

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: P621873

Luminaire Tested: VLT-FB-125U-075D-840-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621873
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-125U-075D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

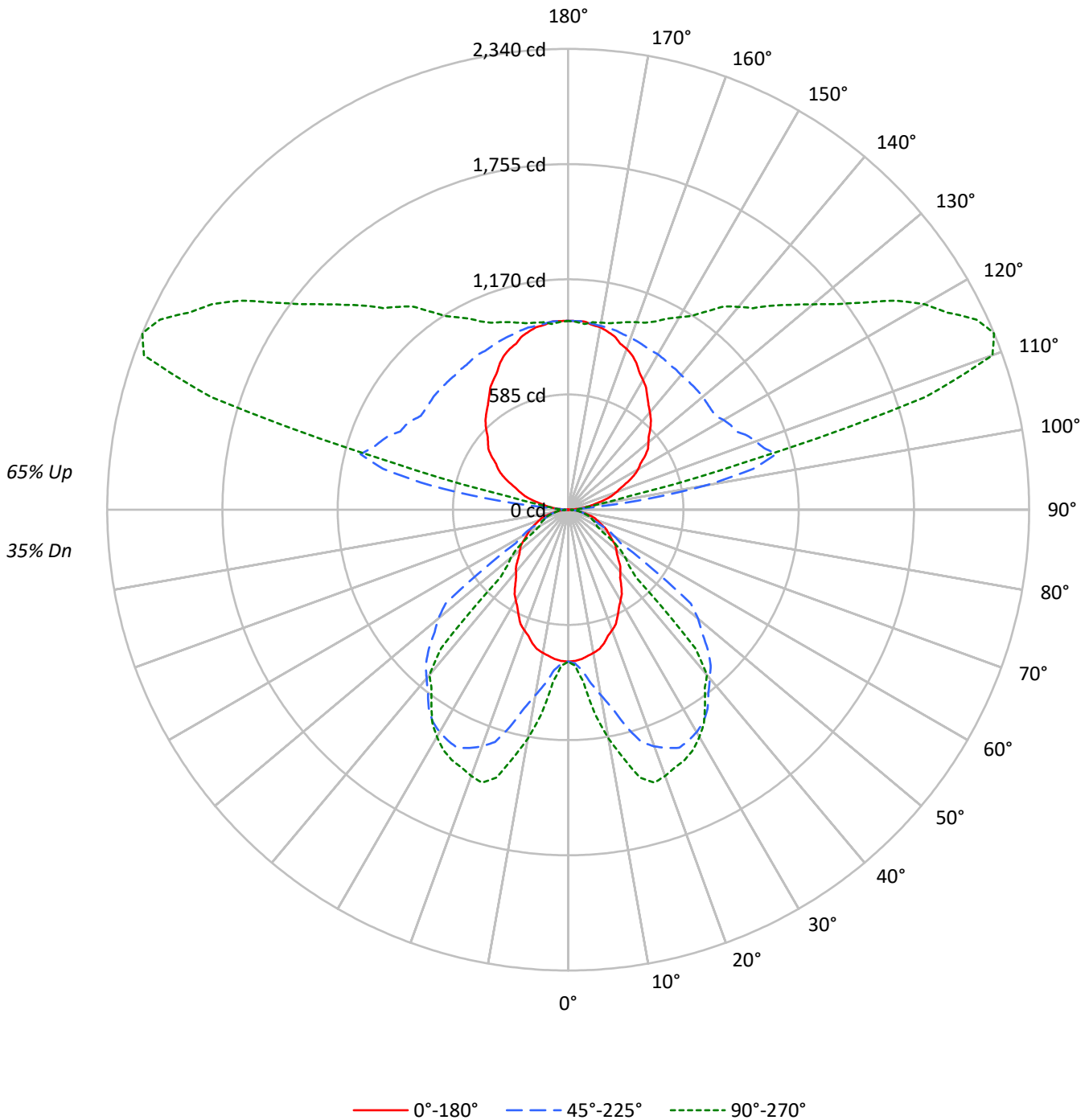
Lumens per Lamp: N/A
Luminaire Lumens: 7916.5 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
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	75	75	75	58	58	58	42	42	42	35
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	36	30
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	31	26
3	79	70	63	58	71	64	58	53	52	48	44	41	38	36	30	29	27	23
4	73	62	55	49	65	57	50	45	46	42	38	37	33	31	27	25	24	20
5	67	56	48	42	60	51	44	39	41	37	33	33	29	27	25	23	21	17
6	61	50	42	37	55	46	39	34	37	32	29	30	26	23	23	20	18	15
7	57	45	37	32	51	41	34	30	34	29	25	27	23	21	21	18	16	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	18	19	16	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	17	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5535	5535	5535
5°	5488	5883	6301
10°	5380	6957	8589
15°	5217	8478	10458
20°	4968	9769	10990
25°	4704	10562	11096
30°	4403	10807	11041
35°	4106	10807	10602
40°	3862	10470	10265
45°	3675	10149	4916
50°	3570	9608	4236
55°	3472	6433	3354
60°	3374	3915	2430
65°	3301	2982	2528
70°	3256	2597	2597
75°	3172	2695	2609
80°	2785	2719	2591
85°	2067	2841	2454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10149 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.1
10°-20°	306.7	3.9
20°-30°	519.4	6.6
30°-40°	630.1	8.0
40°-50°	554.6	7.0
50°-60°	343.2	4.3
60°-70°	186.1	2.4
70°-80°	106.0	1.3
80°-90°	36.8	0.5
90°-100°	117.9	1.5
100°-110°	840.0	10.6
110°-120°	1140.5	14.4
120°-130°	928.2	11.7
130°-140°	746.5	9.4
140°-150°	588.6	7.4
150°-160°	430.4	5.4
160°-170°	267.3	3.4
170°-180°	91.2	1.2
0°-30°	909.3	11.5
0°-40°	1539.3	19.4
0°-60°	2437.2	30.8
0°-90°	2766.0	34.9
90°-120°	2098.4	26.5
90°-150°	4361.7	55.1
90°-180°	5150.0	65.1
0°-180°	7916.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	762	786	817	852	875	72
15°	702	810	1141	1350	1408	197
25°	594	813	1334	1374	1401	273
35°	469	754	1234	1216	1210	294
45°	362	620	1000	848	484	281
55°	278	432	514	297	268	248
65°	194	243	176	150	149	193
75°	114	101	97	96	94	120
85°	25	34	34	31	30	31
90°	0	6	12	18	18	3
95°	48	90	48	54	66	54
105°	187	287	1092	1394	923	197
115°	332	402	941	1955	2286	329
125°	476	541	886	1550	1833	423
135°	591	656	892	1277	1465	455
145°	700	758	898	1112	1230	439
155°	820	850	917	1008	1055	376
165°	911	922	941	965	983	256
175°	959	965	959	953	947	91
180°	959	959	959	959	959	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.3	771.3	771.3	771.3	771.3
