

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: P621809

Luminaire Tested: VLT-FB-075U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621809
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-100D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

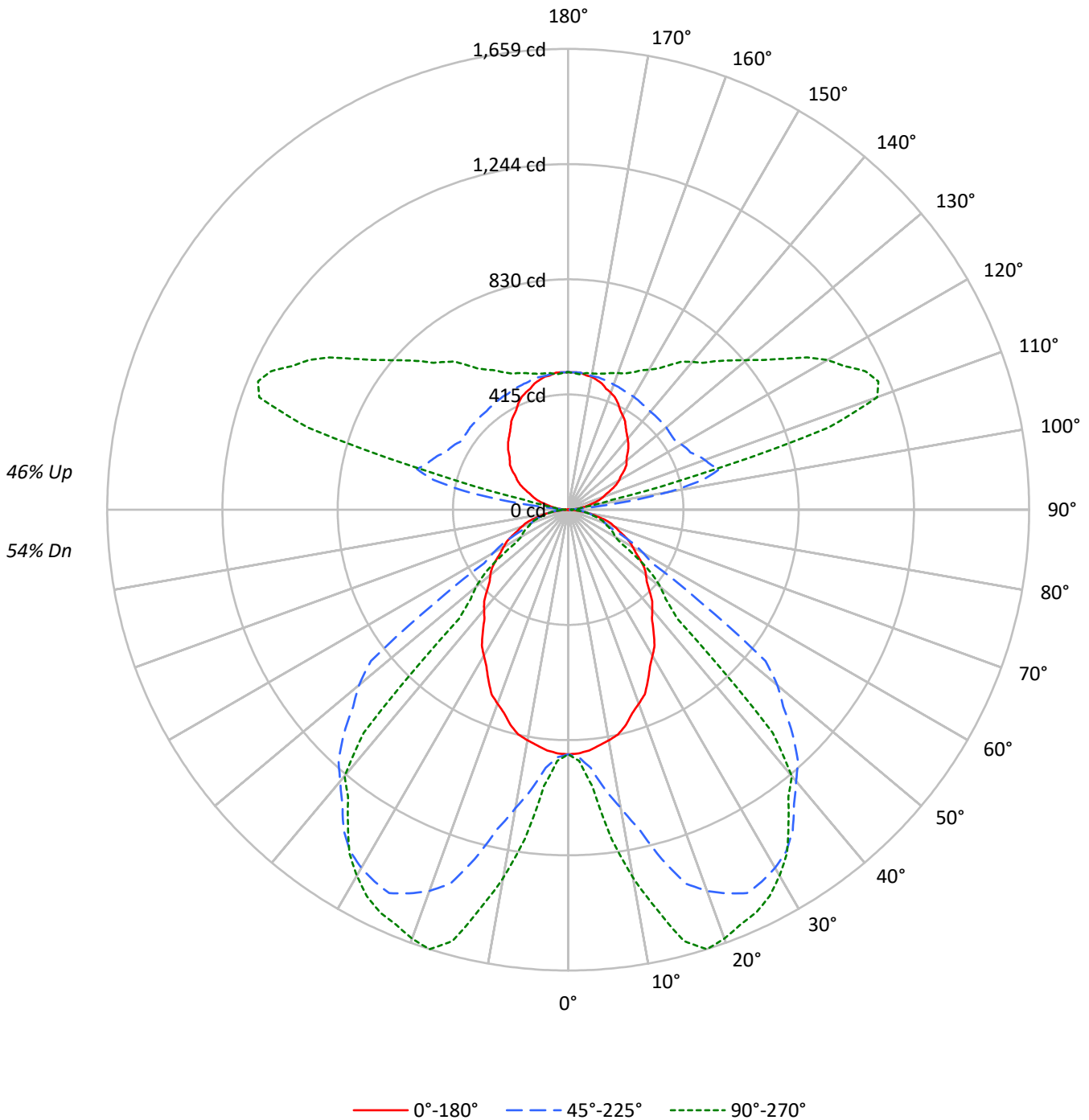
Lumens per Lamp: N/A
Luminaire Lumens: 5816.6 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 50
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54	54	54	54	
1	99	95	92	88	92	89	85	83	76	74	72	65	63	62	54	53	52	47	47	47	47	
2	91	84	78	73	84	78	73	69	68	64	61	58	55	52	48	47	45	40	40	40	40	
3	83	74	67	62	77	69	63	58	60	55	52	51	48	45	43	41	39	35	35	35	35	
4	77	66	59	53	71	62	55	50	54	49	44	46	42	39	39	36	34	31	31	31	31	
5	71	59	51	46	65	55	48	43	48	43	39	42	38	34	36	32	30	27	27	27	27	
6	65	53	45	40	60	50	43	38	44	38	34	38	33	30	32	29	26	24	24	24	24	
7	60	48	40	35	56	45	38	33	40	34	30	34	30	27	30	26	24	21	21	21	21	
8	56	44	36	31	52	41	34	30	36	31	27	32	27	24	27	24	21	19	19	19	19	
9	52	40	33	28	48	38	31	26	33	28	24	29	25	22	25	22	19	17	17	17	17	
10	49	37	30	25	45	35	28	24	31	25	22	27	22	19	23	20	17	15	15	15	15	

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	1.6
10°-20°	350.2	6.0
20°-30°	593.1	10.2
30°-40°	719.5	12.4
40°-50°	633.3	10.9
50°-60°	391.9	6.7
60°-70°	212.5	3.7
70°-80°	121.0	2.1
80°-90°	40.7	0.7
90°-100°	60.9	1.0
100°-110°	433.8	7.5
110°-120°	588.9	10.1
120°-130°	479.3	8.2
130°-140°	385.5	6.6
140°-150°	303.9	5.2
150°-160°	222.2	3.8
160°-170°	138.0	2.4
170°-180°	47.1	0.8
0°-30°	1038.2	17.8
0°-40°	1757.7	30.2
0°-60°	2782.9	47.8
0°-90°	3157.1	54.3
90°-120°	1083.5	18.6
90°-150°	2252.2	38.7
90°-180°	2659.0	45.7
0°-180°	5816.6	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	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°	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	17.6	17.0	14.7	13.3
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)