

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: P621866

Luminaire Tested: VLT-FB-125U-050D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621866
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-125U-050D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

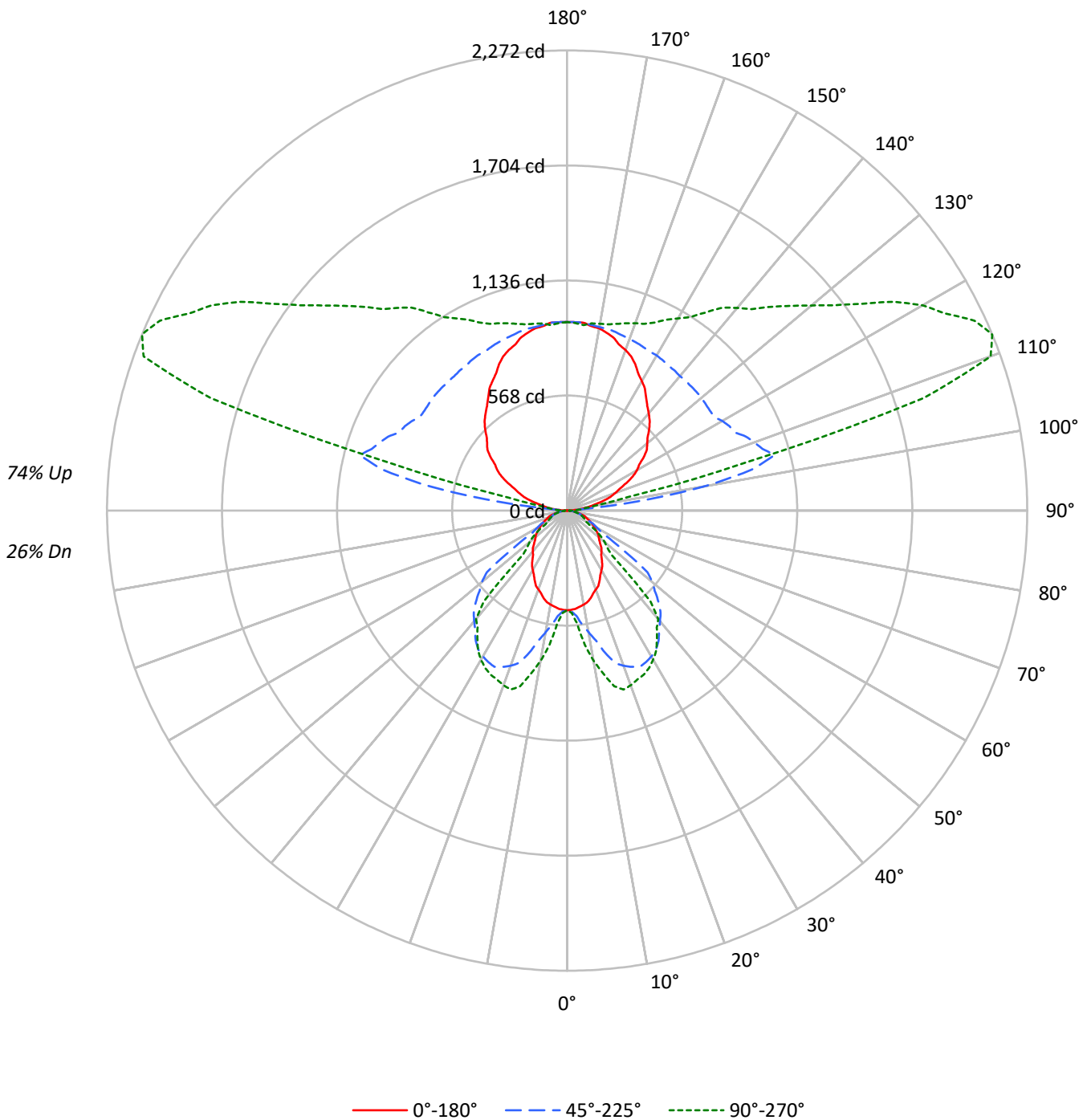
Lumens per Lamp: N/A
Luminaire Lumens: 6766.6 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 52.6
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26				
1	93	89	85	82	83	79	76	74	62	60	58	46	44	43	31	30	29	23				
2	85	78	72	67	75	70	65	61	54	51	48	40	38	37	27	26	25	19				
3	77	69	62	56	69	61	56	51	48	44	41	36	33	31	24	23	22	17				
4	71	61	53	48	63	55	48	43	43	38	35	32	29	27	22	20	19	15				
5	65	54	46	41	58	49	42	37	38	34	30	29	26	23	20	18	17	13				
6	60	48	41	35	53	44	37	32	34	30	26	26	23	20	18	16	15	11				
7	55	44	36	31	49	39	33	28	31	26	23	24	20	18	16	15	13	10				
8	51	39	32	27	46	36	29	25	28	24	20	22	18	16	15	13	12	9				
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	10	8				
10	44	33	26	21	39	30	24	20	24	19	16	18	15	13	13	11	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3531	3531	3531
5°	3501	3753	4019
10°	3432	4438	5480
15°	3328	5408	6671
20°	3169	6231	7010
25°	3001	6738	7078
30°	2809	6894	7043
35°	2619	6894	6763
40°	2464	6679	6548
45°	2344	6475	3136
50°	2277	6129	2702
55°	2214	4104	2139
60°	2153	2497	1550
65°	2105	1902	1613
70°	2077	1658	1658
75°	2024	1719	1664
80°	1777	1736	1653
85°	1317	1811	1564

