

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: P621852

Luminaire Tested: VLT-FB-100U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621852
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-100U-075D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

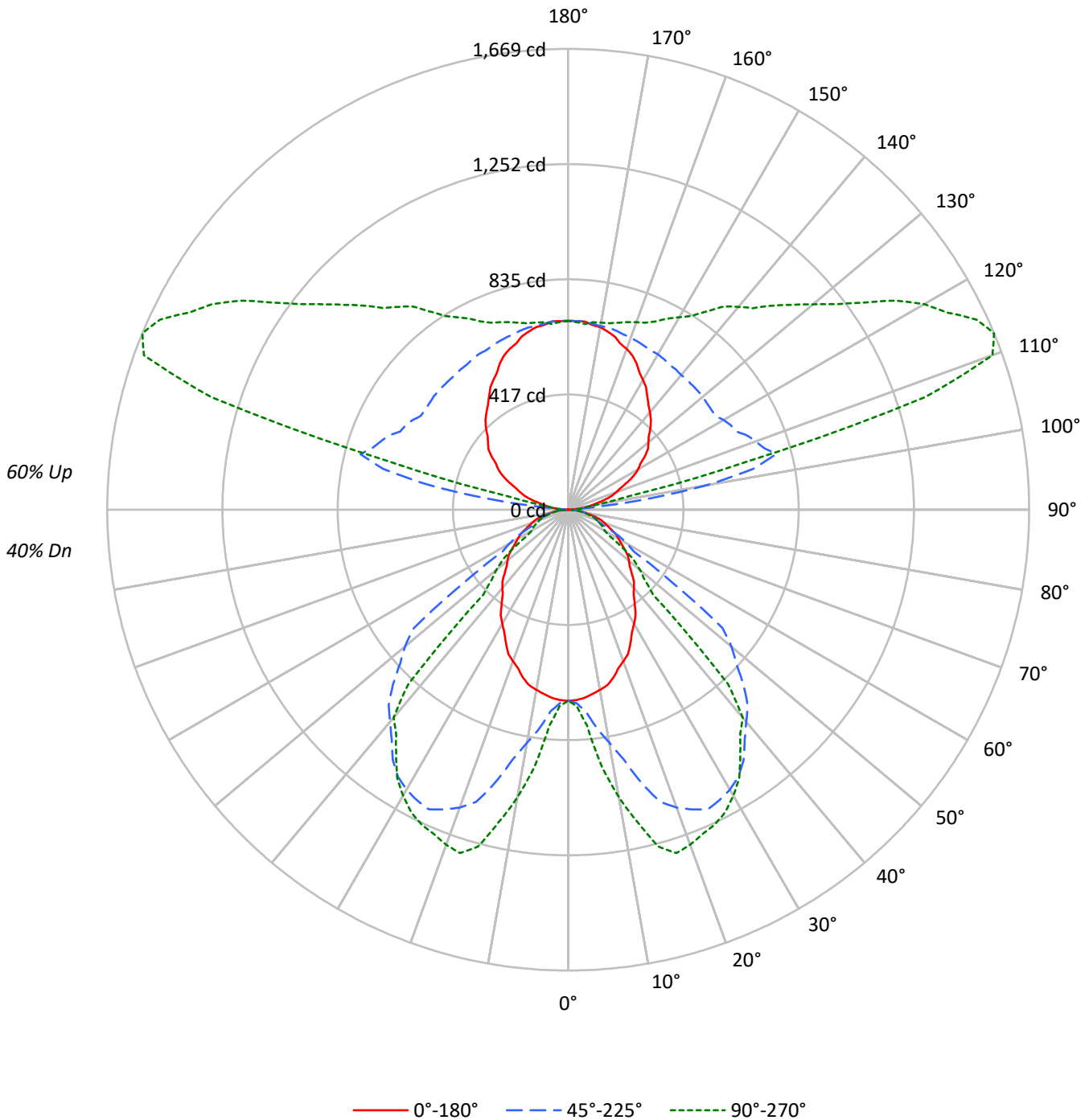
Lumens per Lamp: N/A
Luminaire Lumens: 6155.5 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 50.6
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40				
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	42	41	35				
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	38	36	35	30				
3	80	71	65	59	73	66	60	55	54	50	46	44	41	38	34	32	30	26				
4	74	63	56	50	67	58	52	47	48	44	40	39	36	33	31	28	27	23				
5	68	57	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20				
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	18				
7	58	46	38	33	53	42	36	31	35	30	27	29	25	22	23	20	18	16				
8	54	42	34	29	49	38	32	27	32	27	24	27	23	20	21	18	16	14				
9	50	38	31	26	45	35	29	24	30	25	21	24	21	18	20	17	15	13				
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4925	5279	5655
10°	4828	6242	7709
15°	4682	7608	9385
20°	4458	8766	9862
25°	4222	9479	9958
30°	3952	9699	9908
35°	3685	9698	9514
40°	3466	9396	9211
45°	3298	9108	4411
50°	3204	8622	3800
55°	3115	5773	3010
60°	3028	3513	2180
65°	2961	2676	2268
70°	2923	2331	2331
75°	2847	2418	2340
80°	2500	2442	2327
85°	1853	2544	2198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9108 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.2
10°-20°	275.2	4.5
20°-30°	466.1	7.6
30°-40°	565.5	9.2
40°-50°	497.7	8.1
50°-60°	308.0	5.0
60°-70°	167.0	2.7
70°-80°	95.1	1.5
80°-90°	32.7	0.5
90°-100°	84.1	1.4
100°-110°	599.2	9.7
110°-120°	813.4	13.2
120°-130°	662.0	10.8
130°-140°	532.5	8.7
140°-150°	419.8	6.8
150°-160°	306.9	5.0
160°-170°	190.7	3.1
170°-180°	65.0	1.1
0°-30°	816.0	13.3
0°-40°	1381.4	22.4
0°-60°	2187.1	35.5
0°-90°	2481.9	40.3
90°-120°	1496.6	24.3
90°-150°	3111.0	50.5
90°-180°	3674.0	59.7
0°-180°	6155.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	684	706	733	764	785	65
15°	630	726	1024	1211	1263	176
25°	533	730	1197	1233	1258	245
35°	421	676	1107	1092	1086	264
45°	325	556	898	761	435	252
55°	249	388	461	267	241	223
65°	174	218	158	135	134	173
75°	103	90	87	86	84	107
85°	22	31	31	28	27	27
90°	0	4	9	13	13	2
95°	34	64	34	39	47	38
105°	133	205	778	994	658	141
115°	237	287	671	1395	1630	235
125°	340	386	632	1106	1308	302
135°	422	468	637	911	1045	324
145°	499	541	641	793	877	313
155°	585	606	654	719	753	269
165°	650	658	671	688	701	182
175°	684	688	684	680	675	65
180°	684	684	684	684	684	



