

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: P621830

Luminaire Tested: VLT-FB-0U-100D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621830
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-100D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

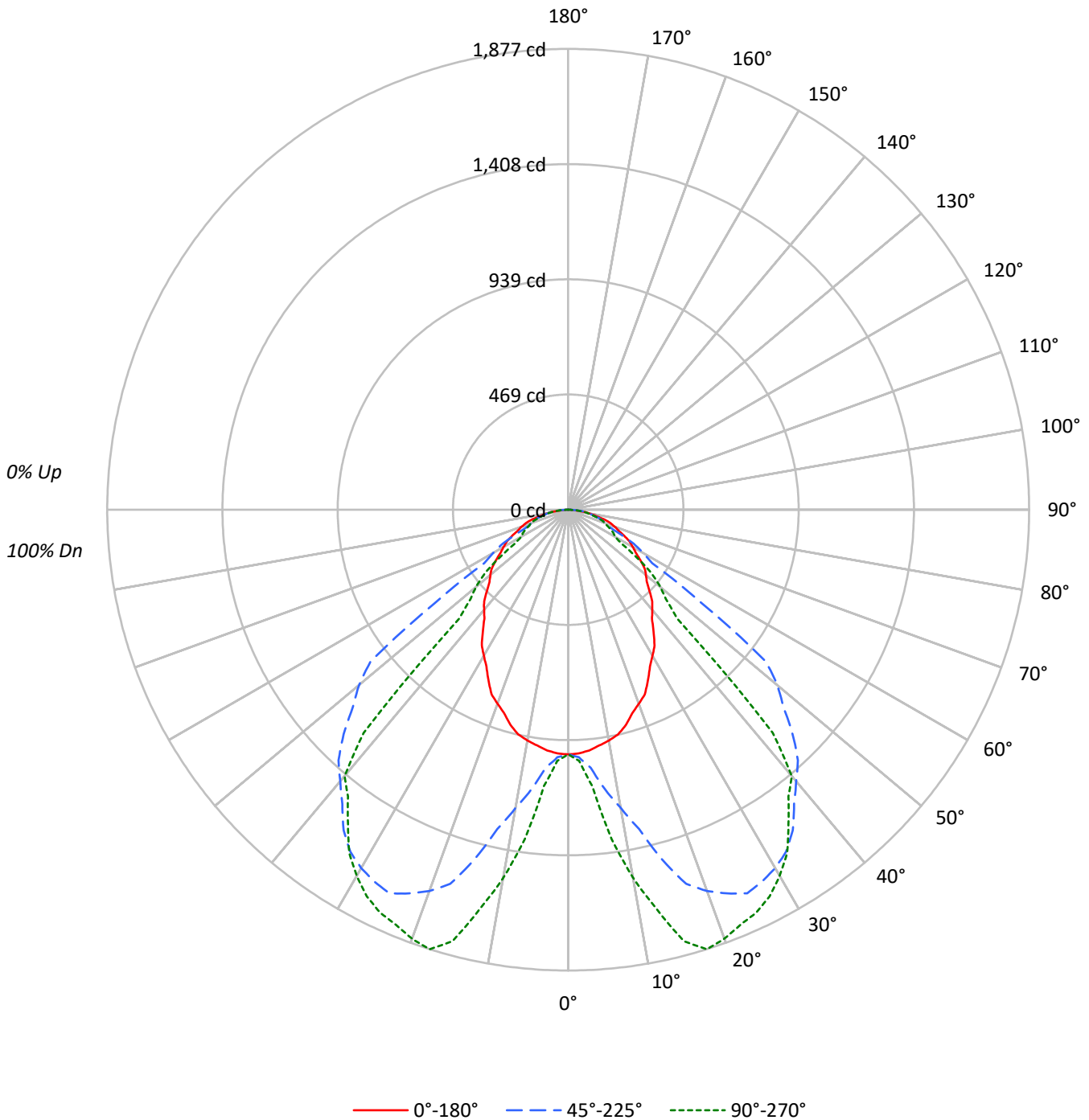
Lumens per Lamp: N/A
Luminaire Lumens: 3571.5 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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					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	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				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77					75				
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67					65				
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51					49				
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46					44				
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37					35				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7152	7152	7152
5°	7092	7602	8142
10°	6952	8989	11100
15°	6742	10956	13514
20°	6420	12623	14201
25°	6078	13649	14339
30°	5690	13965	14267
35°	5306	13966	13699
40°	4991	13530	13264
45°	4748	13116	6352
50°	4613	12415	5472
55°	4485	8312	4334
60°	4362	5059	3140
65°	4265	3853	3267
70°	4207	3357	3357
75°	4101	3482	3369
80°	3599	3517	3347
85°	2668	3672	3170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13116 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.0
10°-20°	396.3	11.1
20°-30°	671.2	18.8
30°-40°	814.2	22.8
40°-50°	716.7	20.1
50°-60°	443.5	12.4
60°-70°	240.4	6.7
70°-80°	137.0	3.8
80°-90°	44.8	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°	1175.0	32.9
0°-40°	1989.2	55.7
0°-60°	3149.3	88.2
