

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: P621778

Luminaire Tested: VLT-FB-050U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621778
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-050U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

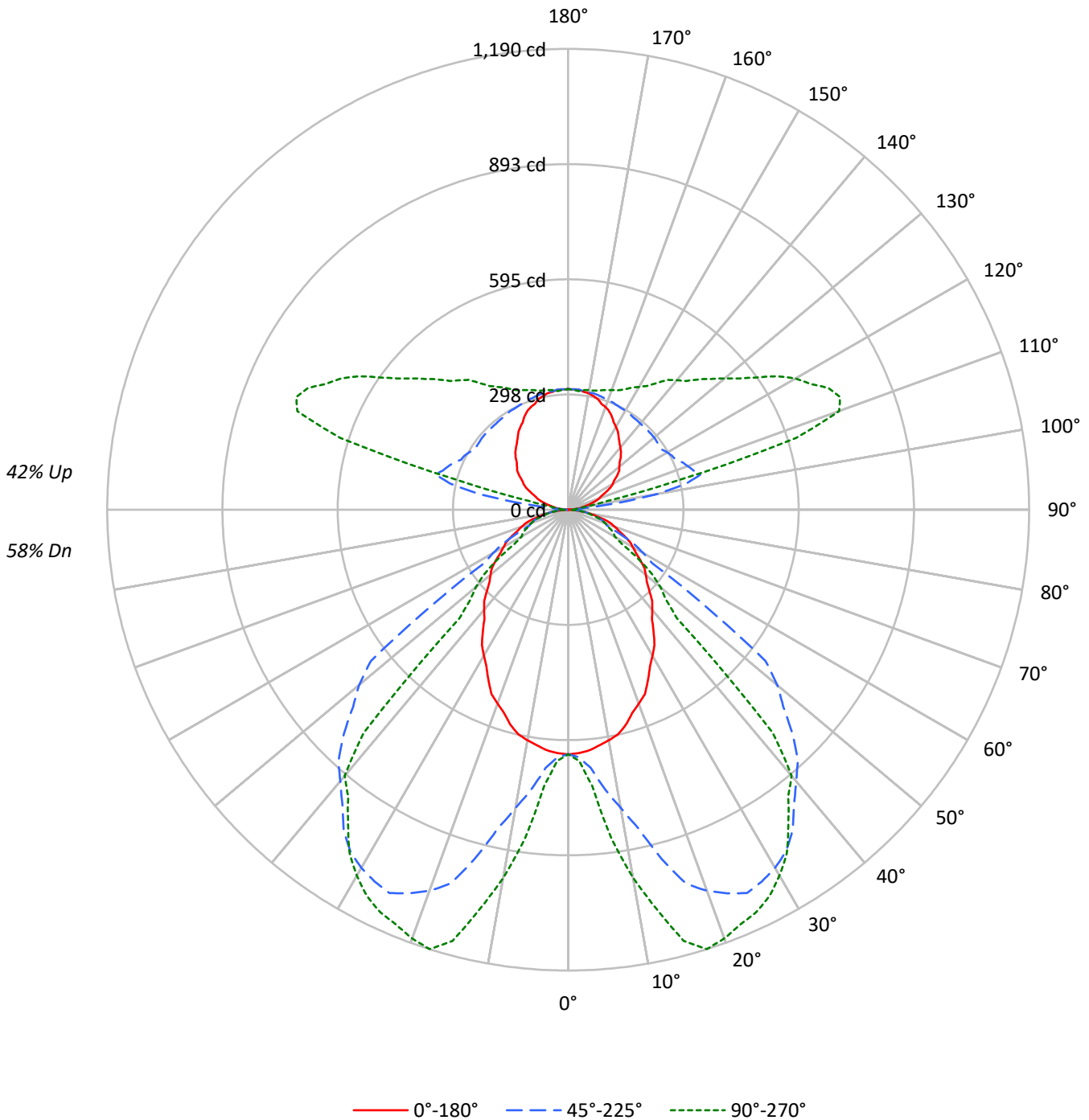
Lumens per Lamp: N/A
Luminaire Lumens: 3936.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.2
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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58
1	100	96	92	89	93	90	87	84	78	75	73	67	65	64	57	56	55	50
2	92	85	79	74	85	79	74	70	69	65	62	60	57	54	51	49	47	43
3	84	75	68	62	78	70	64	59	61	57	53	53	50	47	46	43	41	37
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	41	38	36	32
5	71	60	52	46	66	56	49	44	50	44	40	43	39	35	37	34	31	28
6	66	54	46	40	61	51	44	38	45	39	35	39	35	31	34	31	28	25
7	61	49	41	35	57	46	39	34	41	35	31	36	31	28	31	28	25	22
8	56	44	37	31	53	42	35	30	37	31	27	33	28	25	29	25	22	20
9	53	40	33	28	49	38	32	27	34	29	25	30	26	22	26	23	20	18
10	49	37	30	25	46	35	29	24	31	26	22	28	23	20	24	21	18	16

