

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: P621895

Luminaire Tested: VLT-FB-150U-075D-830-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621895
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-150U-075D-830-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8657.8 lumens
Efficiency: N/A
Efficacy: 123.3 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

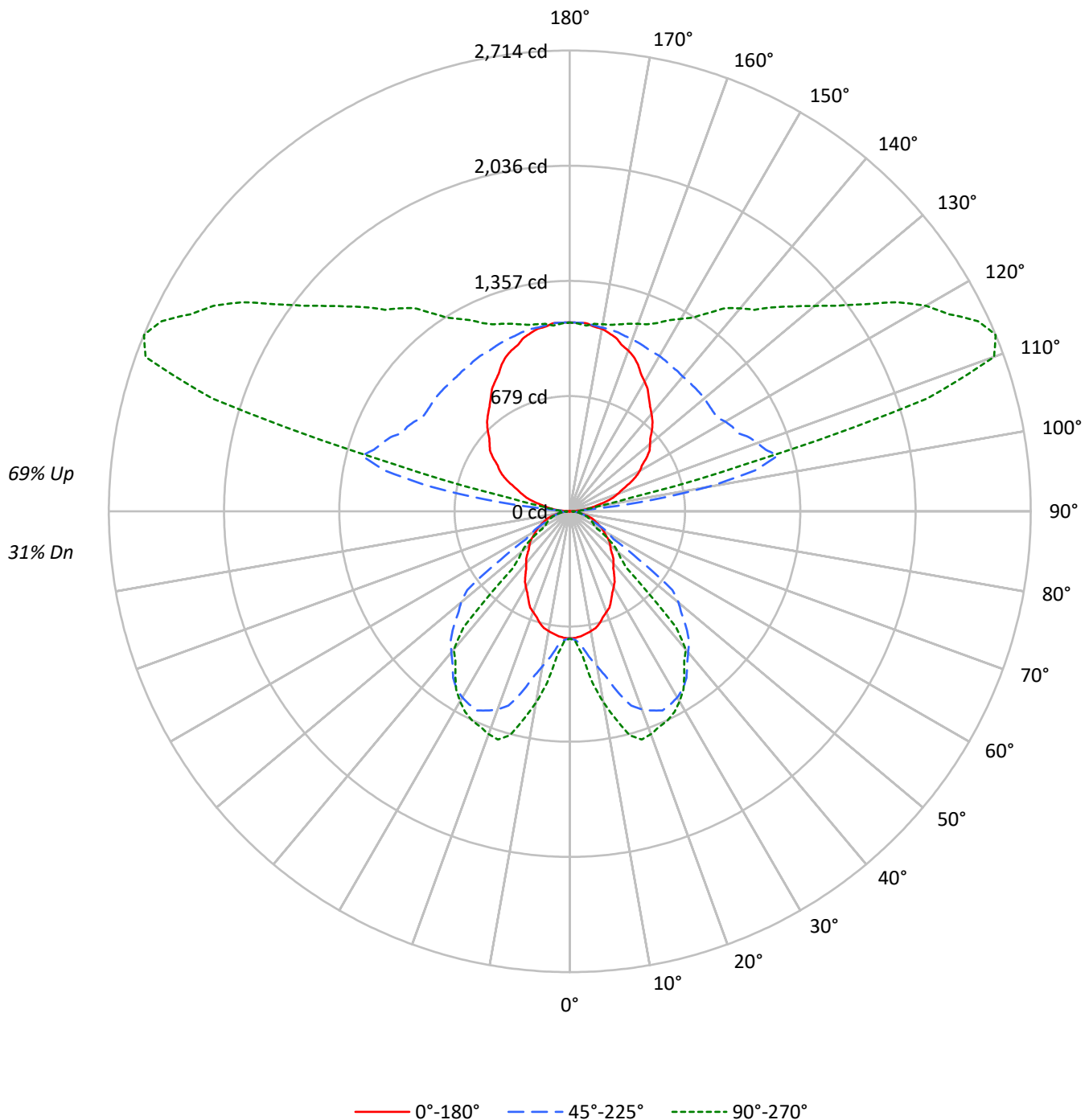
Input Watts (W): 70.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	103	103	103	103	92	92	92	92	73	73	73		55	55	55		39
1	94	90	86	83	84	81	78	75	64	62	60		49	48	46		35
2	86	79	73	68	77	71	66	62	57	53	51		43	41	39		31
3	78	70	63	57	70	63	57	52	50	46	43		39	36	34		28
4	72	62	54	49	64	56	49	45	45	40	37		35	31	29		25
5	66	55	47	42	59	50	43	38	40	35	32		31	28	25		23
6	61	49	42	36	54	45	38	33	36	31	28		28	25	22		21
7	56	44	37	31	50	40	34	29	33	28	24		25	22	20		19
8	52	40	33	28	47	37	30	26	30	25	21		23	20	17		17
9	48	37	29	25	43	33	27	23	27	22	19		21	18	16		16
10	45	33	26	22	40	30	24	20	25	20	17		20	16	14		15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5370	5370	5370
5°	5324	5708	6113
10°	5219	6749	8334
15°	5061	8225	10146
20°	4820	9477	10661
25°	4564	10247	10765
30°	4272	10484	10711
35°	3983	10485	10285
40°	3747	10158	9959
45°	3565	9847	4769
50°	3464	9321	4108
55°	3368	6240	3254
60°	3274	3798	2358
65°	3202	2892	2454
70°	3160	2520	2520
75°	3078	2615	2531
80°	2703	2641	2513
85°	2001	2758	2379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 9847 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	0.9
10°-20°	297.5	3.4
20°-30°	503.9	5.8
30°-40°	611.3	7.1
40°-50°	538.1	6.2
50°-60°	333.0	3.8
60°-70°	180.5	2.1
70°-80°	102.8	1.2
80°-90°	36.1	0.4
90°-100°	136.7	1.6
100°-110°	974.3	11.3
110°-120°	1322.8	15.3
120°-130°	1076.6	12.4
130°-140°	865.9	10.0
140°-150°	682.6	7.9
