

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: P621872

Luminaire Tested: VLT-FB-125U-075D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621872
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-075D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

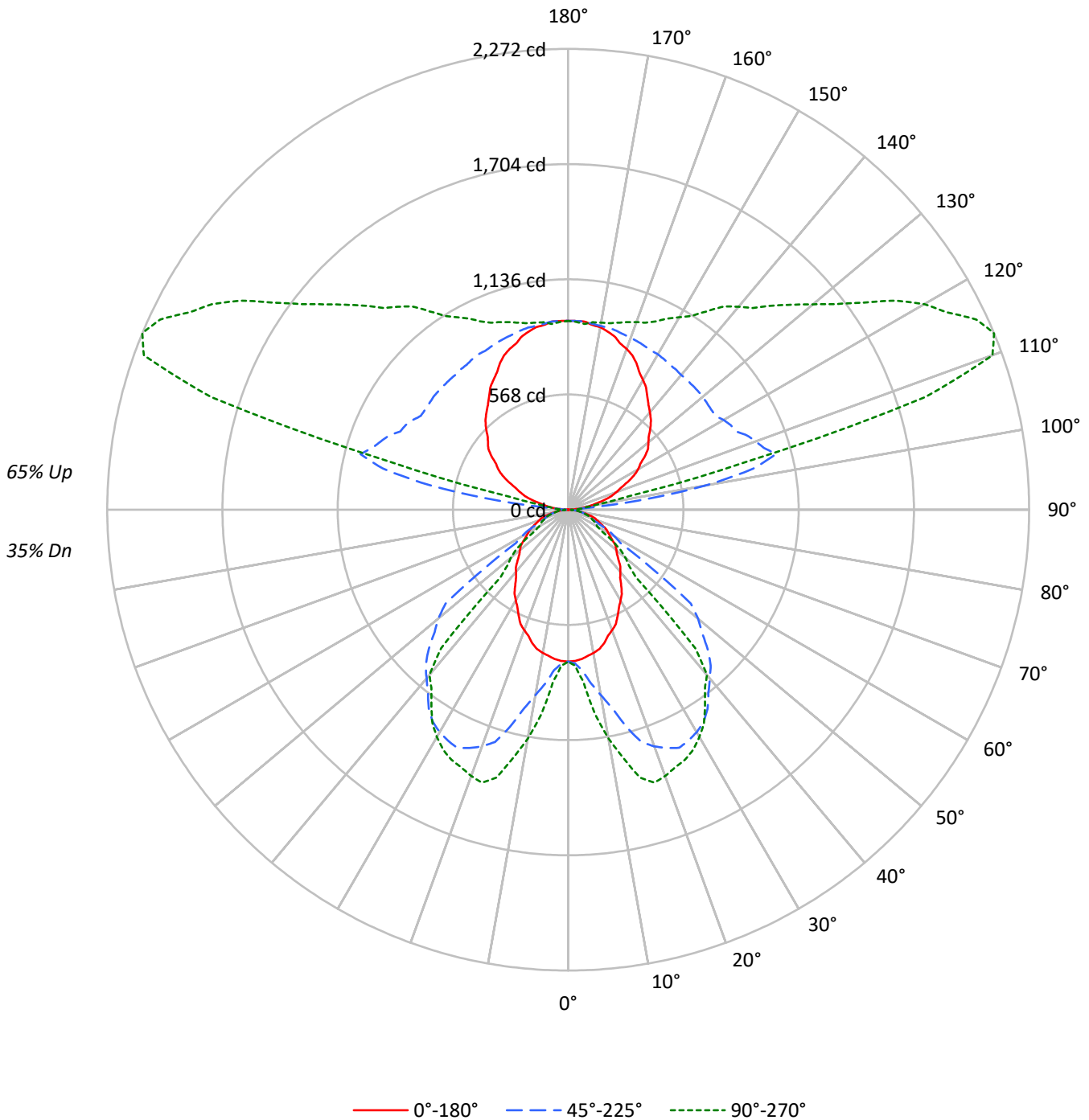
Lumens per Lamp: N/A
Luminaire Lumens: 7687.4 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	36	30
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	31	26
3	79	70	63	58	71	64	58	53	52	48	44	41	38	36	30	29	27	23
4	73	62	55	49	65	57	50	45	46	42	38	37	33	31	27	25	24	20
5	67	56	48	42	60	51	44	39	41	37	33	33	29	27	25	23	21	17
6	61	50	42	37	55	46	39	34	37	32	29	30	26	23	23	20	18	15
7	57	45	37	32	51	41	34	30	34	29	25	27	23	21	21	18	16	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	18	19	16	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	17	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5374	5374	5374
5°	5329	5713	6119
10°	5225	6755	8341
15°	5067	8233	10156
20°	4824	9485	10671
25°	4568	10257	10775
30°	4276	10494	10721
35°	3987	10495	10295
40°	3750	10167	9967
45°	3568	9856	4774
50°	3466	9330	4113
55°	3370	6247	3257
60°	3277	3802	2359
65°	3206	2895	2455
70°	3162	2524	2524
75°	3080	2617	2531
80°	2707	2641	2517
85°	2009	2758	2379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	1.1
10°-20°	297.8	3.9
20°-30°	504.4	6.6
30°-40°	611.9	8.0
40°-50°	538.6	7.0
50°-60°	333.3	4.3
60°-70°	180.7	2.4
70°-80°	102.9	1.3
80°-90°	35.8	0.5
90°-100°	114.5	1.5
100°-110°	815.7	10.6
110°-120°	1107.4	14.4
120°-130°	901.3	11.7
130°-140°	724.9	9.4
140°-150°	571.5	7.4
150°-160°	417.9	5.4
160°-170°	259.6	3.4
170°-180°	88.5	1.2
0°-30°	882.9	11.5
0°-40°	1494.8	19.4
0°-60°	2366.6	30.8
0°-90°	2686.0	34.9
