

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P621466

Luminaire Tested: VLT-F-075U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621466
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-F-075U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

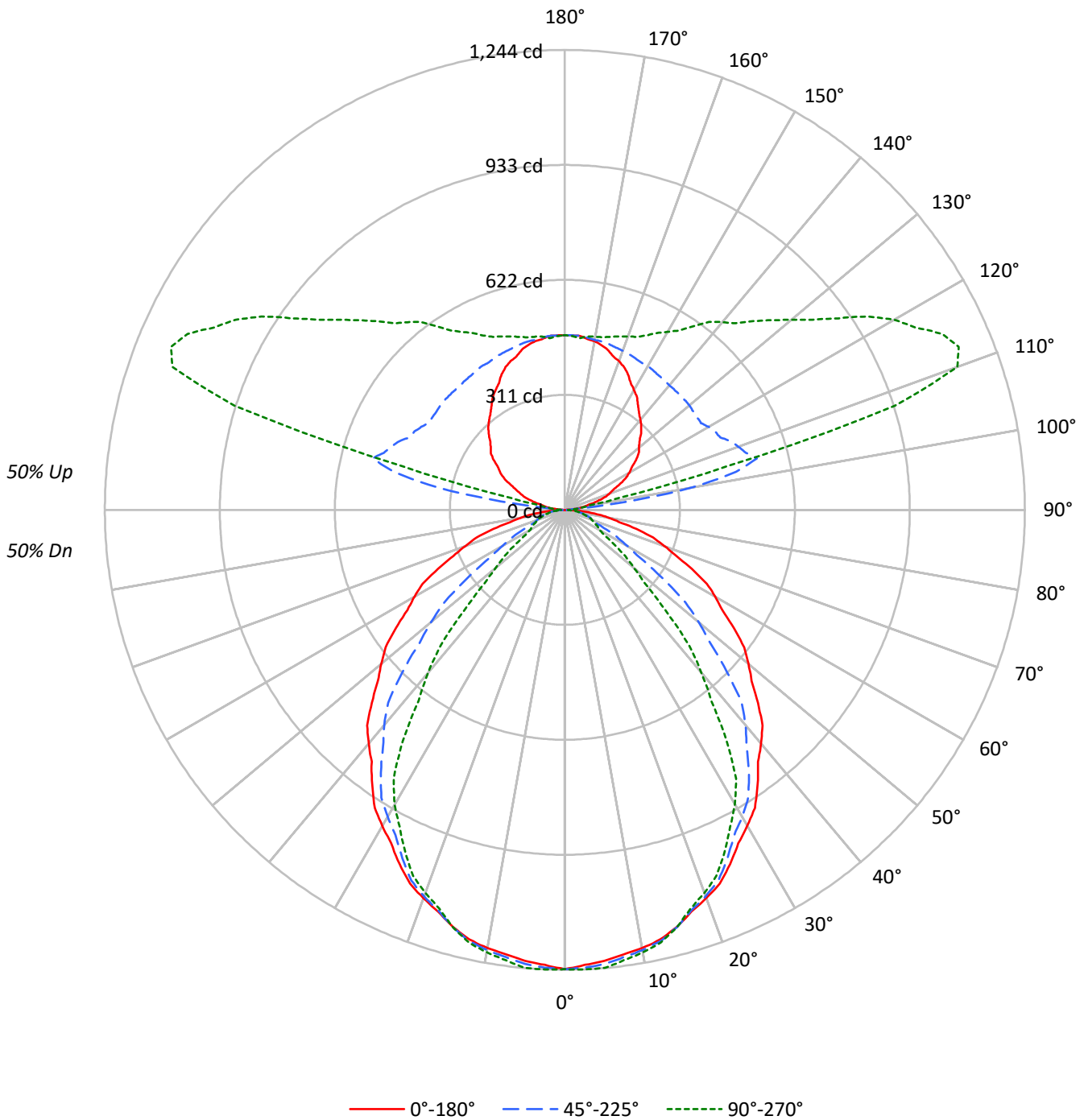
Lumens per Lamp: N/A
Luminaire Lumens: 5072.3 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.4
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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	91	88	91	87	84	81	74	72	70	62	60	59	51	50	49	43
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	45	44	42	38
3	83	74	67	61	76	69	63	58	59	54	50	49	46	43	41	39	37	33
4	76	66	58	53	70	61	55	50	53	48	44	45	41	38	37	34	32	29
5	70	59	51	46	65	55	48	43	47	42	38	40	36	33	34	31	29	25
6	65	53	45	40	60	50	43	38	43	38	34	37	33	29	31	28	25	23
7	60	48	41	35	55	45	38	33	39	34	30	34	29	26	28	25	23	20
8	56	44	36	31	52	41	34	30	36	30	27	31	27	24	26	23	21	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	24	21	19	17
10	49	37	30	25	45	35	28	24	30	25	22	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8916	8916	8916
5°	8821	8885	8959
10°	8772	8810	8857
15°	8677	8687	8687
20°	8538	8498	8419
25°	8374	8232	8090
30°	8178	7945	7626
35°	7960	7601	6690
40°	7731	7117	5386
45°	7489	6304	3908
50°	7236	5273	2708
55°	6985	4015	2023
60°	6724	2781	1528
65°	6429	1983	1569
70°	6005	1670	1616
75°	5551	1708	1636
80°	4827	1802	1698
85°	3911	2009	1688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	2.3
10°-20°	329.2	6.5
20°-30°	478.9	9.4
30°-40°	529.8	10.4
40°-50°	454.9	9.0
50°-60°	314.9	6.2
60°-70°	187.7	3.7
70°-80°	92.5	1.8
80°-90°	29.6	0.6
90°-100°	58.1	1.1
100°-110°	413.9	8.2
110°-120°	561.9	11.1
120°-130°	457.3	9.0
130°-140°	367.8	7.3
140°-150°	290.0	5.7
150°-160°	212.0	4.2
160°-170°	131.7	2.6
170°-180°	44.9	0.9
0°-30°	925.2	18.2
0°-40°	1455.0	28.7
0°-60°	2224.8	43.9
0°-90°	2534.6	50.0
90°-120°	1033.9	20.4
90°-150°	2149.1	42.4
90°-180°	2538.0	50.0
0°-180°	5072.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1224	1243	1234	1232	1244	116
15°	1168	1183	1169	1163	1169	329
25°	1058	1065	1040	1022	1022	487
35°	909	906	868	798	764	568
