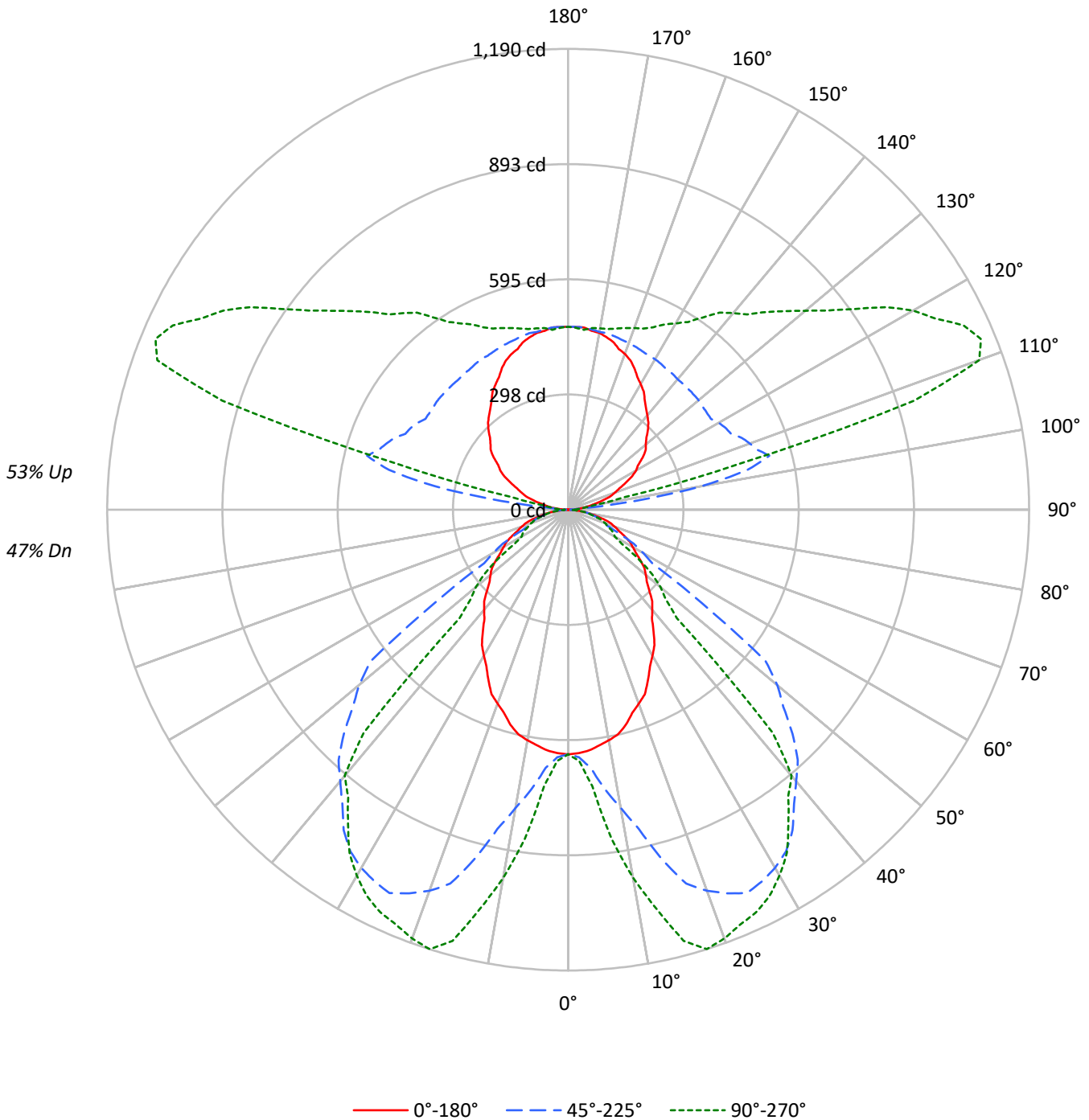
Lumens per Lamp: N/A
Luminaire Lumens: 4801.8 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.4
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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	98	94	90	87	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	82	77	72	82	76	71	67	64	61	57	53	51	48	43	41	40	35
3	82	73	66	60	75	67	61	56	57	53	49	48	44	42	39	36	35	30
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30	27
5	69	58	50	44	63	54	47	42	46	41	37	38	35	31	32	29	27	23
6	64	52	44	39	59	48	41	36	41	36	32	35	31	28	29	26	23	21
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	22	27	23	20	22	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	15	13

