

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: P621480

Luminaire Tested: VLT-F-075U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621480
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-125D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

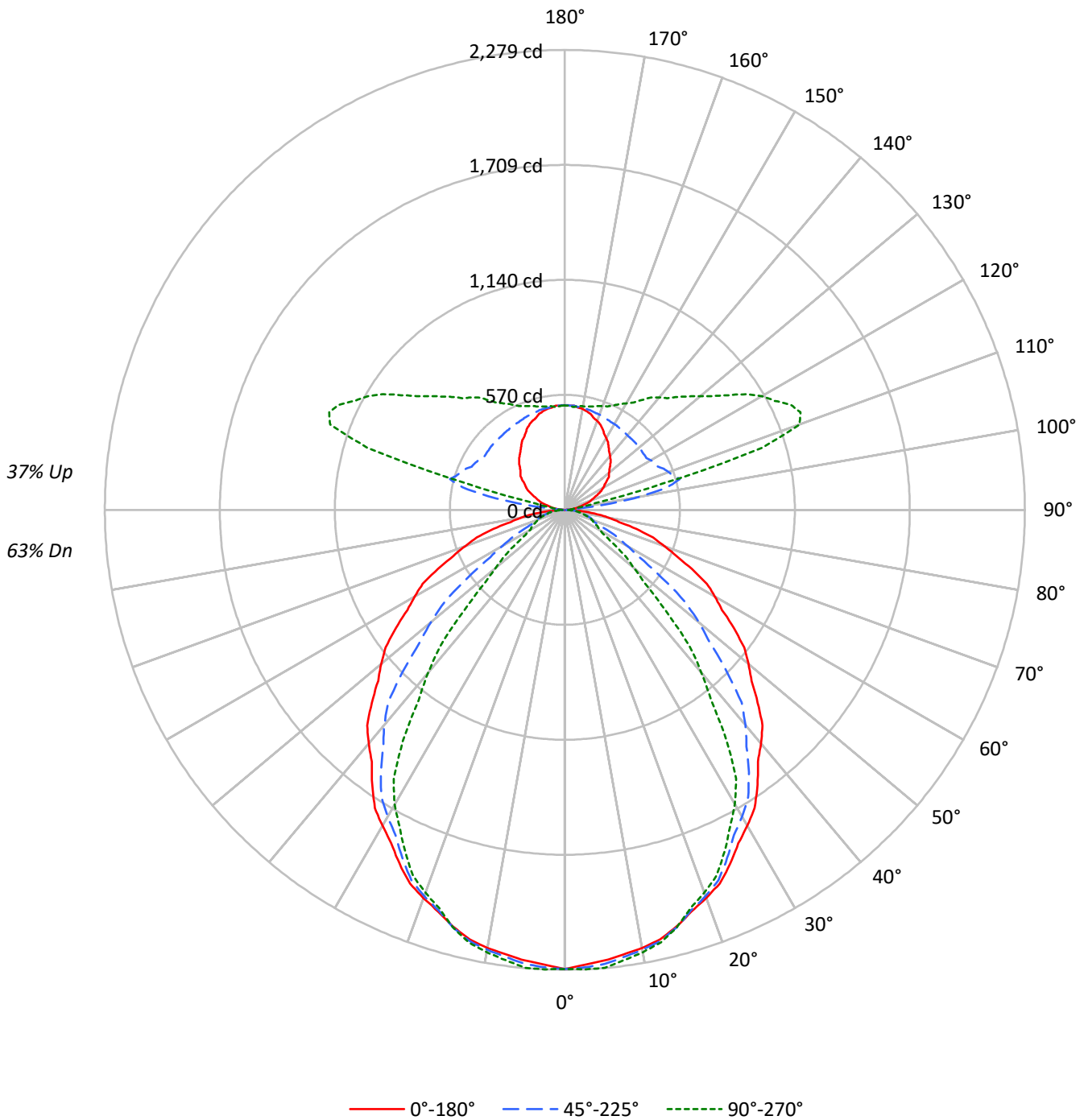
Lumens per Lamp: N/A
Luminaire Lumens: 7422.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 59.5
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



