

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: P621897

Luminaire Tested: VLT-FB-150U-075D-840-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621897
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-150U-075D-840-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

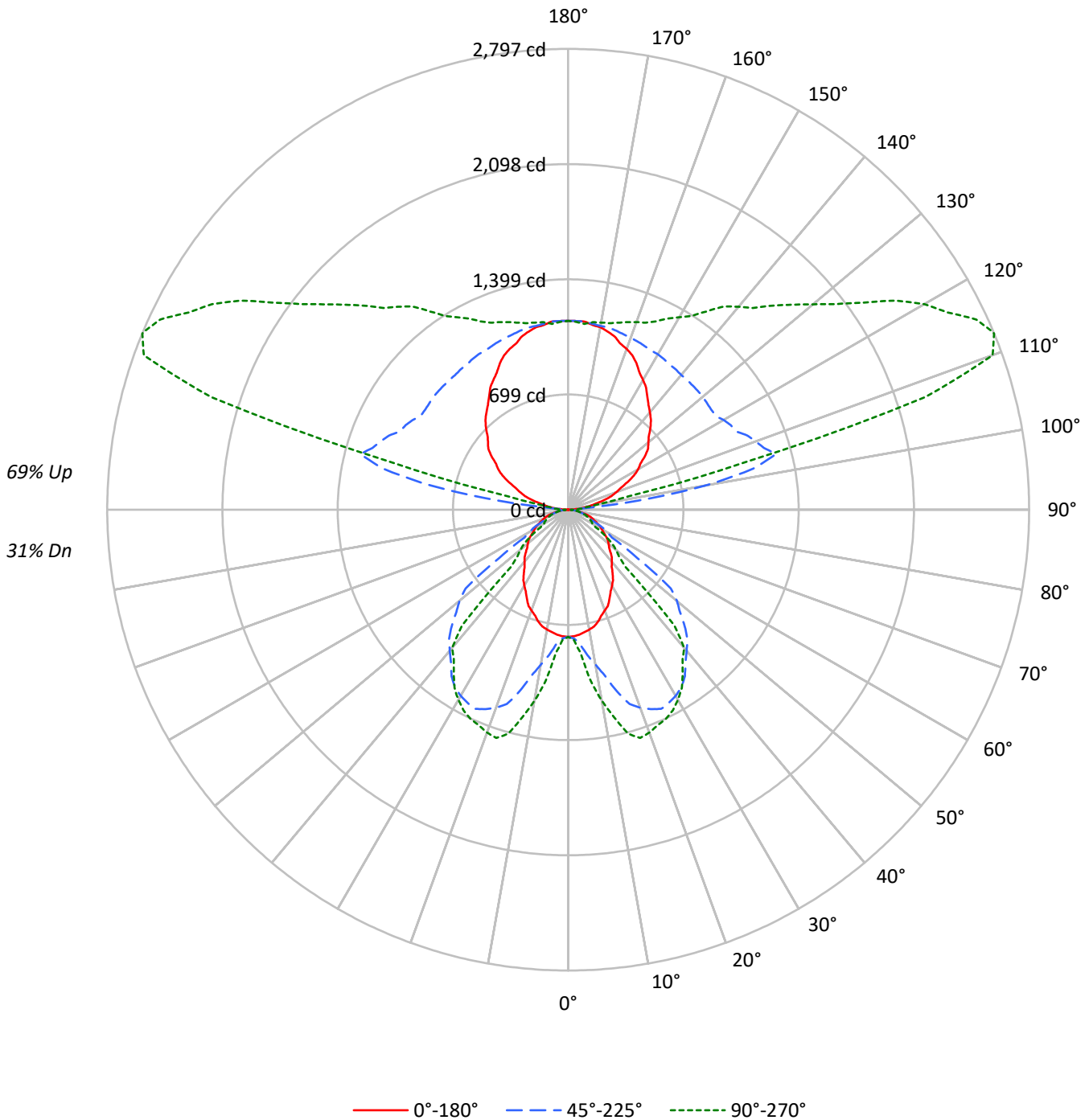
Lumens per Lamp: N/A
Luminaire Lumens: 8924.0 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 70.2
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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	33	27
2	86	79	73	68	77	71	66	62	57	53	51	43	41	39	31	30	29	23
3	78	70	63	57	70	63	57	52	50	46	43	39	36	34	28	26	25	20
4	72	62	54	49	64	56	49	45	45	40	37	35	31	29	25	23	22	17
5	66	55	47	42	59	50	43	38	40	35	32	31	28	25	23	21	19	15
6	61	49	42	36	54	45	38	33	36	31	28	28	25	22	21	18	17	14
7	56	44	37	31	50	40	34	29	33	28	24	25	22	20	19	17	15	12
8	52	40	33	28	47	37	30	26	30	25	21	23	20	17	17	15	13	11
9	48	37	29	25	43	33	27	23	27	22	19	21	18	16	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5535	5535	5535
5°	5488	5883	6301
10°	5380	6957	8589
15°	5217	8478	10458
20°	4968	9769	10990
25°	4704	10562	11096
30°	4403	10807	11041
35°	4106	10807	10602
40°	3862	10470	10265
45°	3675	10149	4916
50°	3570	9608	4236
55°	3472	6433	3354
60°	3374	3915	2430
65°	3301	2982	2528
70°	3256	2597	2597
75°	3172	2695	2609
80°	2785	2719	2591
85°	2067	2841	2454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 10149 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	0.9
10°-20°	306.7	3.4
20°-30°	519.4	5.8
30°-40°	630.1	7.1
40°-50°	554.6	6.2
50°-60°	343.2	3.8
60°-70°	186.1	2.1
70°-80°	106.0	1.2
80°-90°	37.2	0.4
90°-100°	140.9	1.6
100°-110°	1004.3	11.3
110°-120°	1363.4	15.3
120°-130°	1109.7	12.4
130°-140°	892.5	10.0
140°-150°	703.6	7.9
150°-160°	514.5	5.8
160°-170°	319.6	3.6
170°-180°	109.0	1.2
0°-30°	909.3	10.2
0°-40°	1539.3	17.2
0°-60°	2437.2	27.3
0°-90°	2766.5	31.0
90°-120°	2508.7	28.1
90°-150°	5214.5	58.4
90°-180°	6158.0	69.0
0°-180°	8924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	762	786	817	852	875	72
15°	702	810	1141	1350	1408	197
25°	594	813	1334	1374	1401	273
35°	469	754	1234	1216	1210	294
45°	362	620	1000	848	484	281
55°	278	432	514	297	268	248
65°	194	243	176	150	149	193
75°	114	101	97	96	94	120
85°	25	34	34	31	30	31
90°	0	7	14	22	22	3
95°	58	107	58	65	79	65
105°	224	343	1305	1667	1103	236
115°	396	481	1125	2338	2732	394
