

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P621854

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621854
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-100U-100D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

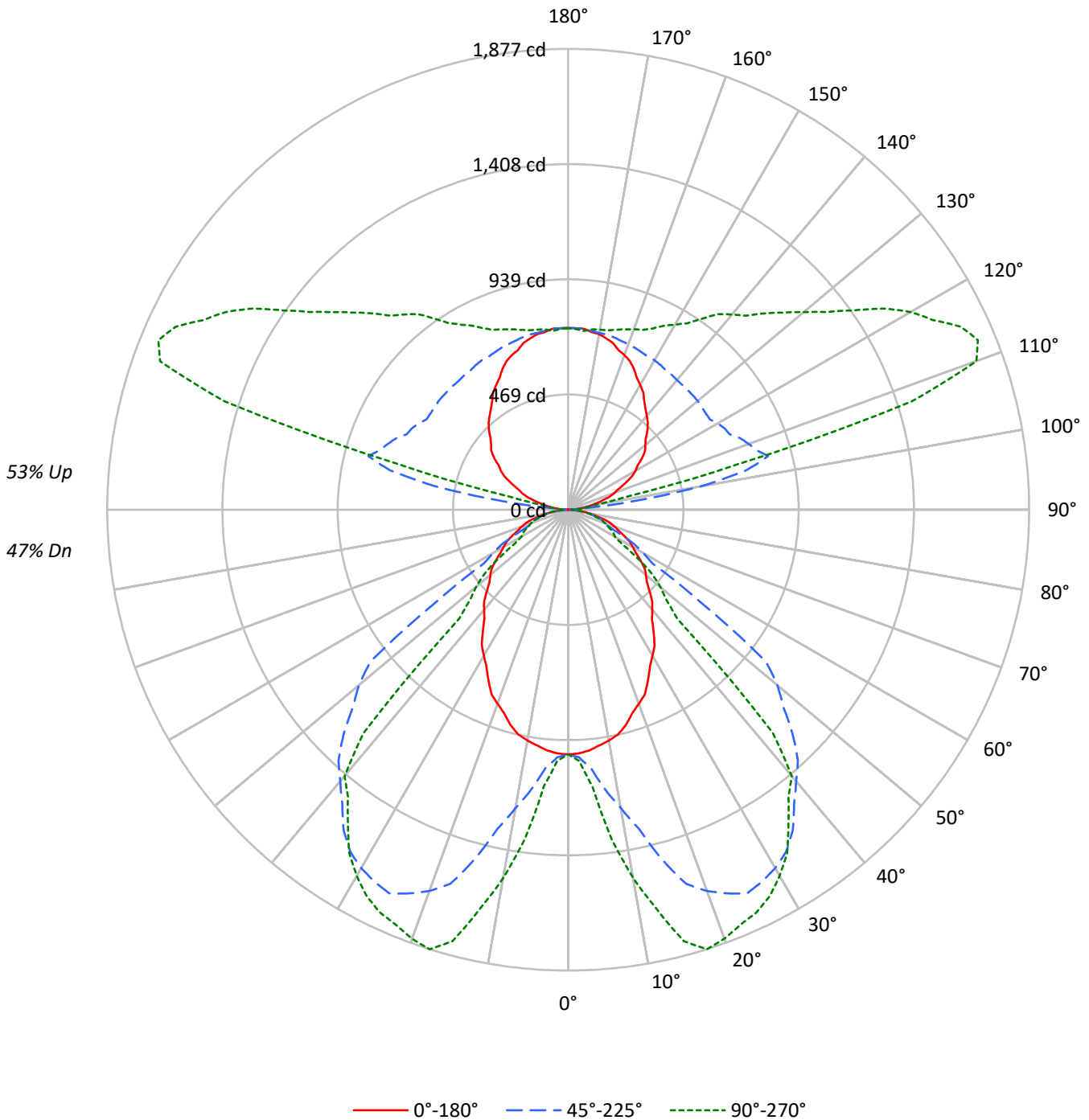
Lumens per Lamp: N/A
Luminaire Lumens: 7548.3 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.2
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	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	98	94	90	87	90	86	83	80	73	70	68	60	58	57	48	47	46				41	
2	89	82	77	72	82	76	71	67	64	61	58	53	51	49	43	42	40				35	
3	82	73	66	60	75	67	61	57	57	53	49	48	44	42	39	37	35				31	
4	75	65	57	52	69	60	53	48	51	46	42	43	39	36	35	32	30				27	
5	69	58	50	44	63	54	47	42	46	41	37	39	35	32	32	29	27				23	
6	64	52	44	39	59	48	41	36	41	36	32	35	31	28	29	26	24				21	
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21				18	
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19				16	
9	51	39	32	27	47	36	30	25	31	26	22	27	23	20	22	19	17				15	
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	15				13	

