

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: P621869

Luminaire Tested: VLT-FB-125U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621869
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-935-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

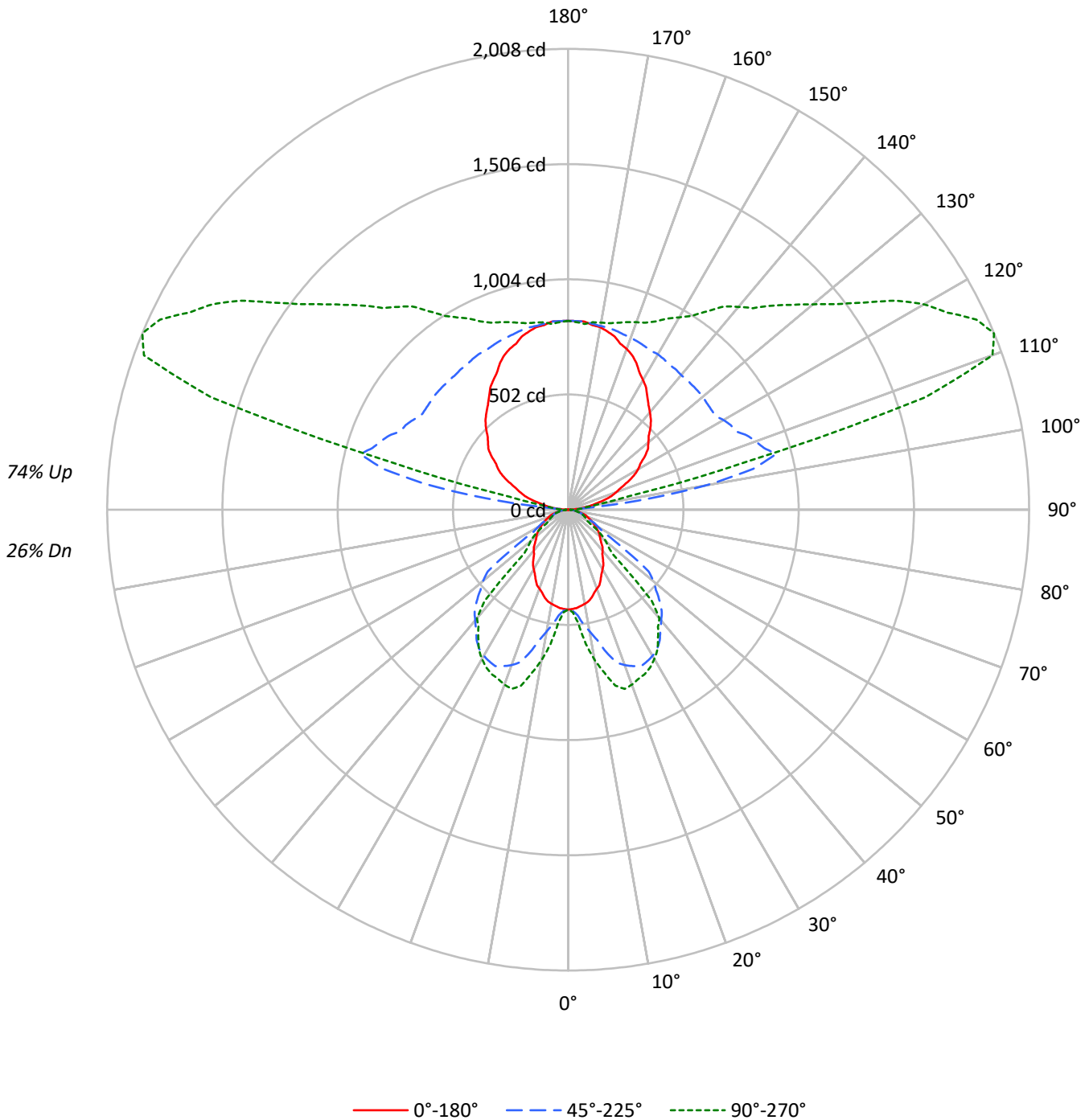
Lumens per Lamp: N/A
Luminaire Lumens: 5979.3 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 52.6
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	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°	3120	3120	3120
5°	3094	3316	3552
10°	3033	3921	4842
15°	2941	4779	5895
20°	2800	5507	6195
25°	2652	5954	6255
30°	2483	6092	6224
35°	2314	6092	5976
40°	2177	5902	5786
45°	2071	5722	2770
50°	2013	5416	2387
55°	1957	3626	1890
60°	1902	2207	1369
65°	1861	1681	1425
70°	1836	1464	1464
75°	1788	1519	1469
80°	1570	1533	1459
85°	1161	1597	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	0.8
10°-20°	172.9	2.9
20°-30°	292.8	4.9
30°-40°	355.2	5.9
40°-50°	312.6	5.2
50°-60°	193.5	3.2
60°-70°	104.9	1.8
70°-80°	59.8	1.0
80°-90°	21.4	0.4
90°-100°	101.2	1.7
100°-110°	720.8	12.1
110°-120°	978.6	16.4
120°-130°	796.5	13.3
130°-140°	640.6	10.7
140°-150°	505.0	8.4
150°-160°	369.3	6.2
160°-170°	229.4	3.8
170°-180°	78.2	1.3
0°-30°	512.5	8.6
0°-40°	867.7	14.5
0°-60°	1373.8	23.0
0°-90°	1559.8	26.1
90°-120°	1800.6	30.1
90°-150°	3742.6	62.6
90°-180°	4419.0	73.9
0°-180°	5979.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	435	435	435	435	435	
5°	430	443	460	480	493	41
15°	396	456	643	761	794	111
25°	335	458	752	774	790	154
35°	264	425	695	686	682	166
45°	204	349	564	478	273	158
55°	156	244	290	168	151	140
65°	110	137	99	85	84	109
75°	64	57	55	54	53	67
85°	14	19	19	18	17	17
90°	0	5	10	16	16	2
95°	41	77	41	47	57	46
105°	160	246	937	1196	792	169
115°	285	345	807	1678	1961	283
125°	409	464	761	1330	1573	363
135°	507	563	766	1096	1257	390
145°	600	651	771	954	1056	377
155°	704	729	786	865	906	323
165°	781	792	807	828	843	219
175°	823	828	823	817	812	78
180°	823	823	823	823	823	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	434.8	434.8	434.8	434.8	434.8
2.5°	433.3	438.2	440.4	444.7	446.8
5°	429.5	443.3	460.4	480.1	493.1
7.5°	422.6	447.3	501.4	563.7	590.3
10°	416.2	449.9	538.1	628.2	664.5
12.5°	409.1	452.5	581.3	690.4	727.4
15°	395.9	456.4	643.3	760.7	793.5
17.5°	378.7	458.7	697.0	797.9	819.0
