

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: P621476

Luminaire Tested: VLT-F-075U-125D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621476
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-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

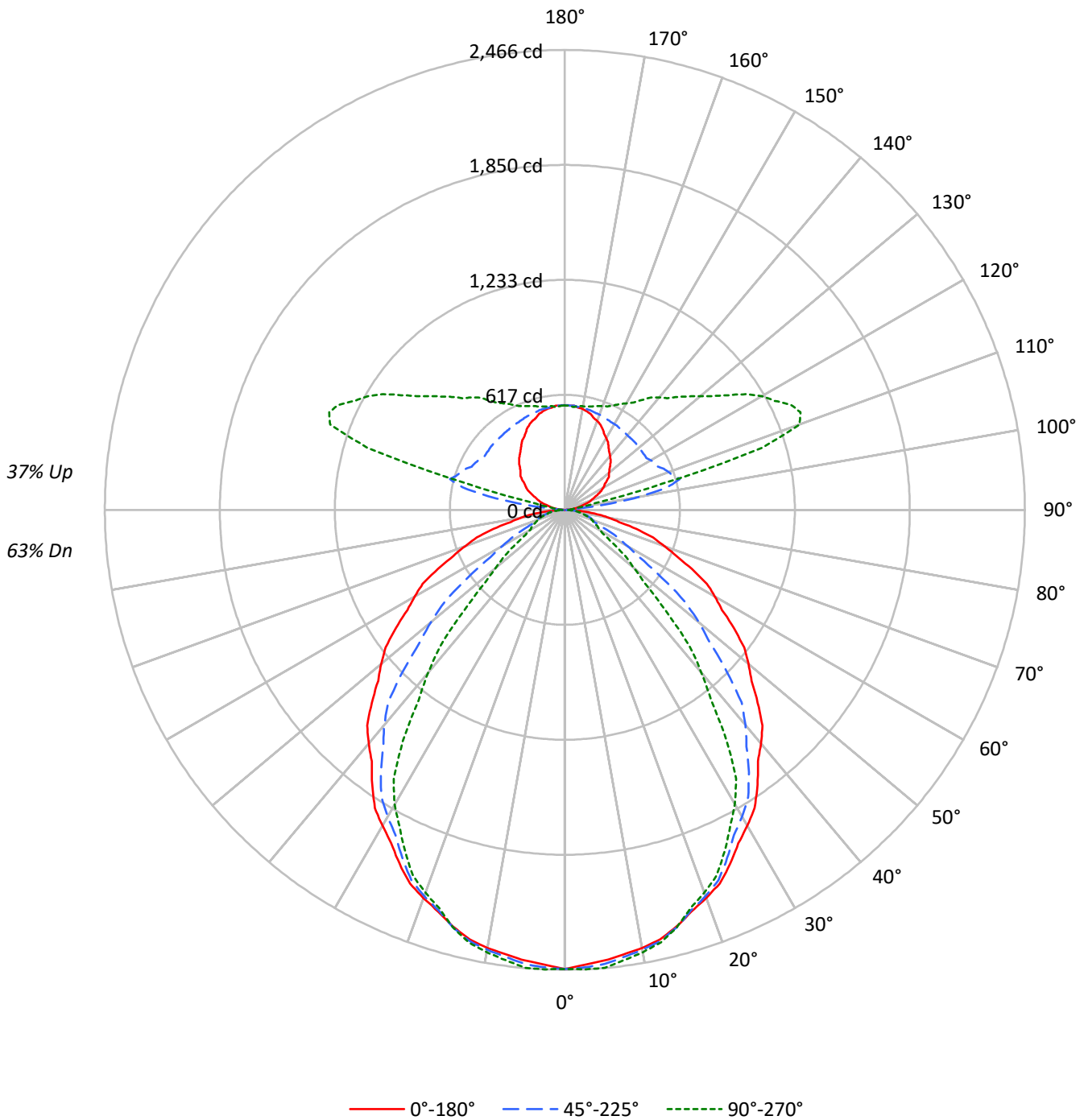
Lumens per Lamp: N/A
Luminaire Lumens: 8031.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

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



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Luminous Intensity Polar Plot