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CATALOG NUMBER: VLT-FB-100U-075D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692.1	692.1	692.1	692.1	692.1
2.5°	689.9	697.6	701.1	708.0	711.3
5°	683.7	705.7	732.9	764.4	785.0
7.5°	672.7	712.1	798.2	897.4	939.7
10°	662.6	716.2	856.7	1000.1	1057.9
12.5°	651.3	720.4	925.4	1099.2	1158.1
15°	630.2	726.5	1024.1	1211.0	1263.3
17.5°	603.0	730.3	1109.7	1270.3	1303.8
20°	583.8	731.0	1147.9	1277.7	1291.4
22.5°	565.8	731.7	1175.0	1259.6	1271.2
25°	533.2	729.9	1197.2	1232.9	1257.7
27.5°	500.5	721.7	1186.2	1215.0	1232.9
30°	476.9	713.5	1170.5	1194.4	1195.8
32.5°	454.4	699.8	1146.8	1153.8	1151.9
35°	420.6	676.5	1107.1	1091.5	1086.0
37.5°	389.1	645.5	1049.2	1024.1	1022.7
40°	370.0	623.1	1003.0	979.2	983.3
42.5°	352.0	597.4	961.4	933.5	856.2
45°	325.0	556.1	897.5	760.7	434.7
47.5°	301.6	509.0	825.2	407.5	374.2
50°	287.0	476.8	772.3	358.3	340.4
52.5°	272.4	446.8	703.7	322.2	298.8
55°	249.0	387.9	461.4	266.7	240.6
57.5°	226.8	326.1	281.9	207.3	178.9
60°	211.0	289.4	244.8	167.1	151.9
62.5°	196.4	259.4	208.8	148.2	145.2
65°	174.4	218.5	157.6	135.0	133.6
67.5°	153.9	179.5	120.1	121.5	120.1
70°	139.3	151.7	111.1	112.5	111.1
72.5°	125.8	124.9	102.1	101.3	99.9
75°	102.7	90.3	87.2	85.8	84.4
77.5°	78.5	66.7	70.3	68.9	67.5
80°	60.5	56.4	59.1	57.6	56.3
82.5°	44.7	46.1	47.8	45.3	43.9
85°	22.5	30.8	30.9	28.1	26.7
87.5°	6.8	14.2	14.1	12.7	11.6
90°	0.0	4.2	8.6	12.9	12.9
92.5°	10.3	14.5	18.9	26.7	30.1
95°	34.4	63.8	34.4	38.9	47.3
97.5°	61.1	122.5	252.9	74.6	64.5
100°	81.7	153.2	507.5	149.4	98.9
102.5°	102.4	177.2	686.5	394.2	215.9
105°	133.3	204.8	778.5	994.5	658.1
107.5°	164.3	218.1	743.2	1447.4	1355.7
110°	184.9	235.4	722.6	1520.9	1634.4