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	1.4
10°-20°	251.1	5.2
20°-30°	425.3	8.9
30°-40°	515.9	10.7
40°-50°	454.1	9.5
50°-60°	281.0	5.9
60°-70°	152.4	3.2
70°-80°	86.8	1.8
80°-90°	29.4	0.6
90°-100°	58.1	1.2
100°-110°	413.9	8.6
110°-120°	561.9	11.7
120°-130°	457.3	9.5
130°-140°	367.8	7.7
140°-150°	290.0	6.0
150°-160°	212.0	4.4
160°-170°	131.7	2.7
170°-180°	44.9	0.9
0°-30°	744.5	15.5
0°-40°	1260.4	26.2
0°-60°	1995.5	41.6
0°-90°	2264.1	47.2
90°-120°	1033.9	21.5
90°-150°	2149.1	44.8
90°-180°	2538.0	52.9
0°-180°	4801.8	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	3	6	9	9	2
95°	24	44	24	27	33	27
105°	92	142	538	687	455	97
115°	163	198	464	963	1126	162
125°	235	267	437	764	903	209
135°	291	323	440	629	722	224
145°	345	374	443	548	606	216
155°	404	419	452	497	520	186
165°	449	454	464	476	484	126
175°	472	475	472	469	466	45
180°	472	472	472	472	472	



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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	12.8	12.5	11.0	10.0
90°	0.0	2.9	5.9	8.9	8.9
92.5°	7.1	10.0	13.1	18.5	20.8
95°	23.8	44.1	23.8	26.9	32.7
97.5°	42.2	84.6	174.7	51.5	44.6
100°	56.5	105.8	350.6	103.2	68.3
102.5°	70.7	122.4	474.2	272.3	149.2
105°	92.1	141.5	537.8	687.0	454.6
107.5°	113.5	150.7	513.4	999.9	936.5
110°	127.8	162.6	499.2	1050.6	1129.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.0	176.9	484.9	1020.9	1152.8
115°	163.4	198.3	463.5	963.4	1126.1
117.5°	185.4	219.7	458.2	901.1	1068.4
120°	202.0	234.0	448.7	853.7	1028.0
122.5°	213.9	248.2	436.8	813.0	973.4
125°	234.7	266.7	436.8	763.8	903.2
127.5°	252.0	284.5	437.4	706.7	844.4
130°	261.5	296.3	439.7	668.5	799.3
132.5°	273.4	308.2	439.7	651.4	758.8
135°	291.2	323.1	439.7	629.0	722.0
137.5°	306.0	340.3	439.7	604.4	684.0
140°	317.9	349.9	439.7	589.9	662.6
142.5°	329.8	359.4	442.1	573.2	641.2
145°	344.7	373.7	442.7	548.0	606.1
147.5°	362.5	388.1	446.3	529.9	574.6
150°	374.4	397.6	448.7	517.8	555.6
152.5°	386.3	407.2	448.7	508.2	539.0
155°	404.1	418.6	451.6	496.7	520.0
157.5°	418.3	432.3	455.2	489.4	506.3
160°	427.9	439.5	457.6	484.6	499.2
162.5°	435.0	446.6	459.9	482.2	492.0
165°	448.7	454.5	463.5	475.6	484.3
167.5°	456.4	461.6	466.5	472.5	477.8
170°	463.5	466.4	466.5	472.5	475.4
172.5°	465.9	471.1	468.9	470.1	473.0
175°	472.4	475.3	472.4	469.4	466.5
177.5°	472.4	474.7	472.4	472.4	470.0
180°	472.4	472.4	472.4	472.4	472.4

(END OF REPORT)