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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	0	
RCR																			
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	63	
1	101	97	94	90	95	92	88	86	81	78	76	70	69	67	61	60	59	54	
2	93	86	80	75	87	81	76	72	72	68	64	63	60	58	55	53	51	47	
3	86	77	70	64	80	72	66	61	64	59	55	57	53	50	50	47	44	41	
4	79	68	61	55	74	65	58	53	58	52	48	51	47	43	45	42	39	36	
5	73	61	54	48	68	58	51	46	52	46	42	46	42	38	41	37	35	32	
6	67	56	48	42	63	53	46	40	47	41	37	42	38	34	37	34	31	28	
7	62	50	43	37	59	48	41	36	43	37	33	39	34	30	34	31	28	25	
8	58	46	39	33	55	44	37	32	40	34	30	36	31	27	32	28	25	23	
9	54	42	35	30	51	40	34	29	36	31	27	33	28	25	29	26	23	21	
10	51	39	32	27	48	37	31	26	34	28	24	30	26	23	27	24	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17666	17666	17666
5°	17477	17606	17752
10°	17383	17457	17550
15°	17194	17212	17212
20°	16916	16838	16683
25°	16592	16311	16029
30°	16206	15742	15110
35°	15774	15061	13256
40°	15319	14104	10673
45°	14841	12492	7743
50°	14338	10448	5366
55°	13841	7954	4010
60°	13323	5511	3030
65°	12740	3929	3109
70°	11898	3309	3202
75°	10999	3385	3244
80°	9563	3575	3364
85°	7748	3977	3351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14841 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.0	2.9
10°-20°	652.4	8.1
20°-30°	948.9	11.8
30°-40°	1049.8	13.1
40°-50°	901.3	11.2
50°-60°	624.1	7.8
60°-70°	371.9	4.6
70°-80°	183.2	2.3
80°-90°	57.8	0.7
90°-100°	68.9	0.9
100°-110°	490.9	6.1
110°-120°	666.4	8.3
120°-130°	542.4	6.8
130°-140°	436.2	5.4
140°-150°	343.9	4.3
150°-160°	251.5	3.1
160°-170°	156.2	1.9
170°-180°	53.3	0.7
0°-30°	1833.3	22.8
0°-40°	2883.1	35.9
0°-60°	4408.4	54.9
0°-90°	5021.4	62.5
90°-120°	1226.2	15.3
90°-150°	2548.7	31.7
90°-180°	3010.0	37.5
0°-180°	8031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2462	2462	2462	2462	2462	
5°	2426	2464	2444	2442	2464	230
15°	2314	2344	2317	2304	2317	652
25°	2096	2111	2060	2024	2024	964
35°	1801	1796	1719	1580	1513	1125
45°	1462	1438	1231	890	763	1128
55°	1106	1059	636	365	320	989
65°	750	604	231	186	183	743
75°	397	173	122	120	117	419
85°	94	47	48	43	41	109
90°	0	3	7	11	11	6
95°	28	52	28	32	39	32
105°	109	168	638	815	539	115
115°	194	235	550	1143	1336	192
125°	278	316	518	906	1071	247
135°	345	383	522	746	856	266
145°	409	443	525	650	719	257
155°	479	496	536	589	617	220
165°	532	539	550	564	574	149
175°	560	564	560	557	553	53
180°	560	560	560	560	560	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2461.9	2461.9	2461.9	2461.9	2461.9
2.5°	2441.5	2469.4	2455.8	2456.0	2465.9
5°	2426.3	2463.6	2444.1	2442.0	2464.4
7.5°	2403.9	2438.2	2418.1	2415.5	2434.9
10°	2385.6	2417.9	2395.7	2391.1	2408.5
12.5°	2359.1	2391.5	2367.3	2358.5	2375.9
15°	2314.4	2344.2	2316.9	2304.5	2316.9
17.5°	2257.9	2282.8	2251.8	2232.1	2239.6
20°	2215.2	2240.0	2205.0	2177.2	2184.7
22.5°	2168.4	2189.3	2150.1	2118.1	2123.6
25°	2095.6	2110.6	2060.0	2024.4	2024.4
27.5°	2014.8	2023.7	1964.9	1927.6	1917.1
30°	1955.8	1960.7	1899.8	1855.8	1823.5
32.5°	1894.7	1897.7	1828.6	1757.8	1707.5
35°	1800.6	1795.7	1719.2	1580.4	1513.2
37.5°	1700.4	1689.5	1599.2	1387.9	1287.9
40°	1635.3	1620.4	1505.6	1251.3	1139.4
42.5°	1568.2	1547.3	1401.8	1110.6	986.8
45°	1462.4	1437.5	1230.9	889.8	763.0
47.5°	1357.6	1324.8	1056.0	689.3	580.4
50°	1284.3	1249.5	935.9	567.7	480.7
52.5°	1211.1	1176.3	813.8	476.6	407.4
55°	1106.3	1059.1	635.8	365.2	320.5
57.5°	999.5	931.9	473.6	284.6	249.7
60°	928.3	838.8	384.0	236.0	211.1
62.5°	859.1	745.7	314.9	205.9	200.9
65°	750.3	603.5	231.4	185.6	183.1
67.5°	646.5	460.5	171.9	167.3	164.8
70°	567.1	363.2	157.7	155.1	152.6
72.5°	495.9	278.1	143.4	140.8	138.4
75°	396.7	172.9	122.1	119.5	117.0
77.5°	296.5	109.0	100.7	98.1	95.6
80°	231.4	89.7	86.5	83.9	81.4
82.5°	174.5	72.5	70.2	67.6	65.1
85°	94.1	46.9	48.3	43.2	40.7
87.5°	32.6	23.3	23.8	20.4	18.4
90°	0.0	3.4	7.0	10.6	10.6
92.5°	8.5	11.9	15.5	21.9	24.7
95°	28.2	52.3	28.2	31.9	38.8
97.5°	50.0	100.3	207.2	61.1	52.9
100°	67.0	125.5	415.8	122.4	81.0
102.5°	83.9	145.2	562.4	323.0	176.9
105°	109.2	167.8	637.8	814.8	539.1
107.5°	134.6	178.7	608.9	1185.8	1110.7
110°	151.5	192.9	592.0	1246.0	1339.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.4	209.8	575.1	1210.8	1367.2
115°	193.8	235.2	549.7	1142.6	1335.5
117.5°	219.9	260.5	543.4	1068.7	1267.1
120°	239.6	277.5	532.1	1012.5	1219.2
122.5°	253.7	294.4	518.0	964.2	1154.4
125°	278.4	316.3	518.0	905.8	1071.2
127.5°	298.8	337.4	518.7	838.1	1001.5
130°	310.1	351.4	521.5	792.8	947.9
132.5°	324.2	365.5	521.5	772.5	900.0
135°	345.3	383.2	521.5	746.0	856.3
137.5°	362.9	403.6	521.5	716.8	811.2
140°	377.0	414.9	521.5	699.7	785.8
142.5°	391.1	426.3	524.3	679.8	760.4
145°	408.8	443.2	525.0	649.9	718.8
147.5°	429.9	460.2	529.3	628.4	681.5
150°	444.0	471.6	532.1	614.2	658.9
152.5°	458.1	482.9	532.1	602.7	639.2
155°	479.2	496.5	535.6	589.1	616.7
157.5°	496.1	512.7	539.8	580.5	600.4
160°	507.4	521.2	542.7	574.8	592.0
162.5°	515.9	529.7	545.5	571.8	583.5
165°	532.1	539.0	549.7	564.0	574.4
167.5°	541.2	547.5	553.2	560.4	566.6
170°	549.7	553.2	553.2	560.4	563.8
172.5°	552.5	558.7	556.0	557.5	561.0
175°	560.3	563.7	560.3	556.7	553.2
177.5°	560.3	563.0	560.3	560.2	557.5
180°	560.3	560.3	560.3	560.3	560.3



