

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: P621758

Luminaire Tested: VLT-FB-025U-100D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621758
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-025U-100D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

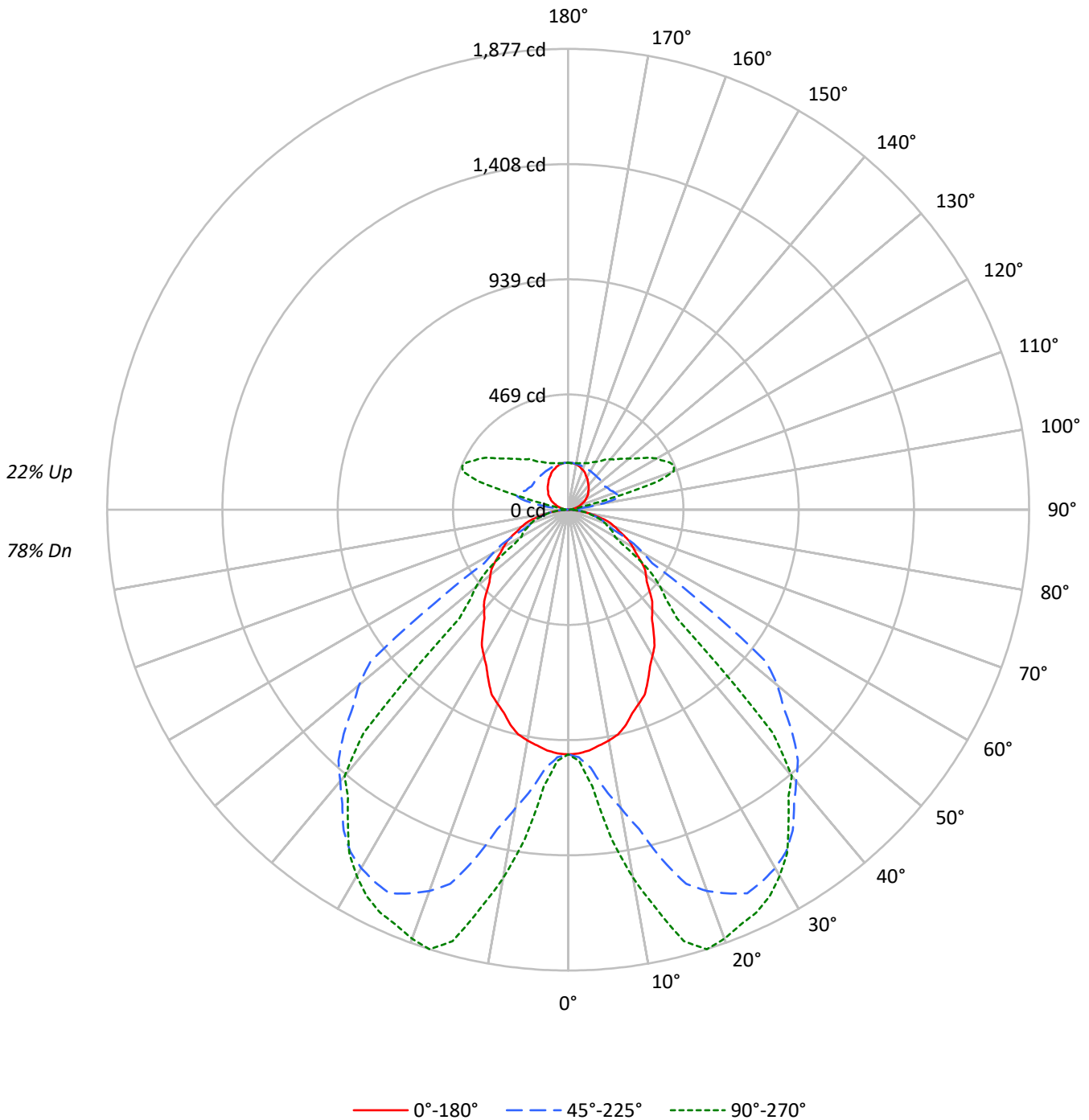
Lumens per Lamp: N/A
Luminaire Lumens: 4599.6 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 37.5
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	114	114	114	114	108	108	108	108	99	99	99		90	90	90		82	82	82	78
1	105	101	97	94	100	96	93	90	88	86	83		81	79	77		74	72	71	67
2	96	89	83	78	92	85	80	76	78	74	71		72	69	66		66	63	61	58
3	89	79	72	66	84	76	70	64	70	65	60		64	60	57		59	56	53	50
4	81	71	63	57	78	68	61	55	63	57	52		58	53	49		53	50	46	44
5	75	64	55	50	72	61	54	48	57	50	46		52	47	43		48	44	41	38
6	70	57	49	43	66	55	48	42	51	45	40		48	42	38		44	40	36	34
7	64	52	44	38	61	50	43	38	47	40	36		43	38	34		40	36	32	30
8	60	47	40	34	57	46	39	34	43	36	32		40	34	31		37	33	29	27
9	56	44	36	31	53	42	35	30	39	33	29		37	31	28		34	30	26	24
10	52	40	33	28	50	39	32	27	36	30	26		34	29	25		32	27	24	22

