

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: P621797

Luminaire Tested: VLT-FB-075U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621797
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-050D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

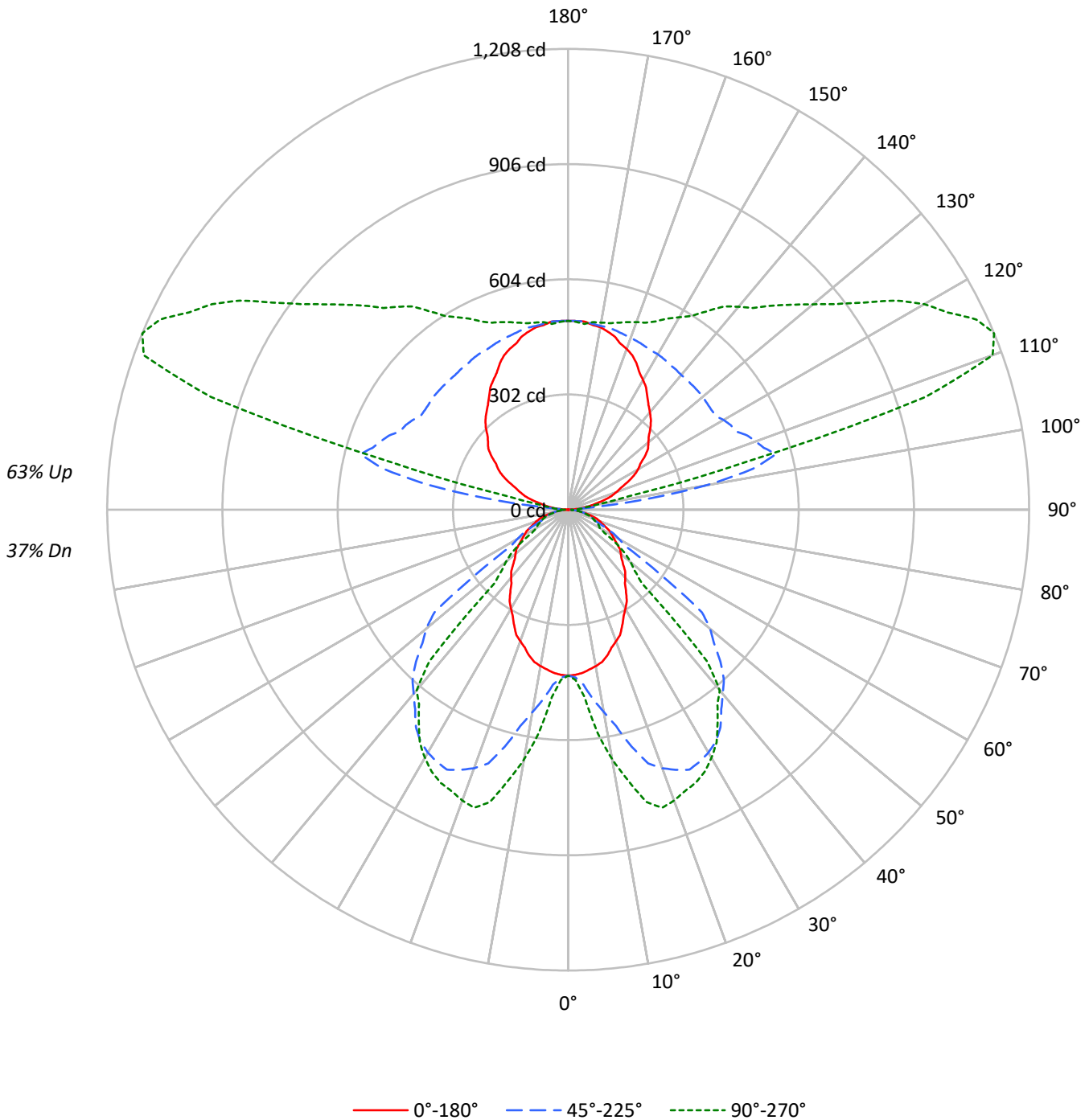
Lumens per Lamp: N/A
Luminaire Lumens: 4218.6 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 35.2
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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32				
2	87	80	74	70	79	73	68	64	59	56	53	47	45	43	35	34	33	28				
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	28	24				
4	73	63	55	50	66	57	51	46	47	42	39	38	34	32	29	27	25	21				
5	67	56	48	43	61	51	45	40	42	37	33	34	30	28	26	24	22	18				
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16				
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	22	19	17	14				
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13				
9	49	37	30	25	45	34	28	24	29	24	20	23	20	17	18	16	14	12				
10	46	34	27	23	42	32	25	21	26	22	18	21	18	15	17	14	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3120	3120	3120
5°	3094	3316	3552
10°	3033	3921	4842
15°	2941	4779	5895
20°	2800	5507	6195
25°	2652	5954	6255
30°	2483	6092	6224
35°	2314	6092	5976
40°	2177	5902	5786
45°	2071	5722	2770
50°	2013	5416	2387
55°	1957	3626	1890
60°	1902	2207	1369
65°	1861	1681	1425
70°	1836	1464	1464
75°	1788	1519	1469
80°	1570	1533	1459
85°	1161	1597	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	1.1
10°-20°	172.9	4.1
20°-30°	292.8	6.9
30°-40°	355.2	8.4
40°-50°	312.6	7.4
50°-60°	193.5	4.6
60°-70°	104.9	2.5
70°-80°	59.8	1.4
80°-90°	20.6	0.5
90°-100°	60.9	1.4
100°-110°	433.8	10.3
110°-120°	588.9	14.0
120°-130°	479.3	11.4
130°-140°	385.5	9.1
140°-150°	303.9	7.2
150°-160°	222.2	5.3
160°-170°	138.0	3.3
170°-180°	47.1	1.1
0°-30°	512.5	12.1
0°-40°	867.7	20.6
0°-60°	1373.8	32.6
0°-90°	1559.1	37.0
90°-120°	1083.5	25.7
90°-150°	2252.2	53.4
90°-180°	2659.0	63.0
0°-180°	4218.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	435	435	435	435	435	
5°	430	443	460	480	493	41
15°	396	456	643	761	794	111
25°	335	458	752	774	790	154
35°	264	425	695	686	682	166
45°	204	349	564	478	273	158
55°	156	244	290	168	151	140
65°	110	137	99	85	84	109
75°	64	57	55	54	53	67
85°	14	19	19	18	17	17
90°	0	3	6	9	9	2
95°	25	46	25	28	34	28
105°	96	148	564	720	476	102
115°	171	208	486	1010	1180	170
125°	246	280	458	800	947	219
135°	305	339	461	659	757	235
145°	361	392	464	574	635	227
155°	424	439	473	521	545	194
165°	470	476	486	498	508	132
175°	495	498	495	492	489	47