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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	18.70	19.62	19.55	20.49	21.57	10.93	11.86	11.79	12.72	13.81
	3H	20.20	21.02	21.07	21.90	23.01	12.29	13.12	13.16	13.99	15.10
	4H	20.72	21.49	21.60	22.37	23.50	12.95	13.72	13.83	14.61	15.73
	6H	21.12	21.83	22.01	22.72	23.85	13.54	14.26	14.44	15.14	16.28
	8H	21.25	21.93	22.15	22.83	23.97	13.77	14.45	14.67	15.35	16.49
	12H	21.33	21.98	22.24	22.88	24.04	13.94	14.58	14.84	15.48	16.64
4H	2H	18.54	19.31	19.43	20.20	21.32	11.56	12.33	12.45	13.22	14.34
	3H	20.18	20.82	21.08	21.74	22.87	13.12	13.76	14.01	14.67	15.81
	4H	20.77	21.36	21.68	22.27	23.43	13.92	14.50	14.82	15.41	16.57
	6H	21.27	21.77	22.19	22.71	23.87	14.66	15.16	15.58	16.09	17.26
	8H	21.46	21.93	22.38	22.85	24.03	14.95	15.42	15.88	16.35	17.53
	12H	21.59	22.01	22.53	22.96	24.14	15.17	15.59	16.11	16.54	17.72
8H	4H	20.69	21.16	21.62	22.09	23.27	14.37	14.84	15.30	15.77	16.95
	6H	21.23	21.62	22.18	22.59	23.77	15.26	15.64	16.21	16.62	17.79
	8H	21.47	21.81	22.43	22.77	23.96	15.65	15.99	16.61	16.96	18.15
	12H	21.66	21.96	22.62	22.91	24.16	15.97	16.28	16.94	17.23	18.48
12H	4H	20.65	21.07	21.59	22.02	23.20	14.43	14.85	15.37	15.79	16.98
	6H	21.20	21.55	22.16	22.51	23.70	15.37	15.71	16.33	16.68	17.87
	8H	21.45	21.75	22.41	22.70	23.95	15.82	16.12	16.78	17.07	18.32