

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: P621792

Luminaire Tested: VLT-FB-050U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621792
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-125D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

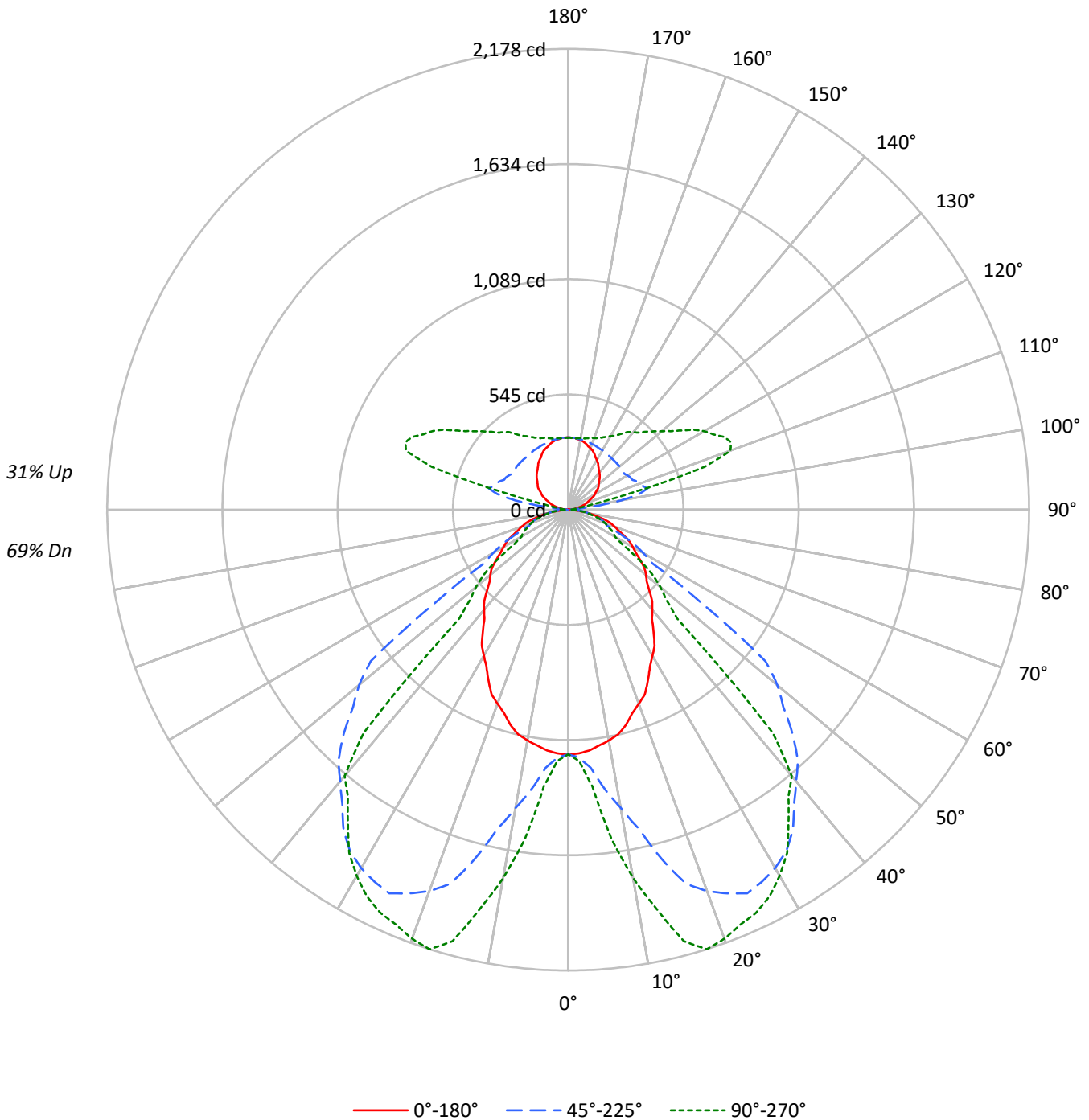
Lumens per Lamp: N/A
Luminaire Lumens: 5977.6 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 53.3
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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	69	
1	103	99	95	92	97	94	90	87	84	81	79	75	73	71	67	65	64	64	64	64	60	
2	94	87	81	76	89	83	78	73	75	70	67	67	64	61	60	57	55	55	55	55	52	
3	87	78	70	65	82	74	67	62	66	61	57	60	56	53	54	51	48	48	48	48	45	
4	80	69	61	55	75	66	59	53	60	54	50	54	49	46	48	45	42	42	42	42	39	
5	74	62	54	48	69	59	52	46	54	48	43	49	44	40	44	40	37	37	37	37	34	
6	68	56	48	42	64	53	46	41	49	43	38	44	39	35	40	36	33	33	33	33	30	
7	63	51	43	37	60	48	41	36	44	38	34	40	35	31	37	32	29	29	29	29	27	
8	59	46	38	33	55	44	37	32	40	34	30	37	32	28	34	29	26	26	26	26	24	
9	55	42	35	30	52	41	34	29	37	31	27	34	29	25	31	27	24	24	24	24	22	
10	51	39	32	27	48	37	31	26	34	28	24	31	26	23	29	25	22	22	22	22	20	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8298	8298	8298
5°	8228	8821	9447
10°	8066	10430	12879
15°	7823	12712	15681
20°	7449	14646	16477
25°	7053	15837	16638
30°	6602	16203	16554
35°	6157	16205	15895
40°	5791	15698	15390
45°	5510	15218	7371
50°	5353	14406	6350
55°	5205	9645	5028
60°	5060	5870	3643
65°	4948	4469	3792
70°	4882	3896	3896
75°	4758	4040	3909
80°	4178	4079	3885
85°	3096	4257	3680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15218 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	2.1
10°-20°	459.8	7.7
20°-30°	778.8	13.0
30°-40°	944.7	15.8
40°-50°	831.6	13.9
50°-60°	514.6	8.6
60°-70°	279.0	4.7
70°-80°	158.9	2.7