45°	738	726	621	449	385	569
55°	558	534	321	184	162	499
65°	379	305	117	94	92	375
75°	200	87	62	60	59	211
85°	48	24	24	22	20	55
90°	0	3	6	9	9	3
95°	24	44	24	27	33	27
105°	92	142	538	687	455	97
115°	163	198	464	963	1126	162
125°	235	267	437	764	903	209
135°	291	323	440	629	722	224
145°	345	374	443	548	606	216
155°	404	419	452	497	520	186
165°	449	454	464	476	484	126
175°	472	475	472	469	466	45
180°	472	472	472	472	472	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.5	1242.5	1242.5	1242.5	1242.5
2.5°	1232.2	1246.2	1239.4	1239.5	1244.5
5°	1224.5	1243.3	1233.5	1232.4	1243.7
7.5°	1213.2	1230.5	1220.4	1219.1	1228.8
10°	1203.9	1220.3	1209.1	1206.7	1215.5
12.5°	1190.6	1206.9	1194.7	1190.3	1199.1
15°	1168.0	1183.1	1169.3	1163.0	1169.3
17.5°	1139.5	1152.1	1136.4	1126.5	1130.3
20°	1118.0	1130.5	1112.8	1098.8	1102.5
22.5°	1094.3	1104.9	1085.1	1069.0	1071.7
25°	1057.6	1065.2	1039.7	1021.7	1021.7
27.5°	1016.8	1021.3	991.7	972.8	967.5
30°	987.0	989.5	958.8	936.6	920.3
32.5°	956.2	957.7	922.9	887.1	861.8
35°	908.7	906.2	867.7	797.6	763.7
37.5°	858.2	852.6	807.1	700.4	650.0
40°	825.3	817.8	759.8	631.5	575.0
42.5°	791.4	780.9	707.5	560.5	498.0
45°	738.0	725.5	621.2	449.1	385.1
47.5°	685.1	668.6	532.9	347.9	292.9
50°	648.2	630.6	472.3	286.5	242.6
52.5°	611.2	593.6	410.7	240.5	205.6
55°	558.3	534.5	320.9	184.3	161.7
57.5°	504.4	470.3	239.0	143.6	126.0
60°	468.5	423.3	193.8	119.1	106.5
62.5°	433.6	376.3	158.9	103.9	101.4
65°	378.6	304.6	116.8	93.7	92.4
67.5°	326.3	232.4	86.8	84.4	83.2
70°	286.2	183.3	79.6	78.3	77.0
72.5°	250.3	140.3	72.4	71.1	69.8
75°	200.2	87.3	61.6	60.3	59.0
77.5°	149.7	55.0	50.8	49.5	48.3
80°	116.8	45.3	43.6	42.3	41.1
82.5°	88.0	36.6	35.4	34.1	32.9
85°	47.5	23.6	24.4	21.8	20.5
87.5°	16.4	12.0	12.5	11.0	10.0
90°	0.0	2.9	5.9	8.9	8.9
92.5°	7.1	10.0	13.1	18.5	20.8
95°	23.8	44.1	23.8	26.9	32.7
97.5°	42.2	84.6	174.7	51.5	44.6
100°	56.5	105.8	350.6	103.2	68.3
102.5°	70.7	122.4	474.2	272.3	149.2
105°	92.1	141.5	537.8	687.0	454.6
107.5°	113.5	150.7	513.4	999.9	936.5
110°	127.8	162.6	499.2	1050.6	1129.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.0	176.9	484.9	1020.9	1152.8
115°	163.4	198.3	463.5	963.4	1126.1
117.5°	185.4	219.7	458.2	901.1	1068.4