TEST NUMBER: P621480
CATALOG NUMBER: VLT-F-075U-125D-940-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621480

CATALOG NUMBER: VLT-F-075U-125D-940-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	63				63															
1	101	97	94	90	95	92	88	86	81	78	76	70	69	67	61	60	59	54				54															
2	93	86	80	75	87	81	76	72	72	68	64	63	60	58	55	53	51	47				47															
3	86	77	70	64	80	72	66	61	64	59	55	57	53	50	50	47	44	41				41															
4	79	68	61	55	74	65	58	53	58	52	48	51	47	43	45	42	39	36				36															
5	73	61	54	48	68	58	51	46	52	46	42	46	42	38	41	37	35	32				32															
6	67	56	48	42	63	53	46	40	47	41	37	42	38	34	37	34	31	28				28															
7	62	50	43	37	59	48	41	36	43	37	33	39	34	30	34	31	28	25				25															
8	58	46	39	33	55	44	37	32	40	34	30	36	31	27	32	28	25	23				23															
9	54	42	35	30	51	40	34	29	36	31	27	33	28	25	29	26	23	21				21															
10	51	39	32	27	48	37	31	26	34	28	24	30	26	23	27	24	21	19				19															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16327	16327	16327
5°	16152	16270	16406
10°	16065	16133	16219
15°	15890	15907	15907
20°	15633	15562	15418
25°	15334	15074	14813
30°	14977	14548	13964
35°	14578	13919	12251
40°	14157	13034	9864
45°	13715	11545	7156
50°	13251	9656	4959
55°	12791	7351	3706
60°	12312	5093	2800
65°	11774	3632	2873
70°	10996	3057	2958
75°	10167	3127	2997
80°	8839	3302	3108
85°	7163	3680	3096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13715 cd/sqm



TEST NUMBER: P621480

CATALOG NUMBER: VLT-F-075U-125D-940-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	2.9
10°-20°	602.9	8.1
20°-30°	877.0	11.8
30°-40°	970.2	13.1
40°-50°	833.0	11.2
50°-60°	576.8	7.8
60°-70°	343.7	4.6
70°-80°	169.3	2.3
80°-90°	53.5	0.7
90°-100°	63.7	0.9
100°-110°	453.7	6.1
110°-120°	615.9	8.3
120°-130°	501.3	6.8
130°-140°	403.2	5.4
140°-150°	317.8	4.3
150°-160°	232.4	3.1
160°-170°	144.4	1.9
170°-180°	49.2	0.7
0°-30°	1694.2	22.8
0°-40°	2664.4	35.9
0°-60°	4074.1	54.9
0°-90°	4640.6	62.5
90°-120°	1133.2	15.3
90°-150°	2355.5	31.7
90°-180°	2781.0	37.5
0°-180°	7422.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2242	2277	2259	2257	2278	213
15°	2139	2166	2141	2130	2141	602
25°	1937	1950	1904	1871	1871	891
35°	1664	1660	1589	1460	1398	1040
45°	1352	1328	1138	822	705	1043
55°	1022	979	588	338	296	914
65°	693	558	214	172	169	687
75°	367	160	113	110	108	387
85°	87	43	45	40	38	101
90°	0	3	6	10	10	5
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	