80°-90°	52.7	0.9
90°-100°	41.9	0.7
100°-110°	298.9	5.0
110°-120°	405.8	6.8
120°-130°	330.3	5.5
130°-140°	265.7	4.4
140°-150°	209.4	3.5
150°-160°	153.1	2.6
160°-170°	95.1	1.6
170°-180°	32.4	0.5
0°-30°	1363.3	22.8
0°-40°	2308.0	38.6
0°-60°	3654.2	61.1
0°-90°	4144.8	69.3
90°-120°	746.7	12.5
90°-150°	1552.1	26.0
90°-180°	1833.0	30.7
0°-180°	5977.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1142	1179	1225	1277	1312	108
15°	1053	1214	1711	2023	2111	295
25°	891	1219	2000	2060	2101	409
35°	703	1130	1850	1824	1814	440
45°	543	929	1500	1271	726	421
55°	416	648	771	446	402	372
65°	291	365	263	226	223	289
75°	172	151	146	143	141	179
85°	38	51	52	47	45	46
90°	0	2	4	6	6	2
95°	17	32	17	19	24	19
105°	66	102	388	496	328	70
115°	118	143	335	696	813	117
125°	170	193	315	552	652	151
135°	210	233	318	454	522	162
145°	249	270	320	396	438	156
155°	292	302	326	359	376	134
165°	324	328	335	344	350	91
175°	341	343	341	339	337	32
180°	341	341	341	341	341	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.4	1156.4	1156.4	1156.4	1156.4
2.5°	1152.6	1165.5	1171.4	1182.8	1188.4
5°	1142.3	1179.1	1224.6	1277.0	1311.5
7.5°	1124.0	1189.7	1333.6	1499.3	1570.1
10°	1107.0	1196.7	1431.4	1671.0	1767.5
12.5°	1088.2	1203.6	1546.1	1836.5	1934.8
15°	1053.0	1213.8	1711.1	2023.3	2110.7
17.5°	1007.4	1220.2	1854.0	2122.3	2178.3
20°	975.4	1221.3	1917.9	2134.7	2157.7
22.5°	945.3	1222.5	1963.1	2104.5	2123.8
25°	890.8	1219.4	2000.2	2059.9	2101.3
27.5°	836.3	1205.8	1981.9	2030.0	2059.9
30°	796.8	1192.1	1955.5	1995.5	1997.8
32.5°	759.2	1169.2	1916.0	1927.7	1924.5
35°	702.8	1130.2	1849.8	1823.7	1814.5
37.5°	650.1	1078.5	1752.9	1711.0	1708.7
40°	618.2	1041.0	1675.8	1636.0	1642.9
42.5°	588.1	998.1	1606.3	1559.6	1430.5
45°	542.9	929.0	1499.6	1270.9	726.3
47.5°	503.9	850.5	1378.7	680.8	625.2
50°	479.5	796.6	1290.4	598.7	568.8
52.5°	455.0	746.4	1175.7	538.3	499.2
