

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: P621824

Luminaire Tested: VLT-FB-0U-075D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621824
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-19)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FB-0U-075D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

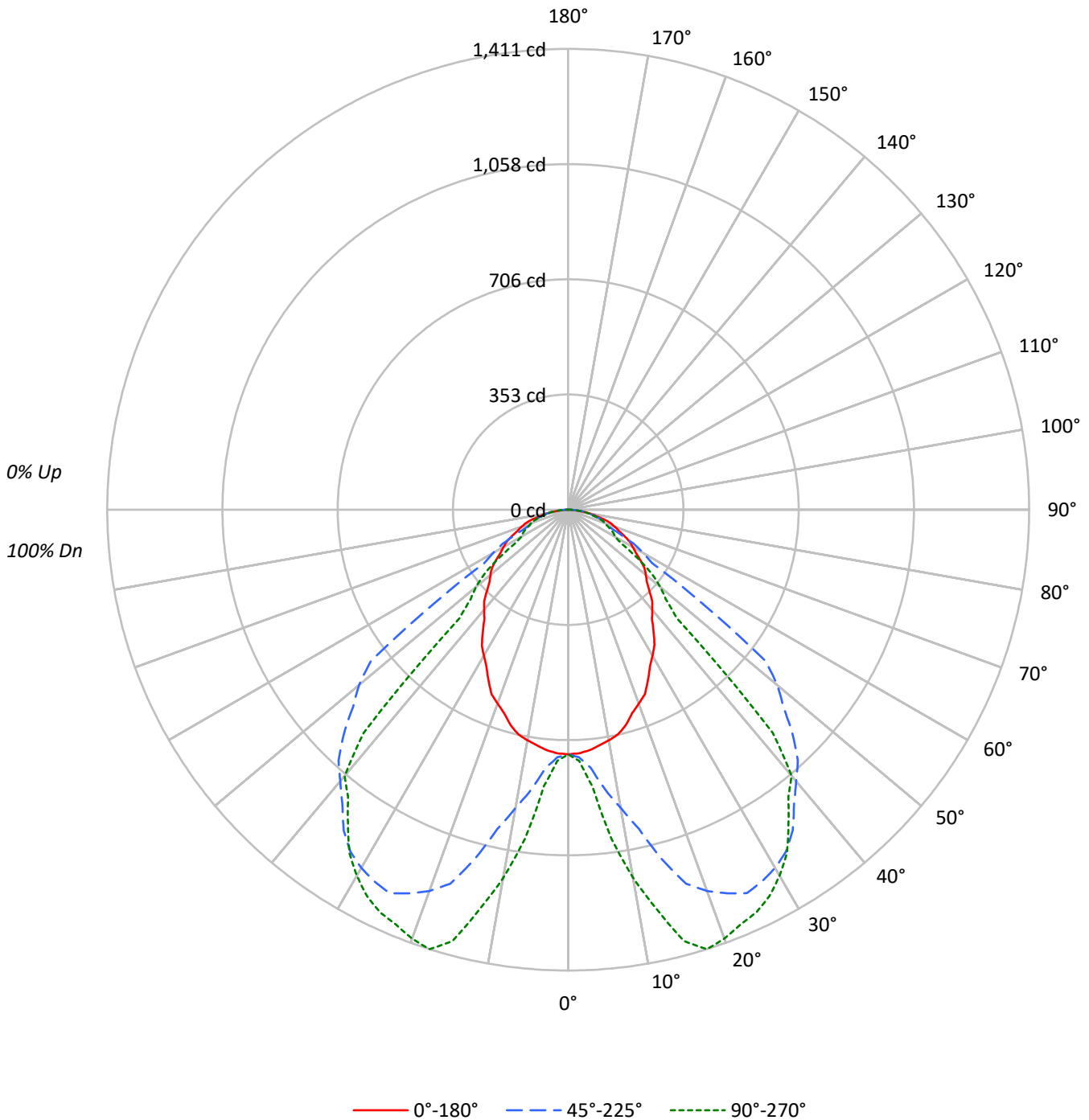
Lumens per Lamp: N/A
Luminaire Lumens: 2683.9 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100									100																			
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87									87																			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75									75																			
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	65									65																			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56									56																			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49									49																			
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46	44									44																			
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41	39									39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35									35																			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31									31																			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28									28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5374	5374	5374
5°	5329	5713	6119
10°	5225	6755	8341
15°	5067	8233	10156
20°	4824	9485	10671
25°	4568	10257	10775
30°	4276	10494	10721
35°	3987	10495	10295
40°	3750	10167	9967
45°	3568	9856	4774
50°	3466	9330	4113
55°	3370	6247	3257
60°	3277	3802	2359
65°	3206	2895	2455
70°	3162	2524	2524
75°	3080	2617	2531
80°	2707	2641	2517
85°	2009	2758	2379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.0
10°-20°	297.8	11.1
20°-30°	504.4	18.8
30°-40°	611.9	22.8
40°-50°	538.6	20.1
50°-60°	333.3	12.4