90°-120°	2037.7	26.5
90°-150°	4235.4	55.1
90°-180°	5001.0	65.1
0°-180°	7687.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	740	764	793	827	849	70
15°	682	786	1108	1310	1367	191
25°	577	790	1295	1334	1361	265
35°	455	732	1198	1181	1175	285
45°	352	602	971	823	470	273
55°	269	420	499	289	260	241
65°	189	236	170	146	145	187
75°	111	98	94	93	91	116
85°	24	33	34	30	29	30
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°	748.9	748.9	748.9	748.9	748.9
2.5°	746.5	754.8	758.7	766.1	769.6
5°	739.8	763.6	793.1	827.1	849.4
7.5°	727.9	770.5	863.7	971.0	1016.8
10°	717.0	775.0	927.0	1082.2	1144.7
12.5°	704.8	779.5	1001.3	1189.4	1253.1
15°	682.0	786.1	1108.2	1310.4	1367.0
17.5°	652.4	790.2	1200.7	1374.5	1410.8
20°	631.7	791.0	1242.1	1382.5	1397.4
22.5°	612.2	791.7	1271.4	1363.0	1375.5
25°	576.9	789.8	1295.4	1334.1	1360.9
27.5°	541.6	780.9	1283.5	1314.7	1334.1
30°	516.0	772.0	1266.5	1292.4	1293.9
32.5°	491.7	757.2	1240.9	1248.5	1246.4
35°	455.1	732.0	1198.0	1181.1	1175.2
37.5°	421.0	698.5	1135.3	1108.1	1106.7
40°	400.3	674.2	1085.3	1059.6	1064.0
42.5°	380.9	646.4	1040.3	1010.1	926.4
45°	351.6	601.7	971.2	823.1	470.4
47.5°	326.4	550.8	892.9	440.9	404.9
50°	310.5	515.9	835.7	387.7	368.4
52.5°	294.7	483.4	761.4	348.6	323.3
55°	269.4	419.8	499.3	288.6	260.3
57.5°	245.4	352.8	305.1	224.3	193.6
60°	228.3	313.2	264.9	180.8	164.4
62.5°	212.5	280.7	225.9	160.4	157.1
65°	188.8	236.4	170.5	146.1	144.6
67.5°	166.5	194.2	130.0	131.5	130.0
70°	150.7	164.1	120.3	121.7	120.3
72.5°	136.1	135.2	110.5	109.6	108.1
75°	111.1	97.7	94.4	92.8	91.3
77.5°	84.9	72.1	76.1	74.6	73.1
80°	65.5	61.0	63.9	62.4	60.9
82.5°	48.4	49.9	51.8	49.0	47.5
85°	24.4	33.3	33.5	30.4	28.9
87.5°	7.3	15.6	15.7	14.4	13.3
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)