

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: P621794

Luminaire Tested: VLT-FB-075U-050D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621794
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-075U-050D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

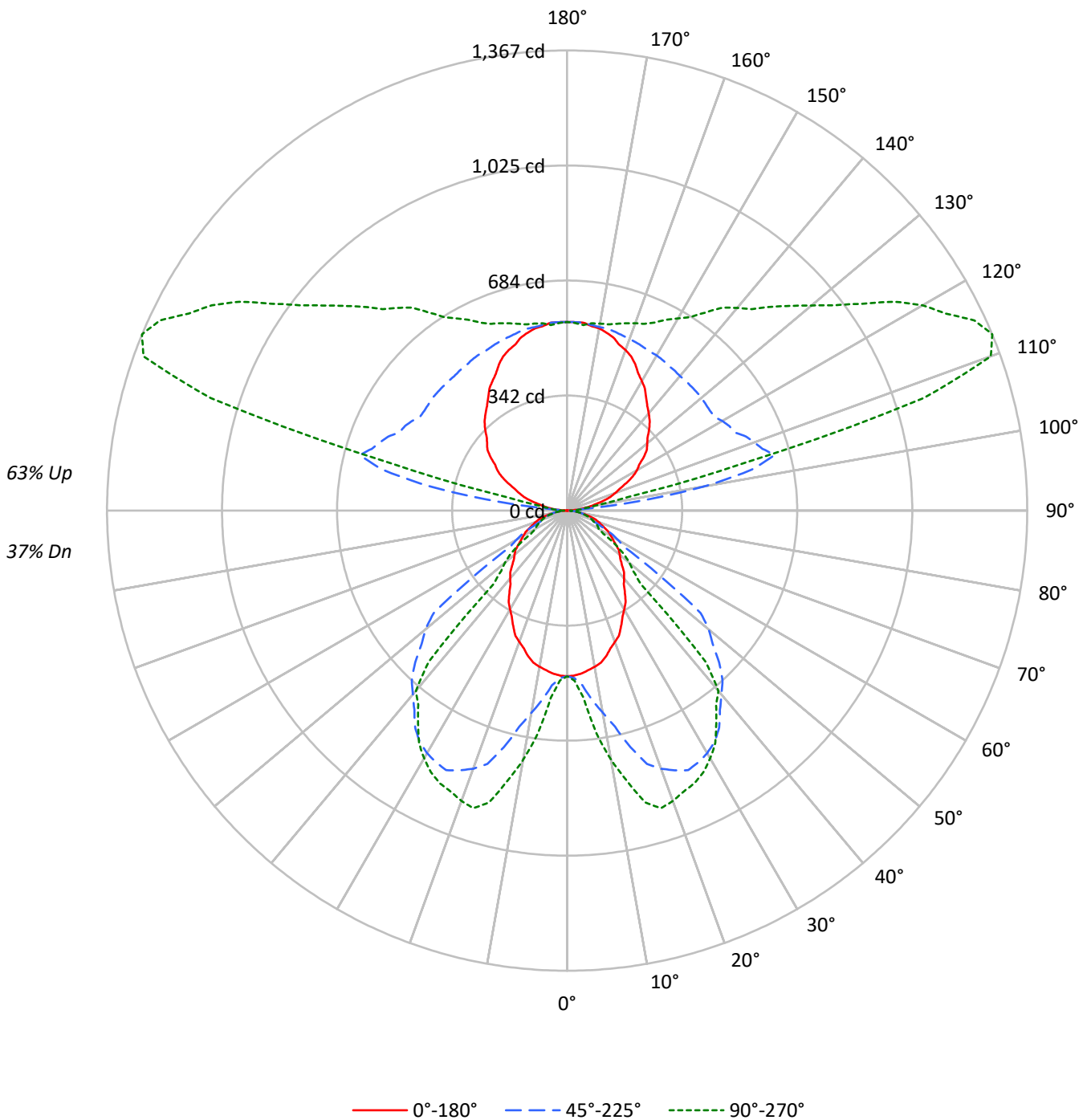
Lumens per Lamp: N/A
Luminaire Lumens: 4774.1 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 35.2
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	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37				
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32				
2	87	80	74	70	79	73	68	64	59	56	53	47	45	43	35	34	33	28				
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	28	24				
4	73	63	55	50	66	57	51	46	47	42	39	38	34	32	29	27	25	21				
5	67	56	48	43	61	51	45	40	42	37	33	34	30	28	26	24	22	18				
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16				
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	22	19	17	14				
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13				
9	49	37	30	25	45	34	28	24	29	24	20	23	20	17	18	16	14	12				
10	46	34	27	23	42	32	25	21	26	22	18	21	18	15	17	14	13	11				