60°-70°	180.7	6.7
70°-80°	102.9	3.8
80°-90°	33.7	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	882.9	32.9
0°-40°	1494.8	55.7
0°-60°	2366.6	88.2
0°-90°	2683.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2683.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	740	764	793	827	849	70
15°	682	786	1108	1310	1367	191
25°	577	790	1295	1334	1361	265
35°	455	732	1198	1181	1175	285
45°	352	602	971	823	470	273
55°	269	420	499	289	260	241
65°	189	236	170	146	145	187
75°	111	98	94	93	91	116
85°	24	33	34	30	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.9	748.9	748.9	748.9	748.9
2.5°	746.5	754.8	758.7	766.1	769.6
5°	739.8	763.6	793.1	827.1	849.4
7.5°	727.9	770.5	863.7	971.0	1016.8
10°	717.0	775.0	927.0	1082.2	1144.7
12.5°	704.8	779.5	1001.3	1189.4	1253.1
15°	682.0	786.1	1108.2	1310.4	1367.0
17.5°	652.4	790.2	1200.7	1374.5	1410.8
20°	631.7	791.0	1242.1	1382.5	1397.4
22.5°	612.2	791.7	1271.4	1363.0	1375.5
25°	576.9	789.8	1295.4	1334.1	1360.9
27.5°	541.6	780.9	1283.5	1314.7	1334.1
30°	516.0	772.0	1266.5	1292.4	1293.9
32.5°	491.7	757.2	1240.9	1248.5	1246.4
35°	455.1	732.0	1198.0	1181.1	1175.2
37.5°	421.0	698.5	1135.3	1108.1	1106.7
40°	400.3	674.2	1085.3	1059.6	1064.0
42.5°	380.9	646.4	1040.3	1010.1	926.4
45°	351.6	601.7	971.2	823.1	470.4
47.5°	326.4	550.8	892.9	440.9	404.9
50°	310.5	515.9	835.7	387.7	368.4
52.5°	294.7	483.4	761.4	348.6	323.3
55°	269.4	419.8	499.3	288.6	260.3
57.5°	245.4	352.8	305.1	224.3	193.6
60°	228.3	313.2	264.9	180.8	164.4
62.5°	212.5	280.7	225.9	160.4	157.1
65°	188.8	236.4	170.5	146.1	144.6
67.5°	166.5	194.2	130.0	131.5	130.0
70°	150.7	164.1	120.3	121.7	120.3
72.5°	136.1	135.2	110.5	109.6	108.1
75°	111.1	97.7	94.4	92.8	91.3
77.5°	84.9	72.1	76.1	74.6	73.1
80°	65.5	61.0	63.9	62.4	60.9
82.5°	48.4	49.9	51.8	49.0	47.5
85°	24.4	33.3	33.5	30.4	28.9
87.5°	7.3	14.5	13.4	10.9	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)