0°-90°	3571.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3571.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	984	1016	1055	1101	1130	93
15°	908	1046	1475	1744	1819	254
25°	768	1051	1724	1775	1811	353
35°	606	974	1594	1572	1564	380
45°	468	801	1292	1095	626	363
55°	358	559	664	384	346	321
65°	251	315	227	194	192	249
75°	148	130	126	124	122	154
85°	32	44	45	40	38	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	996.6	996.6	996.6	996.6	996.6
2.5°	993.4	1004.5	1009.6	1019.4	1024.2
5°	984.5	1016.2	1055.4	1100.6	1130.3
7.5°	968.7	1025.3	1149.4	1292.2	1353.2
10°	954.1	1031.3	1233.6	1440.1	1523.3
12.5°	937.9	1037.3	1332.5	1582.8	1667.5
15°	907.5	1046.2	1474.7	1743.8	1819.1
17.5°	868.2	1051.6	1597.9	1829.1	1877.4
20°	840.7	1052.6	1653.0	1839.8	1859.6
22.5°	814.7	1053.6	1691.8	1813.8	1830.4
25°	767.7	1051.0	1723.9	1775.3	1811.0
27.5°	720.7	1039.2	1708.1	1749.6	1775.3
30°	686.7	1027.4	1685.4	1719.8	1721.8
32.5°	654.3	1007.6	1651.3	1661.4	1658.6
35°	605.7	974.1	1594.2	1571.7	1563.8
37.5°	560.3	929.5	1510.8	1474.7	1472.7
40°	532.8	897.2	1444.3	1410.0	1416.0
42.5°	506.8	860.2	1384.4	1344.1	1232.8
45°	467.9	800.7	1292.4	1095.4	625.9
47.5°	434.3	733.0	1188.3	586.8	538.8
50°	413.2	686.6	1112.1	516.0	490.2
52.5°	392.2	643.3	1013.2	463.9	430.3
55°	358.5	558.6	664.4	384.0	346.4
57.5°	326.5	469.5	405.9	298.5	257.7
60°	303.9	416.7	352.5	240.6	218.8
62.5°	282.8	373.5	300.6	213.4	209.1
65°	251.2	314.6	226.9	194.4	192.4
67.5°	221.6	258.4	173.0	175.0	173.0
70°	200.5	218.4	160.0	162.0	160.0
72.5°	181.1	179.9	147.1	145.8	143.8
75°	147.9	130.0	125.6	123.5	121.5
77.5°	113.0	96.0	101.3	99.2	97.2
80°	87.1	81.2	85.1	83.0	81.0
82.5°	64.4	66.4	68.9	65.2	63.2
85°	32.4	44.3	44.6	40.5	38.5
87.5°	9.7	19.2	17.8	14.5	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)