

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: P621798

Luminaire Tested: VLT-FB-075U-050D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621798
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-940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

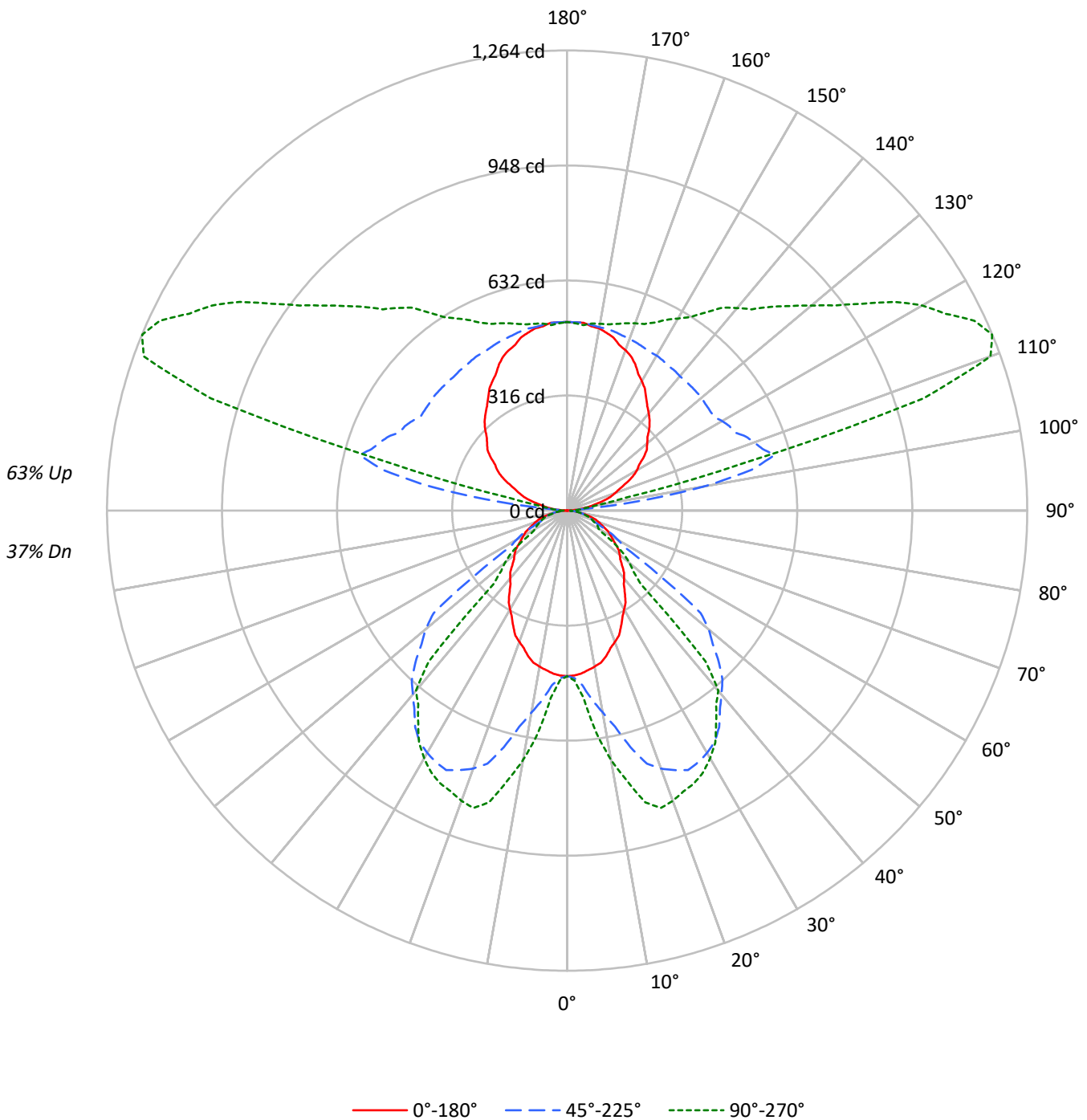
Lumens per Lamp: N/A
Luminaire Lumens: 4412.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	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°	3263	3263	3263
5°	3235	3468	3715
10°	3172	4101	5064
15°	3076	4998	6165
20°	2929	5759	6479
25°	2774	6227	6542
30°	2596	6371	6509
35°	2420	6371	6250
40°	2277	6172	6051
45°	2167	5983	2898
50°	2104	5665	2496
55°	2047	3792	1977
60°	1989	2308	1432
65°	1946	1757	1491
70°	1920	1532	1532
75°	1871	1589	1539
80°	1641	1603	1529
85°	1219	1671	1449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5983 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	1.1
10°-20°	180.8	4.1
20°-30°	306.2	6.9
30°-40°	371.5	8.4
40°-50°	327.0	7.4
50°-60°	202.3	4.6
60°-70°	109.7	2.5
70°-80°	62.5	1.4
80°-90°	21.6	0.5
90°-100°	63.7	1.4
100°-110°	453.7	10.3
110°-120°	615.9	14.0
120°-130°	501.3	11.4
130°-140°	403.2	9.1
140°-150°	317.8	7.2
150°-160°	232.4	5.3
160°-170°	144.4	3.3
170°-180°	49.2	1.1
0°-30°	536.0	12.1
0°-40°	907.5	20.6
0°-60°	1436.8	32.6
0°-90°	1630.6	37.0
90°-120°	1133.2	25.7
90°-150°	2355.5	53.4
90°-180°	2781.0	63.0
0°-180°	4412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	449	464	482	502	516	42
15°	414	477	673	796	830	116
25°	350	480	786	810	826	161
35°	276	444	727	717	714	173
45°	214	365	590	500	286	166
55°	164	255	303	175	158	146
65°	115	144	104	89	88	114
75°	68	59	57	56	56	70
85°	15	20	20	18	18	18
90°	0	3	6	10	10	2
95°	26	48	26	30	36	29
105°	101	155	589	753	498	106
115°	179	217	508	1056	1234	178
125°	257	292	479	837	990	229
135°	319	354	482	689	791	246
145°	378	410	485	601	664	237
155°	443	459	495	544	570	203
165°	492	498	508	521	531	138
175°	518	521	518	514	511	49
180°	518	518	518	518	518	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.7	454.7	454.7	454.7	454.7
2.5°	453.2	458.3	460.6	465.1	467.3
5°	449.1	463.6	481.5	502.1	515.7
7.5°	441.9	467.8	524.4	589.5	617.3
10°	435.3	470.5	562.8	657.0	695.0
12.5°	427.9	473.3	607.9	722.1	760.8
15°	414.0	477.3	672.8	795.6	829.9
17.5°	396.1	479.8	729.0	834.5	856.5