150°-160°	499.1	5.8
160°-170°	310.0	3.6
170°-180°	105.7	1.2
0°-30°	882.1	10.2
0°-40°	1493.4	17.2
0°-60°	2364.4	27.3
0°-90°	2683.9	31.0
90°-120°	2433.8	28.1
90°-150°	5059.0	58.4
90°-180°	5974.0	69.0
0°-180°	8657.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	739	763	792	826	849	70
15°	681	785	1107	1309	1366	191
25°	576	789	1294	1333	1360	265
35°	455	731	1197	1180	1174	285
45°	351	601	970	822	470	273
55°	269	419	499	288	260	241
65°	189	236	170	146	144	187
75°	111	98	94	93	91	116
85°	24	33	34	30	29	30
90°	0	7	14	21	21	3
95°	56	104	56	63	77	63
105°	217	333	1266	1617	1070	229
115°	385	467	1091	2268	2651	382
125°	553	628	1028	1798	2126	491
135°	685	761	1035	1481	1700	527
145°	811	880	1042	1290	1427	510
155°	951	985	1063	1169	1224	437
165°	1056	1070	1091	1120	1140	297
175°	1112	1119	1112	1105	1098	105
180°	1112	1112	1112	1112	1112	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.3	748.3	748.3	748.3	748.3
2.5°	745.8	754.2	758.0	765.4	768.9
5°	739.1	762.9	792.4	826.3	848.6
7.5°	727.3	769.8	862.9	970.1	1015.9
10°	716.3	774.3	926.2	1081.2	1143.7
12.5°	704.2	778.8	1000.4	1188.3	1252.0
15°	681.3	785.4	1107.2	1309.2	1365.7
17.5°	651.8	789.5	1199.6	1373.2	1409.5
20°	631.2	790.3	1241.0	1381.3	1396.1
22.5°	611.7	791.0	1270.2	1361.7	1374.2
25°	576.4	789.1	1294.2	1332.9	1359.6
27.5°	541.1	780.2	1282.4	1313.5	1332.9
30°	515.6	771.3	1265.3	1291.2	1292.7
32.5°	491.2	756.5	1239.8	1247.4	1245.3
35°	454.7	731.3	1196.9	1180.0	1174.1
37.5°	420.7	697.9	1134.2	1107.1	1105.7
40°	400.0	673.6	1084.4	1058.6	1063.1
42.5°	380.5	645.8	1039.3	1009.2	925.6
45°	351.3	601.1	970.3	822.4	469.9
47.5°	326.1	550.3	892.1	440.5	404.5
50°	310.3	515.5	834.9	387.4	368.0
52.5°	294.4	483.0	760.7	348.3	323.0
55°	269.2	419.4	498.8	288.3	260.1
57.5°	245.2	352.5	304.8	224.1	193.5
60°	228.1	312.9	264.6	180.6	164.3