2.5°	768.8	777.3	781.3	788.9	792.6
5°	761.9	786.4	816.7	851.7	874.7
7.5°	749.6	793.5	889.5	999.9	1047.2
10°	738.3	798.1	954.7	1114.5	1178.8
12.5°	725.8	802.7	1031.2	1224.8	1290.5
15°	702.3	809.6	1141.2	1349.5	1407.7
17.5°	671.9	813.8	1236.5	1415.5	1452.9
20°	650.6	814.6	1279.2	1423.7	1439.1
22.5°	630.5	815.3	1309.3	1403.6	1416.5
25°	594.1	813.3	1334.0	1373.8	1401.4
27.5°	557.8	804.2	1321.8	1353.9	1373.8
30°	531.4	795.1	1304.2	1330.9	1332.5
32.5°	506.3	779.8	1277.9	1285.7	1283.6
35°	468.7	753.8	1233.7	1216.3	1210.2
37.5°	433.6	719.3	1169.1	1141.2	1139.6
40°	412.3	694.3	1117.7	1091.2	1095.8
42.5°	392.2	665.7	1071.3	1040.2	954.0
45°	362.1	619.6	1000.1	847.7	484.4
47.5°	336.1	567.2	919.6	454.1	417.0
50°	319.8	531.3	860.6	399.3	379.4
52.5°	303.5	497.8	784.1	359.0	333.0
55°	277.5	432.3	514.2	297.2	268.1
57.5°	252.7	363.4	314.1	231.0	199.4
60°	235.1	322.5	272.8	186.2	169.3
62.5°	218.8	289.0	232.6	165.1	161.8
65°	194.4	243.4	175.6	150.5	148.9
67.5°	171.5	200.0	133.9	135.4	133.9
70°	155.2	169.0	123.8	125.4	123.8
72.5°	140.1	139.2	113.8	112.8	111.3
75°	114.4	100.6	97.2	95.6	94.1
77.5°	87.5	74.3	78.4	76.8	75.2
80°	67.4	62.8	65.8	64.2	62.7
82.5°	49.8	51.4	53.3	50.4	48.9
85°	25.1	34.3	34.5	31.3	29.8
87.5°	7.5	16.1	16.2	14.9	13.7
90°	0.0	5.9	12.1	18.1	18.1
92.5°	14.5	20.4	26.5	37.5	42.2
95°	48.2	89.5	48.2	54.5	66.3
97.5°	85.6	171.7	354.6	104.6	90.5
100°	114.6	214.8	711.6	209.5	138.7
102.5°	143.5	248.5	962.4	552.7	302.7
105°	186.9	287.2	1091.5	1394.3	922.6
107.5°	230.4	305.8	1042.0	2029.3	1900.7
110°	259.3	330.1	1013.1	2132.3	2291.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	359.0	984.1	2072.1	2339.7
115°	331.7	402.4	940.7	1955.3	2285.5
117.5°	376.3	445.9	929.9	1828.9	2168.5
120°	410.1	474.9	910.6	1732.7	2086.5
122.5°	434.2	503.8	886.4	1650.0	1975.5
125°	476.4	541.2	886.4	1550.2	1833.2
127.5°	511.4	577.4	887.7	1434.3	1713.8
130°	530.7	601.4	892.5	1356.8	1622.1
132.5°	554.8	625.5	892.5	1322.0	1540.1
135°	591.0	655.8	892.5	1276.7	1465.4
137.5°	621.1	690.7	892.5	1226.6	1388.2
140°	645.2	710.1	892.5	1197.3	1344.7
142.5°	669.4	729.5	897.3	1163.4	1301.3
145°	699.5	758.5	898.5	1112.2	1230.2
147.5°	735.7	787.6	905.7	1075.5	1166.3
150°	759.8	807.0	910.6	1051.0	1127.7
152.5°	783.9	826.4	910.6	1031.4	1093.9
155°	820.1	849.6	916.6	1008.1	1055.3
157.5°	849.1	877.4	923.8	993.4	1027.6
160°	868.4	891.9	928.7	983.6	1013.1
162.5°	882.8	906.4	933.5	978.6	998.6
165°	910.6	922.4	940.7	965.2	982.9
167.5°	926.2	936.9	946.8	959.1	969.7
170°	940.7	946.6	946.8	958.9	964.8
172.5°	945.5	956.2	951.6	954.1	960.0
175°	958.8	964.7	958.8	952.6	946.8
177.5°	958.8	963.5	958.8	958.7	954.0
180°	958.8	958.8	958.8	958.8	958.8

(END OF REPORT)