120°	202.0	234.0	448.7	853.7	1028.0
122.5°	213.9	248.2	436.8	813.0	973.4
125°	234.7	266.7	436.8	763.8	903.2
127.5°	252.0	284.5	437.4	706.7	844.4
130°	261.5	296.3	439.7	668.5	799.3
132.5°	273.4	308.2	439.7	651.4	758.8
135°	291.2	323.1	439.7	629.0	722.0
137.5°	306.0	340.3	439.7	604.4	684.0
140°	317.9	349.9	439.7	589.9	662.6
142.5°	329.8	359.4	442.1	573.2	641.2
145°	344.7	373.7	442.7	548.0	606.1
147.5°	362.5	388.1	446.3	529.9	574.6
150°	374.4	397.6	448.7	517.8	555.6
152.5°	386.3	407.2	448.7	508.2	539.0
155°	404.1	418.6	451.6	496.7	520.0
157.5°	418.3	432.3	455.2	489.4	506.3
160°	427.9	439.5	457.6	484.6	499.2
162.5°	435.0	446.6	459.9	482.2	492.0
165°	448.7	454.5	463.5	475.6	484.3
167.5°	456.4	461.6	466.5	472.5	477.8
170°	463.5	466.4	466.5	472.5	475.4
172.5°	465.9	471.1	468.9	470.1	473.0
175°	472.4	475.3	472.4	469.4	466.5
177.5°	472.4	474.7	472.4	472.4	470.0
180°	472.4	472.4	472.4	472.4	472.4



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.22	16.03	16.19	17.01	18.28	7.45	8.27	8.42	9.24	10.52
	3H	16.71	17.43	17.69	18.42	19.72	8.80	9.53	9.78	10.51	11.81
	4H	17.22	17.91	18.21	18.89	20.20	9.45	10.14	10.45	11.13	12.43
	6H	17.62	18.25	18.62	19.24	20.56	10.04	10.67	11.04	11.66	12.98
	8H	17.75	18.35	18.76	19.35	20.67	10.27	10.86	11.27	11.87	13.19
	12H	17.83	18.39	18.84	19.40	20.74	10.43	11.00	11.44	12.00	13.34
4H	2H	15.04	15.73	16.04	16.72	18.02	8.06	8.75	9.06	9.74	11.04
	3H	16.68	17.24	17.68	18.26	19.58	9.61	10.18	10.62	11.20	12.52
	4H	17.26	17.78	18.28	18.79	20.14	10.41	10.92	11.42	11.93	13.28
	6H	17.76	18.20	18.78	19.23	20.57	11.14	11.59	12.17	12.62	13.96
	8H	17.94	18.36	18.97	19.38	20.74	11.43	11.85	12.46	12.88	14.23
	12H	18.07	18.44	19.11	19.49	20.84	11.65	12.02	12.69	13.06	14.42
8H	4H	17.18	17.59	18.20	18.62	19.97	10.86	11.27	11.88	12.30	13.65
	6H	17.71	18.05	18.76	19.12	20.48	11.74	12.08	12.79	13.15	14.50
	8H	17.95	18.25	19.00	19.30	20.67	12.13	12.43	13.19	13.49	14.86
	12H	18.13	18.40	19.19	19.45	20.86	12.45	12.72	13.51	13.76	15.18
12H	4H	17.13	17.50	18.17	18.54	19.90	10.90	11.28	11.95	12.32	13.68
	6H	17.68	17.99	18.74	19.04	20.41	11.85	12.15	12.91	13.21	14.58
	8H	17.92	18.19	18.98	19.24	20.65	12.29	12.56	13.35	13.61	15.02