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	1.1
10°-20°	195.6	4.1
20°-30°	331.3	6.9
30°-40°	402.0	8.4
40°-50°	353.8	7.4
50°-60°	218.9	4.6
60°-70°	118.7	2.5
70°-80°	67.6	1.4
80°-90°	23.4	0.5
90°-100°	68.9	1.4
100°-110°	490.9	10.3
110°-120°	666.4	14.0
120°-130°	542.4	11.4
130°-140°	436.2	9.1
140°-150°	343.9	7.2
150°-160°	251.5	5.3
160°-170°	156.2	3.3
170°-180°	53.3	1.1
0°-30°	580.0	12.1
0°-40°	982.0	20.6
0°-60°	1554.7	32.6
0°-90°	1764.4	37.0
90°-120°	1226.2	25.7
90°-150°	2548.7	53.4
90°-180°	3010.0	63.0
0°-180°	4774.1	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	3	7	11	11	2
95°	28	52	28	32	39	32
105°	109	168	638	815	539	115
115°	194	235	550	1143	1336	192
125°	278	316	518	906	1071	247
135°	345	383	522	746	856	266
145°	409	443	525	650	719	257
155°	479	496	536	589	617	220
165°	532	539	550	564	574	149
175°	560	564	560	557	553	53
180°	560	560	560	560	560	

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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	10.2	10.2	9.3	8.5
90°	0.0	3.4	7.0	10.6	10.6
92.5°	8.5	11.9	15.5	21.9	24.7
95°	28.2	52.3	28.2	31.9	38.8
97.5°	50.0	100.3	207.2	61.1	52.9
100°	67.0	125.5	415.8	122.4	81.0
102.5°	83.9	145.2	562.4	323.0	176.9
105°	109.2	167.8	637.8	814.8	539.1
107.5°	134.6	178.7	608.9	1185.8	1110.7
110°	151.5	192.9	592.0	1246.0	1339.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.4	209.8	575.1	1210.8	1367.2
115°	193.8	235.2	549.7	1142.6	1335.5
117.5°	219.9	260.5	543.4	1068.7	1267.1
120°	239.6	277.5	532.1	1012.5	1219.2
122.5°	253.7	294.4	518.0	964.2	1154.4
125°	278.4	316.3	518.0	905.8	1071.2
127.5°	298.8	337.4	518.7	838.1	1001.5
130°	310.1	351.4	521.5	792.8	947.9
132.5°	324.2	365.5	521.5	772.5	900.0
135°	345.3	383.2	521.5	746.0	856.3
137.5°	362.9	403.6	521.5	716.8	811.2
140°	377.0	414.9	521.5	699.7	785.8
142.5°	391.1	426.3	524.3	679.8	760.4
145°	408.8	443.2	525.0	649.9	718.8
147.5°	429.9	460.2	529.3	628.4	681.5
150°	444.0	471.6	532.1	614.2	658.9
152.5°	458.1	482.9	532.1	602.7	639.2
155°	479.2	496.5	535.6	589.1	616.7
157.5°	496.1	512.7	539.8	580.5	600.4
160°	507.4	521.2	542.7	574.8	592.0
162.5°	515.9	529.7	545.5	571.8	583.5
165°	532.1	539.0	549.7	564.0	574.4
167.5°	541.2	547.5	553.2	560.4	566.6
170°	549.7	553.2	553.2	560.4	563.8
172.5°	552.5	558.7	556.0	557.5	561.0
175°	560.3	563.7	560.3	556.7	553.2
177.5°	560.3	563.0	560.3	560.2	557.5
180°	560.3	560.3	560.3	560.3	560.3

(END OF REPORT)