20°	383.5	480.2	754.1	839.4	848.4
22.5°	371.7	480.7	771.9	827.5	835.1
25°	350.3	479.5	786.5	809.9	826.2
27.5°	328.8	474.1	779.3	798.2	809.9
30°	313.3	468.7	768.9	784.6	785.5
32.5°	298.5	459.7	753.4	758.0	756.7
35°	276.3	444.4	727.3	717.1	713.5
37.5°	255.6	424.1	689.2	672.8	671.9
40°	243.1	409.3	658.9	643.3	646.0
42.5°	231.2	392.4	631.6	613.2	562.4
45°	213.5	365.3	589.6	499.7	285.6
47.5°	198.1	334.4	542.1	267.7	245.8
50°	188.5	313.2	507.4	235.4	223.6
52.5°	178.9	293.5	462.3	211.7	196.3
55°	163.6	254.8	303.1	175.2	158.0
57.5°	149.0	214.2	185.2	136.2	117.6
60°	138.6	190.1	160.8	109.8	99.8
62.5°	129.0	170.4	137.1	97.4	95.4
65°	114.6	143.5	103.5	88.7	87.8
67.5°	101.1	117.9	78.9	79.8	78.9
70°	91.5	99.6	73.0	73.9	73.0
72.5°	82.6	82.1	67.1	66.5	65.6
75°	67.5	59.3	57.3	56.4	55.5
77.5°	51.6	43.8	46.2	45.3	44.4
80°	39.7	37.0	38.8	37.9	37.0
82.5°	29.4	30.3	31.4	29.7	28.8
85°	14.8	20.2	20.3	18.5	17.6
87.5°	4.4	9.4	9.4	8.6	7.9
90°	0.0	3.2	6.5	9.8	9.8
92.5°	7.8	11.0	14.3	20.2	22.8
95°	26.1	48.3	26.1	29.5	35.8
97.5°	46.2	92.7	191.5	56.5	48.8
100°	61.9	116.0	384.3	113.1	74.9
102.5°	77.5	134.2	519.7	298.5	163.5
105°	101.0	155.1	589.4	753.0	498.3
107.5°	124.4	165.2	562.7	1095.9	1026.5
110°	140.0	178.2	547.1	1151.5	1237.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	155.7	193.9	531.5	1119.0	1263.5
115°	179.1	217.3	508.0	1055.9	1234.2
117.5°	203.2	240.8	502.2	987.6	1171.1
120°	221.4	256.5	491.7	935.7	1126.8
122.5°	234.5	272.0	478.7	891.1	1066.8
125°	257.3	292.3	478.7	837.2	990.0
127.5°	276.2	311.8	479.4	774.6	925.5
130°	286.6	324.8	482.0	732.7	876.0
132.5°	299.6	337.8	482.0	713.9	831.7
135°	319.1	354.2	482.0	689.4	791.3
137.5°	335.4	373.0	482.0	662.4	749.7
140°	348.5	383.5	482.0	646.6	726.2
142.5°	361.5	394.0	484.6	628.3	702.8
145°	377.8	409.6	485.2	600.7	664.3
147.5°	397.3	425.3	489.1	580.8	629.8
150°	410.3	435.8	491.7	567.6	609.0
152.5°	423.4	446.3	491.7	557.0	590.7
155°	442.9	458.8	495.0	544.4	569.9
157.5°	458.5	473.8	498.9	536.4	554.9
160°	468.9	481.7	501.5	531.2	547.1
162.5°	476.8	489.5	504.1	528.5	539.3
165°	491.7	498.1	508.0	521.3	530.8
167.5°	500.2	505.9	511.3	517.9	523.7
170°	508.0	511.2	511.3	517.9	521.0
172.5°	510.6	516.4	513.9	515.3	518.4
175°	517.8	521.0	517.8	514.5	511.3
177.5°	517.8	520.3	517.8	517.7	515.2
180°	517.8	517.8	517.8	517.8	517.8

(END OF REPORT)