180°	495	495	495	495	495	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	434.8	434.8	434.8	434.8	434.8
2.5°	433.3	438.2	440.4	444.7	446.8
5°	429.5	443.3	460.4	480.1	493.1
7.5°	422.6	447.3	501.4	563.7	590.3
10°	416.2	449.9	538.1	628.2	664.5
12.5°	409.1	452.5	581.3	690.4	727.4
15°	395.9	456.4	643.3	760.7	793.5
17.5°	378.7	458.7	697.0	797.9	819.0
20°	366.7	459.2	721.1	802.6	811.2
22.5°	355.4	459.6	738.0	791.2	798.5
25°	334.9	458.5	752.0	774.4	790.0
27.5°	314.4	453.3	745.1	763.2	774.4
30°	299.6	448.2	735.2	750.2	751.1
32.5°	285.4	439.6	720.4	724.7	723.5
35°	264.2	424.9	695.4	685.6	682.2
37.5°	244.4	405.5	659.0	643.3	642.4
40°	232.4	391.4	630.0	615.1	617.7
42.5°	221.1	375.2	603.9	586.3	537.8
45°	204.1	349.3	563.8	477.8	273.0
47.5°	189.5	319.7	518.4	256.0	235.1
50°	180.3	299.5	485.1	225.1	213.8
52.5°	171.1	280.6	442.0	202.4	187.7
55°	156.4	243.7	289.8	167.5	151.1
57.5°	142.4	204.8	177.1	130.2	112.4
60°	132.5	181.8	153.8	104.9	95.4
62.5°	123.4	162.9	131.1	93.1	91.2
65°	109.6	137.2	99.0	84.8	83.9
67.5°	96.7	112.7	75.5	76.3	75.5
70°	87.5	95.3	69.8	70.7	69.8
72.5°	79.0	78.5	64.2	63.6	62.7
75°	64.5	56.7	54.8	53.9	53.0
77.5°	49.3	41.9	44.2	43.3	42.4
80°	38.0	35.4	37.1	36.2	35.3
82.5°	28.1	29.0	30.0	28.4	27.6
85°	14.1	19.3	19.4	17.7	16.8
87.5°	4.2	9.0	9.0	8.2	7.5
90°	0.0	3.0	6.2	9.3	9.3
92.5°	7.5	10.5	13.7	19.4	21.8
95°	24.9	46.2	24.9	28.2	34.3
97.5°	44.2	88.7	183.1	54.0	46.7
100°	59.2	110.9	367.4	108.2	71.6
102.5°	74.1	128.3	497.0	285.4	156.3
105°	96.5	148.3	563.6	720.0	476.4
107.5°	118.9	157.9	538.1	1047.8	981.5
110°	133.9	170.4	523.1	1101.0	1183.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	148.8	185.4	508.2	1069.9	1208.1
115°	171.3	207.8	485.8	1009.6	1180.1
117.5°	194.3	230.2	480.1	944.3	1119.7
120°	211.7	245.2	470.2	894.7	1077.4
122.5°	224.2	260.1	457.7	852.0	1020.1
125°	246.0	279.5	457.7	800.5	946.6
127.5°	264.0	298.1	458.3	740.6	884.9
130°	274.0	310.5	460.8	700.6	837.6
132.5°	286.5	323.0	460.8	682.6	795.3
135°	305.2	338.6	460.8	659.2	756.7
137.5°	320.7	356.6	460.8	633.4	716.8
140°	333.2	366.7	460.8	618.3	694.4
142.5°	345.6	376.7	463.3	600.7	672.0
145°	361.2	391.6	464.0	574.3	635.2
147.5°	379.9	406.7	467.7	555.3	602.2
150°	392.3	416.7	470.2	542.7	582.3
152.5°	404.8	426.7	470.2	532.6	564.8
155°	423.5	438.7	473.3	520.6	544.9
157.5°	438.4	453.0	477.0	512.9	530.6
160°	448.4	460.6	479.5	507.9	523.1
162.5°	455.9	468.0	482.0	505.3	515.6
165°	470.2	476.3	485.8	498.4	507.5
167.5°	478.3	483.8	488.9	495.2	500.7
170°	485.8	488.8	488.9	495.2	498.2
172.5°	488.2	493.7	491.4	492.7	495.7
175°	495.1	498.1	495.1	491.9	488.9
177.5°	495.1	497.5	495.1	495.0	492.6
180°	495.1	495.1	495.1	495.1	495.1

(END OF REPORT)