62.5°	212.3	280.4	225.7	160.2	157.0
65°	188.6	236.2	170.3	146.0	144.5
67.5°	166.4	194.0	129.9	131.4	129.9
70°	150.6	163.9	120.1	121.6	120.1
72.5°	136.0	135.1	110.4	109.5	108.0
75°	111.0	97.6	94.3	92.7	91.3
77.5°	84.9	72.1	76.0	74.5	73.0
80°	65.4	60.9	63.9	62.3	60.8
82.5°	48.4	49.9	51.7	48.9	47.5
85°	24.3	33.3	33.5	30.4	28.9
87.5°	7.3	15.8	16.2	15.1	13.9
90°	0.0	6.8	14.0	21.0	21.0
92.5°	16.8	23.6	30.8	43.5	49.0
95°	56.0	103.8	56.0	63.3	76.9
97.5°	99.3	199.2	411.3	121.3	104.9
100°	132.9	249.2	825.3	242.9	160.9
102.5°	166.5	288.2	1116.3	641.1	351.1
105°	216.8	333.1	1266.0	1617.2	1070.1
107.5°	267.2	354.7	1208.6	2353.7	2204.6
110°	300.8	382.8	1175.0	2473.2	2657.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	334.3	416.4	1141.5	2403.3	2713.8
115°	384.7	466.8	1091.1	2267.9	2650.8
117.5°	436.4	517.1	1078.5	2121.2	2515.2
120°	475.6	550.8	1056.1	2009.7	2420.0
122.5°	503.6	584.3	1028.2	1913.8	2291.3
125°	552.6	627.8	1028.2	1798.0	2126.3
127.5°	593.1	669.7	1029.6	1663.6	1987.8
130°	615.5	697.6	1035.2	1573.7	1881.5
132.5°	643.5	725.5	1035.2	1533.3	1786.3
135°	685.4	760.7	1035.2	1480.8	1699.6
137.5°	720.4	801.1	1035.2	1422.7	1610.1
140°	748.4	823.6	1035.2	1388.8	1559.7
142.5°	776.4	846.1	1040.8	1349.3	1509.4
145°	811.3	879.7	1042.2	1290.1	1426.8
147.5°	853.3	913.5	1050.5	1247.4	1352.7
150°	881.3	936.0	1056.1	1219.0	1307.9
152.5°	909.3	958.5	1056.1	1196.3	1268.8
155°	951.2	985.4	1063.1	1169.3	1224.0
157.5°	984.8	1017.6	1071.5	1152.2	1191.8
160°	1007.2	1034.5	1077.1	1140.8	1175.0
162.5°	1024.0	1051.3	1082.7	1135.0	1158.3
165°	1056.1	1069.8	1091.1	1119.6	1140.1
167.5°	1074.3	1086.6	1098.1	1112.4	1124.7
170°	1091.1	1098.0	1098.1	1112.3	1119.1
172.5°	1096.7	1109.0	1103.7	1106.7	1113.5
175°	1112.1	1118.9	1112.1	1104.9	1098.1
177.5°	1112.1	1117.6	1112.1	1112.0	1106.5
180°	1112.1	1112.1	1112.1	1112.1	1112.1

(END OF REPORT)