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6475 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	0.8
10°-20°	195.6	2.9
20°-30°	331.3	4.9
30°-40°	402.0	5.9
40°-50°	353.8	5.2
50°-60°	218.9	3.2
60°-70°	118.7	1.8
70°-80°	67.6	1.0
80°-90°	24.2	0.4
90°-100°	114.5	1.7
100°-110°	815.7	12.1
110°-120°	1107.4	16.4
120°-130°	901.3	13.3
130°-140°	724.9	10.7
140°-150°	571.5	8.4
150°-160°	417.9	6.2
160°-170°	259.6	3.8
170°-180°	88.5	1.3
0°-30°	580.0	8.6
0°-40°	982.0	14.5
0°-60°	1554.7	23.0
0°-90°	1765.2	26.1
90°-120°	2037.7	30.1
90°-150°	4235.4	62.6
90°-180°	5001.0	73.9
0°-180°	6766.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	486	502	521	543	558	46
15°	448	516	728	861	898	125
25°	379	519	851	876	894	174
35°	299	481	787	776	772	187
45°	231	395	638	541	309	179
55°	177	276	328	190	171	158
65°	124	155	112	96	95	123
75°	73	64	62	61	60	76
85°	16	22	22	20	19	19
90°	0	6	12	18	18	3
95°	47	87	47	53	64	52
105°	182	279	1060	1354	896	191
115°	322	391	914	1899	2219	320
125°	463	526	861	1505	1780	411
135°	574	637	867	1240	1423	441
145°	679	736	872	1080	1195	427
155°	796	825	890	979	1025	366
165°	884	896	914	937	954	248
175°	931	937	931	925	919	88
180°	931	931	931	931	931	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	492.0	492.0	492.0	492.0	492.0
2.5°	490.4	495.9	498.4	503.3	505.6
5°	486.0	501.6	521.0	543.3	558.0
7.5°	478.2	506.2	567.4	637.9	668.0
10°	471.0	509.1	609.0	710.9	752.0
12.5°	463.0	512.1	657.8	781.4	823.2
15°	448.0	516.4	728.0	860.8	898.0
17.5°	428.6	519.1	788.8	902.9	926.8
20°	415.0	519.6	816.0	908.2	918.0
22.5°	402.2	520.1	835.2	895.4	903.6
25°	379.0	518.8	851.0	876.4	894.0
27.5°	355.8	513.0	843.2	863.7	876.4
30°	339.0	507.2	832.0	849.0	850.0
32.5°	323.0	497.4	815.2	820.2	818.8
35°	299.0	480.9	787.0	775.9	772.0
37.5°	276.6	458.9	745.8	728.0	727.0
40°	263.0	442.9	713.0	696.1	699.0
42.5°	250.2	424.6	683.4	663.6	608.6
45°	231.0	395.3	638.0	540.7	309.0
47.5°	214.4	361.8	586.6	289.7	266.0