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	2.3
10°-20°	396.3	8.6
20°-30°	671.2	14.6
30°-40°	814.2	17.7
40°-50°	716.7	15.6
50°-60°	443.5	9.6
60°-70°	240.4	5.2
70°-80°	137.0	3.0
80°-90°	45.2	1.0
90°-100°	23.5	0.5
100°-110°	167.6	3.6
110°-120°	227.5	4.9
120°-130°	185.2	4.0
130°-140°	149.0	3.2
140°-150°	117.4	2.6
150°-160°	85.9	1.9
160°-170°	53.3	1.2
170°-180°	18.2	0.4
0°-30°	1175.0	25.5
0°-40°	1989.2	43.2
0°-60°	3149.3	68.5
0°-90°	3572.0	77.7
90°-120°	418.7	9.1
90°-150°	870.3	18.9
90°-180°	1028.0	22.3
0°-180°	4599.6	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	39
90°	0	1	2	4	4	2
95°	10	18	10	11	13	11
105°	37	57	218	278	184	39
115°	66	80	188	390	456	66
125°	95	108	177	309	366	84
135°	118	131	178	255	292	91
145°	140	151	179	222	245	88
155°	164	170	183	201	211	75
165°	182	184	188	193	196	51
175°	191	192	191	190	189	18
180°	191	191	191	191	191	

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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	19.5	18.3	15.3	13.7
90°	0.0	1.2	2.4	3.6	3.6
92.5°	2.9	4.1	5.3	7.5	8.4
95°	9.6	17.9	9.6	10.9	13.2
97.5°	17.1	34.3	70.7	20.9	18.0
100°	22.9	42.9	142.0	41.8	27.7
102.5°	28.6	49.6	192.0	110.3	60.4
105°	37.3	57.3	217.8	278.2	184.1
107.5°	46.0	61.0	207.9	404.9	379.2
110°	51.7	65.9	202.1	425.4	457.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.5	71.6	196.4	413.4	466.8
115°	66.2	80.3	187.7	390.1	456.0
117.5°	75.1	89.0	185.5	364.9	432.7
120°	81.8	94.8	181.7	345.7	416.3
122.5°	86.6	100.5	176.9	329.2	394.2
125°	95.1	108.0	176.9	309.3	365.8
127.5°	102.0	115.2	177.1	286.2	341.9
130°	105.9	120.0	178.1	270.7	323.7
132.5°	110.7	124.8	178.1	263.8	307.3
135°	117.9	130.9	178.1	254.7	292.4
137.5°	123.9	137.8	178.1	244.7	277.0
140°	128.7	141.7	178.1	238.9	268.3
142.5°	133.6	145.6	179.0	232.1	259.6
145°	139.6	151.3	179.3	221.9	245.4
147.5°	146.8	157.1	180.7	214.6	232.7
150°	151.6	161.0	181.7	209.7	225.0
152.5°	156.4	164.9	181.7	205.8	218.3
155°	163.6	169.5	182.9	201.1	210.6
157.5°	169.4	175.1	184.3	198.2	205.0
160°	173.3	178.0	185.3	196.2	202.1
162.5°	176.1	180.8	186.3	195.2	199.2
165°	181.7	184.0	187.7	192.6	196.1
167.5°	184.8	186.9	188.9	191.4	193.5
170°	187.7	188.9	188.9	191.3	192.5
172.5°	188.7	190.8	189.9	190.4	191.5
175°	191.3	192.5	191.3	190.1	188.9
177.5°	191.3	192.2	191.3	191.3	190.3
180°	191.3	191.3	191.3	191.3	191.3

(END OF REPORT)