20°	366.7	459.2	721.1	802.6	811.2
22.5°	355.4	459.6	738.0	791.2	798.5
25°	334.9	458.5	752.0	774.4	790.0
27.5°	314.4	453.3	745.1	763.2	774.4
30°	299.6	448.2	735.2	750.2	751.1
32.5°	285.4	439.6	720.4	724.7	723.5
35°	264.2	424.9	695.4	685.6	682.2
37.5°	244.4	405.5	659.0	643.3	642.4
40°	232.4	391.4	630.0	615.1	617.7
42.5°	221.1	375.2	603.9	586.3	537.8
45°	204.1	349.3	563.8	477.8	273.0
47.5°	189.5	319.7	518.4	256.0	235.1
50°	180.3	299.5	485.1	225.1	213.8
52.5°	171.1	280.6	442.0	202.4	187.7
55°	156.4	243.7	289.8	167.5	151.1
57.5°	142.4	204.8	177.1	130.2	112.4
60°	132.5	181.8	153.8	104.9	95.4
62.5°	123.4	162.9	131.1	93.1	91.2
65°	109.6	137.2	99.0	84.8	83.9
67.5°	96.7	112.7	75.5	76.3	75.5
70°	87.5	95.3	69.8	70.7	69.8
72.5°	79.0	78.5	64.2	63.6	62.7
75°	64.5	56.7	54.8	53.9	53.0
77.5°	49.3	41.9	44.2	43.3	42.4
80°	38.0	35.4	37.1	36.2	35.3
82.5°	28.1	29.0	30.0	28.4	27.6
85°	14.1	19.3	19.4	17.7	16.8
87.5°	4.2	9.4	9.8	9.5	8.8
90°	0.0	5.1	10.3	15.5	15.5
92.5°	12.4	17.5	22.8	32.2	36.2
95°	41.4	76.8	41.4	46.8	56.9
97.5°	73.5	147.3	304.3	89.8	77.6
100°	98.3	184.3	610.6	179.7	119.0
102.5°	123.2	213.2	825.8	474.3	259.8
105°	160.4	246.4	936.6	1196.4	791.7
107.5°	197.7	262.4	894.1	1741.3	1631.0
110°	222.5	283.2	869.3	1829.7	1966.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	247.3	308.0	844.5	1778.0	2007.7
115°	284.6	345.3	807.2	1677.8	1961.1
117.5°	322.9	382.6	797.9	1569.3	1860.7
120°	351.9	407.5	781.3	1486.8	1790.3
122.5°	372.6	432.3	760.6	1415.9	1695.1
125°	408.8	464.4	760.6	1330.2	1573.0
127.5°	438.8	495.5	761.7	1230.8	1470.6
130°	455.3	516.1	765.8	1164.2	1391.9
132.5°	476.0	536.8	765.8	1134.3	1321.5
135°	507.1	562.7	765.8	1095.5	1257.4
137.5°	533.0	592.7	765.8	1052.5	1191.1
140°	553.7	609.3	765.8	1027.4	1153.9
142.5°	574.4	626.0	770.0	998.2	1116.6
145°	600.2	650.8	771.0	954.4	1055.6
147.5°	631.3	675.8	777.2	922.8	1000.7
150°	652.0	692.5	781.3	901.8	967.6
152.5°	672.7	709.1	781.3	885.0	938.6
155°	703.7	729.0	786.5	865.0	905.5
157.5°	728.6	752.8	792.7	852.4	881.7
160°	745.1	765.4	796.9	844.0	869.3
162.5°	757.5	777.8	801.0	839.7	856.9
165°	781.3	791.5	807.2	828.3	843.4
167.5°	794.8	803.9	812.4	822.9	832.0
170°	807.2	812.3	812.4	822.8	827.9
172.5°	811.3	820.5	816.5	818.7	823.8
175°	822.7	827.8	822.7	817.4	812.4
177.5°	822.7	826.8	822.7	822.6	818.6
180°	822.7	822.7	822.7	822.7	822.7

(END OF REPORT)