TEST NUMBER: P621480

CATALOG NUMBER: VLT-F-075U-125D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2275.2	2275.2	2275.2	2275.2	2275.2
2.5°	2256.4	2282.1	2269.5	2269.8	2278.9
5°	2242.3	2276.8	2258.7	2256.9	2277.5
7.5°	2221.6	2253.3	2234.8	2232.3	2250.3
10°	2204.7	2234.6	2214.1	2209.7	2225.8
12.5°	2180.2	2210.1	2187.8	2179.7	2195.7
15°	2138.9	2166.4	2141.2	2129.7	2141.2
17.5°	2086.7	2109.7	2081.0	2062.9	2069.8
20°	2047.2	2070.2	2037.8	2012.1	2019.0
22.5°	2004.0	2023.3	1987.0	1957.5	1962.6
25°	1936.7	1950.5	1903.8	1870.9	1870.9
27.5°	1862.0	1870.3	1815.9	1781.4	1771.7
30°	1807.5	1812.1	1755.7	1715.1	1685.2
32.5°	1751.0	1753.8	1689.9	1624.5	1578.1
35°	1664.1	1659.5	1588.9	1460.5	1398.5
37.5°	1571.5	1561.4	1477.9	1282.6	1190.2
40°	1511.3	1497.5	1391.4	1156.4	1053.0
42.5°	1449.3	1430.0	1295.5	1026.4	912.0
45°	1351.5	1328.5	1137.6	822.3	705.1
47.5°	1254.6	1224.3	975.9	637.0	536.4
50°	1187.0	1154.8	864.9	524.7	444.2
52.5°	1119.3	1087.1	752.1	440.4	376.5
55°	1022.4	978.8	587.6	337.5	296.2
57.5°	923.7	861.2	437.6	263.0	230.8
60°	857.9	775.2	354.9	218.1	195.1
62.5°	794.0	689.2	291.0	190.3	185.7
65°	693.4	557.8	213.9	171.5	169.2
67.5°	597.5	425.6	158.9	154.6	152.3
70°	524.1	335.7	145.7	143.3	141.0
72.5°	458.3	257.0	132.6	130.2	127.9
75°	366.7	159.8	112.8	110.4	108.1
77.5°	274.1	100.8	93.1	90.7	88.4
80°	213.9	82.9	79.9	77.5	75.2
82.5°	161.2	67.0	64.9	62.5	60.2
85°	87.0	43.3	44.7	39.9	37.6
87.5°	30.1	21.5	22.0	18.8	17.0
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

TEST NUMBER: P621480

CATALOG NUMBER: VLT-F-075U-125D-940-UNV-STD-W-4

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



TEST NUMBER: P621480

CATALOG NUMBER: VLT-F-075U-125D-940-UNV-STD-W-4

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	18.43	19.35	19.28	20.21	21.30	10.66	11.58	11.51	12.45	13.53
	3H	19.93	20.75	20.79	21.62	22.74	12.02	12.84	12.89	13.72	14.83
	4H	20.44	21.22	21.32	22.10	23.22	12.68	13.45	13.56	14.33	15.46
	6H	20.84	21.55	21.74	22.44	23.58	13.27	13.98	14.16	14.87	16.00
	8H	20.98	21.65	21.88	22.56	23.69	13.49	14.17	14.40	15.08	16.21
	12H	21.06	21.70	21.96	22.60	23.76	13.66	14.31	14.57	15.21	16.37
4H	2H	18.26	19.04	19.15	19.92	21.04	11.29	12.06	12.17	12.94	14.07
	3H	19.91	20.55	20.80	21.46	22.60	12.84	13.48	13.74	14.40	15.54
	4H	20.50	21.08	21.41	21.99	23.16	13.64	14.22	14.55	15.13	16.30
	6H	21.00	21.50	21.92	22.43	23.60	14.38	14.88	15.30	15.82	16.98
	8H	21.18	21.65	22.11	22.58	23.76	14.68	15.14	15.60	16.07	17.25
	12H	21.32	21.74	22.26	22.68	23.87	14.89	15.32	15.84	16.26	17.45
8H	4H	20.42	20.89	21.35	21.82	23.00	14.10	14.57	15.02	15.50	16.67
	6H	20.96	21.34	21.91	22.31	23.49	14.98	15.37	15.93	16.34	17.52
	8H	21.19	21.53	22.15	22.50	23.69	15.38	15.72	16.34	16.68	17.88
	12H	21.38	21.69	22.35	22.64	23.88	15.70	16.00	16.66	16.95	18.20
12H	4H	20.37	20.79	21.32	21.74	22.92	14.15	14.57	15.09	15.52	16.70
	6H	20.93	21.27	21.89	22.23	23.43	15.10	15.44	16.06	16.40	17.60
	8H	21.17	21.48	22.14	22.43	23.67	15.54	15.84	16.50	16.80	18.04