TEST NUMBER: P621852

CATALOG NUMBER: VLT-FB-100U-075D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.6	256.1	701.9	1477.9	1668.8
115°	236.6	287.0	671.0	1394.6	1630.1
117.5°	268.4	318.0	663.2	1304.4	1546.7
120°	292.5	338.7	649.5	1235.9	1488.2
122.5°	309.7	359.3	632.3	1176.9	1409.0
125°	339.8	386.0	632.3	1105.7	1307.5
127.5°	364.7	411.8	633.1	1023.0	1222.4
130°	378.5	429.0	636.6	967.7	1157.0
132.5°	395.7	446.2	636.6	942.9	1098.5
135°	421.5	467.8	636.6	910.6	1045.2
137.5°	443.0	492.6	636.6	874.9	990.1
140°	460.2	506.5	636.6	854.0	959.1
142.5°	477.4	520.3	640.0	829.8	928.2
145°	498.9	541.0	640.9	793.3	877.4
147.5°	524.7	561.7	646.0	767.1	831.8
150°	541.9	575.6	649.5	749.6	804.3
152.5°	559.1	589.4	649.5	735.6	780.2
155°	585.0	606.0	653.8	719.0	752.7
157.5°	605.6	625.8	658.9	708.5	732.9
160°	619.4	636.2	662.4	701.6	722.6
162.5°	629.7	646.5	665.8	698.0	712.3
165°	649.5	657.9	671.0	688.5	701.1
167.5°	660.7	668.2	675.3	684.0	691.6
170°	671.0	675.2	675.3	684.0	688.2
172.5°	674.4	682.0	678.7	680.5	684.7
175°	683.9	688.1	683.9	679.5	675.3
177.5°	683.9	687.2	683.9	683.8	680.4
180°	683.9	683.9	683.9	683.9	683.9

(END OF REPORT)