50°	204.0	338.9	549.0	254.7	242.0
52.5°	193.6	317.6	500.2	229.0	212.4
55°	177.0	275.8	328.0	189.6	171.0
57.5°	161.2	231.8	200.4	147.3	127.2
60°	150.0	205.7	174.0	118.8	108.0
62.5°	139.6	184.4	148.4	105.4	103.2
65°	124.0	155.3	112.0	96.0	95.0
67.5°	109.4	127.6	85.4	86.4	85.4
70°	99.0	107.8	79.0	80.0	79.0
72.5°	89.4	88.8	72.6	72.0	71.0
75°	73.0	64.2	62.0	61.0	60.0
77.5°	55.8	47.4	50.0	49.0	48.0
80°	43.0	40.1	42.0	41.0	40.0
82.5°	31.8	32.8	34.0	32.2	31.2
85°	16.0	21.9	22.0	20.0	19.0
87.5°	4.8	10.6	11.1	10.7	9.9
90°	0.0	5.7	11.7	17.6	17.6
92.5°	14.1	19.8	25.8	36.4	41.0
95°	46.8	86.9	46.8	53.0	64.4
97.5°	83.2	166.7	344.3	101.6	87.8
100°	111.3	208.6	691.0	203.4	134.7
102.5°	139.4	241.3	934.6	536.7	294.0
105°	181.5	278.9	1059.9	1354.0	895.9
107.5°	223.7	297.0	1011.9	1970.5	1845.7
110°	251.8	320.5	983.8	2070.6	2225.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279.9	348.6	955.6	2012.1	2272.0
115°	322.1	390.8	913.5	1898.7	2219.3
117.5°	365.4	433.0	902.9	1775.9	2105.7
120°	398.2	461.2	884.2	1682.5	2026.1
122.5°	421.6	489.2	860.8	1602.3	1918.3
125°	462.6	525.6	860.8	1505.3	1780.1
127.5°	496.6	560.7	862.0	1392.8	1664.2
130°	515.3	584.0	866.6	1317.5	1575.2
132.5°	538.7	607.4	866.6	1283.7	1495.5
135°	573.9	636.8	866.6	1239.7	1422.9
137.5°	603.1	670.7	866.6	1191.1	1348.0
140°	626.6	689.5	866.6	1162.7	1305.8
142.5°	650.0	708.4	871.3	1129.7	1263.7
145°	679.3	736.5	872.5	1080.1	1194.6
147.5°	714.4	764.8	879.5	1044.3	1132.5
150°	737.8	783.6	884.2	1020.6	1095.0
152.5°	761.2	802.5	884.2	1001.5	1062.2
155°	796.4	825.0	890.1	978.9	1024.7
157.5°	824.5	852.0	897.1	964.6	997.8
160°	843.2	866.1	901.8	955.1	983.8
162.5°	857.3	880.2	906.5	950.2	969.7
165°	884.2	895.7	913.5	937.3	954.5
167.5°	899.4	909.7	919.3	931.3	941.6
170°	913.5	919.2	919.3	931.2	936.9
172.5°	918.2	928.5	924.0	926.5	932.2
175°	931.1	936.8	931.1	925.1	919.3
177.5°	931.1	935.6	931.1	931.0	926.4
180°	931.1	931.1	931.1	931.1	931.1

(END OF REPORT)