55°	416.0	648.1	770.9	445.6	401.9
57.5°	378.9	544.8	471.0	346.3	299.0
60°	352.6	483.6	409.0	279.1	253.8
62.5°	328.1	433.4	348.8	247.6	242.6
65°	291.4	365.0	263.2	225.6	223.3
67.5°	257.1	299.9	200.7	203.0	200.7
70°	232.7	253.4	185.7	188.0	185.7
72.5°	210.1	208.7	170.6	169.2	166.9
75°	171.6	150.9	145.7	143.3	141.0
77.5°	131.2	111.4	117.5	115.1	112.8
80°	101.1	94.2	98.7	96.3	94.0
82.5°	74.7	77.0	79.9	75.6	73.3
85°	37.6	51.4	51.7	47.0	44.7
87.5°	11.3	22.7	21.5	18.2	16.3
90°	0.0	2.1	4.3	6.4	6.4
92.5°	5.2	7.2	9.4	13.3	15.0
95°	17.2	31.9	17.2	19.4	23.6
97.5°	30.5	61.1	126.2	37.2	32.2
100°	40.8	76.4	253.2	74.5	49.4
102.5°	51.1	88.4	342.5	196.7	107.7
105°	66.5	102.2	388.4	496.2	328.3
107.5°	82.0	108.8	370.8	722.1	676.4
110°	92.3	117.5	360.5	758.8	815.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.6	127.8	350.2	737.4	832.6
115°	118.0	143.2	334.8	695.8	813.3
117.5°	133.9	158.7	330.9	650.8	771.7
120°	145.9	169.0	324.0	616.6	742.5
122.5°	154.5	179.3	315.4	587.2	703.0
125°	169.5	192.6	315.4	551.6	652.4
127.5°	182.0	205.5	315.9	510.4	609.9
130°	188.8	214.0	317.6	482.8	577.2
132.5°	197.4	222.6	317.6	470.4	548.1
135°	210.3	233.4	317.6	454.3	521.5
137.5°	221.0	245.8	317.6	436.5	494.0
140°	229.6	252.7	317.6	426.1	478.5
142.5°	238.2	259.6	319.3	414.0	463.1
145°	248.9	269.9	319.7	395.8	437.8
147.5°	261.8	280.3	322.3	382.7	415.0
150°	270.4	287.2	324.0	374.0	401.3
152.5°	279.0	294.1	324.0	367.0	389.3
155°	291.8	302.3	326.2	358.7	375.5
157.5°	302.1	312.2	328.8	353.5	365.7
160°	309.0	317.4	330.5	350.0	360.5
162.5°	314.2	322.6	332.2	348.2	355.4
165°	324.0	328.2	334.8	343.5	349.8
167.5°	329.6	333.4	336.9	341.3	345.1
170°	334.8	336.9	336.9	341.2	343.3
172.5°	336.5	340.3	338.6	339.5	341.6
175°	341.2	343.3	341.2	339.0	336.9
177.5°	341.2	342.9	341.2	341.2	339.5
180°	341.2	341.2	341.2	341.2	341.2

(END OF REPORT)