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	1.7
10°-20°	251.1	6.4
20°-30°	425.3	10.8
30°-40°	515.9	13.1
40°-50°	454.1	11.5
50°-60°	281.0	7.1
60°-70°	152.4	3.9
70°-80°	86.8	2.2
80°-90°	29.1	0.7
90°-100°	38.3	1.0
100°-110°	272.7	6.9
110°-120°	370.3	9.4
120°-130°	301.4	7.7
130°-140°	242.4	6.2
140°-150°	191.1	4.9
150°-160°	139.7	3.5
160°-170°	86.8	2.2
170°-180°	29.6	0.8
0°-30°	744.5	18.9
0°-40°	1260.4	32.0
0°-60°	1995.5	50.7
0°-90°	2263.7	57.5
90°-120°	681.3	17.3
90°-150°	1416.2	36.0
90°-180°	1672.0	42.5
0°-180°	3936.0	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	2	4	6	6	1
95°	16	29	16	18	22	18
105°	61	93	354	453	300	64
115°	108	131	305	635	742	107
125°	155	176	288	503	595	137
135°	192	213	290	414	476	148
145°	227	246	292	361	399	143
155°	266	276	298	327	343	122
165°	296	300	305	313	319	83
175°	311	313	311	309	307	29
180°	311	311	311	311	311	



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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	12.6	12.1	10.4	9.4
90°	0.0	1.9	3.9	5.9	5.9
92.5°	4.7	6.6	8.6	12.2	13.7
95°	15.7	29.1	15.7	17.7	21.5
97.5°	27.8	55.8	115.1	34.0	29.4
100°	37.2	69.7	231.0	68.0	45.0
102.5°	46.6	80.7	312.5	179.5	98.3
105°	60.7	93.2	354.4	452.7	299.6
107.5°	74.8	99.3	338.3	658.9	617.1
110°	84.2	107.2	328.9	692.3	744.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	93.6	116.6	319.5	672.7	759.7
115°	107.7	130.7	305.4	634.8	742.0
117.5°	122.2	144.8	301.9	593.8	704.1
120°	133.1	154.2	295.6	562.6	677.4
122.5°	141.0	163.6	287.8	535.7	641.4
125°	154.7	175.7	287.8	503.3	595.2
127.5°	166.0	187.5	288.2	465.7	556.4
130°	172.3	195.3	289.8	440.5	526.7
132.5°	180.1	203.1	289.8	429.2	500.0
135°	191.9	212.9	289.8	414.5	475.8
137.5°	201.7	224.3	289.8	398.2	450.7
140°	209.5	230.6	289.8	388.7	436.6
142.5°	217.3	236.9	291.3	377.7	422.5
145°	227.1	246.3	291.7	361.1	399.4
147.5°	238.9	255.7	294.1	349.2	378.7
150°	246.7	262.0	295.6	341.2	366.1
152.5°	254.5	268.3	295.6	334.9	355.2
155°	266.3	275.8	297.6	327.3	342.6
157.5°	275.7	284.9	299.9	322.5	333.6
160°	281.9	289.6	301.5	319.4	328.9
162.5°	286.6	294.3	303.1	317.7	324.2
165°	295.6	299.5	305.4	313.4	319.1
167.5°	300.7	304.2	307.4	311.4	314.8
170°	305.4	307.3	307.4	311.3	313.3
172.5°	307.0	310.4	309.0	309.8	311.7
175°	311.3	313.2	311.3	309.3	307.4
177.5°	311.3	312.8	311.3	311.3	309.7
180°	311.3	311.3	311.3	311.3	311.3

(END OF REPORT)