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	1.4
10°-20°	396.3	5.3
20°-30°	671.2	8.9
30°-40°	814.2	10.8
40°-50°	716.7	9.5
50°-60°	443.5	5.9
60°-70°	240.4	3.2
70°-80°	137.0	1.8
80°-90°	46.5	0.6
90°-100°	91.0	1.2
100°-110°	648.3	8.6
110°-120°	880.2	11.7
120°-130°	716.4	9.5
130°-140°	576.2	7.6
140°-150°	454.2	6.0
150°-160°	332.1	4.4
160°-170°	206.3	2.7
170°-180°	70.3	0.9
0°-30°	1175.0	15.6
0°-40°	1989.2	26.4
0°-60°	3149.3	41.7
0°-90°	3573.2	47.3
90°-120°	1619.5	21.5
90°-150°	3366.3	44.6
90°-180°	3975.0	52.7
0°-180°	7548.3	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	5	9	14	14	3
95°	37	69	37	42	51	42
105°	144	222	842	1076	712	152
115°	256	311	726	1509	1764	254
125°	368	418	684	1196	1415	327
135°	456	506	689	985	1131	351
145°	540	585	693	858	949	339
155°	633	656	707	778	814	291
165°	703	712	726	745	759	197
175°	740	744	740	735	731	70
180°	740	740	740	740	740	

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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	20.1	19.7	17.3	15.8
90°	0.0	4.6	9.3	14.0	14.0
92.5°	11.2	15.7	20.5	28.9	32.6
95°	37.2	69.1	37.2	42.1	51.2
97.5°	66.1	132.5	273.7	80.7	69.8
100°	88.4	165.8	549.2	161.6	107.0
102.5°	110.8	191.8	742.8	426.6	233.6
105°	144.3	221.6	842.4	1076.1	712.1
107.5°	177.8	236.0	804.2	1566.2	1466.9
110°	200.1	254.7	781.9	1645.7	1768.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.5	277.1	759.5	1599.2	1805.8
115°	256.0	310.6	726.0	1509.0	1763.9
117.5°	290.4	344.1	717.7	1411.5	1673.6
120°	316.5	366.5	702.8	1337.3	1610.3
122.5°	335.1	388.8	684.1	1273.5	1524.7
125°	367.7	417.7	684.1	1196.4	1414.8
127.5°	394.7	445.6	685.1	1107.0	1322.7
130°	409.6	464.2	688.8	1047.2	1251.9
132.5°	428.2	482.8	688.8	1020.3	1188.6
135°	456.1	506.2	688.8	985.3	1130.9
137.5°	479.4	533.1	688.8	946.7	1071.4
140°	498.0	548.0	688.8	924.1	1037.8
142.5°	516.6	563.0	692.5	897.9	1004.3
145°	539.9	585.4	693.4	858.4	949.4
147.5°	567.8	607.8	699.0	830.0	900.1
150°	586.4	622.8	702.8	811.1	870.3
152.5°	605.0	637.8	702.8	796.0	844.2
155°	632.9	655.7	707.4	778.0	814.5
157.5°	655.3	677.1	713.0	766.7	793.0
160°	670.2	688.4	716.7	759.1	781.9
162.5°	681.3	699.6	720.4	755.2	770.7
165°	702.8	711.9	726.0	745.0	758.6
167.5°	714.9	723.0	730.7	740.2	748.4
170°	726.0	730.6	730.7	740.1	744.6
172.5°	729.8	737.9	734.4	736.4	740.9
175°	740.0	744.5	740.0	735.2	730.7
177.5°	740.0	743.6	740.0	739.9	736.3
180°	740.0	740.0	740.0	740.0	740.0

(END OF REPORT)