125°	570	647	1060	1853	2192	506
135°	706	784	1067	1526	1752	544
145°	836	907	1074	1330	1471	525
155°	980	1016	1096	1205	1262	450
165°	1089	1103	1125	1154	1175	306
175°	1146	1153	1146	1139	1132	108
180°	1146	1146	1146	1146	1146	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.3	771.3	771.3	771.3	771.3
2.5°	768.8	777.3	781.3	788.9	792.6
5°	761.9	786.4	816.7	851.7	874.7
7.5°	749.6	793.5	889.5	999.9	1047.2
10°	738.3	798.1	954.7	1114.5	1178.8
12.5°	725.8	802.7	1031.2	1224.8	1290.5
15°	702.3	809.6	1141.2	1349.5	1407.7
17.5°	671.9	813.8	1236.5	1415.5	1452.9
20°	650.6	814.6	1279.2	1423.7	1439.1
22.5°	630.5	815.3	1309.3	1403.6	1416.5
25°	594.1	813.3	1334.0	1373.8	1401.4
27.5°	557.8	804.2	1321.8	1353.9	1373.8
30°	531.4	795.1	1304.2	1330.9	1332.5
32.5°	506.3	779.8	1277.9	1285.7	1283.6
35°	468.7	753.8	1233.7	1216.3	1210.2
37.5°	433.6	719.3	1169.1	1141.2	1139.6
40°	412.3	694.3	1117.7	1091.2	1095.8
42.5°	392.2	665.7	1071.3	1040.2	954.0
45°	362.1	619.6	1000.1	847.7	484.4
47.5°	336.1	567.2	919.6	454.1	417.0
50°	319.8	531.3	860.6	399.3	379.4
52.5°	303.5	497.8	784.1	359.0	333.0
55°	277.5	432.3	514.2	297.2	268.1
57.5°	252.7	363.4	314.1	231.0	199.4
60°	235.1	322.5	272.8	186.2	169.3
62.5°	218.8	289.0	232.6	165.1	161.8
65°	194.4	243.4	175.6	150.5	148.9
67.5°	171.5	200.0	133.9	135.4	133.9
70°	155.2	169.0	123.8	125.4	123.8
72.5°	140.1	139.2	113.8	112.8	111.3
75°	114.4	100.6	97.2	95.6	94.1
77.5°	87.5	74.3	78.4	76.8	75.2
80°	67.4	62.8	65.8	64.2	62.7
82.5°	49.8	51.4	53.3	50.4	48.9
85°	25.1	34.3	34.5	31.3	29.8
87.5°	7.5	16.3	16.7	15.6	14.4
90°	0.0	7.0	14.4	21.6	21.6
92.5°	17.3	24.4	31.7	44.8	50.5
95°	57.7	107.0	57.7	65.2	79.3
97.5°	102.4	205.3	423.9	125.1	108.1
100°	137.0	256.8	850.7	250.4	165.8
102.5°	171.6	297.1	1150.6	660.8	361.9
105°	223.5	343.3	1304.9	1667.0	1103.0
107.5°	275.4	365.6	1245.8	2426.1	2272.4
110°	310.0	394.6	1211.2	2549.2	2739.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	344.6	429.2	1176.6	2477.2	2797.2
115°	396.5	481.1	1124.7	2337.6	2732.3
117.5°	449.9	533.0	1111.7	2186.4	2592.5
120°	490.2	567.8	1088.6	2071.5	2494.4
122.5°	519.1	602.3	1059.8	1972.7	2361.8
125°	569.5	647.1	1059.8	1853.3	2191.6
127.5°	611.4	690.3	1061.2	1714.8	2048.9
130°	634.4	719.0	1067.0	1622.1	1939.3
132.5°	663.3	747.8	1067.0	1580.4	1841.3
135°	706.5	784.1	1067.0	1526.3	1751.9
137.5°	742.6	825.7	1067.0	1466.4	1659.6
140°	771.4	848.9	1067.0	1431.5	1607.7
142.5°	800.2	872.1	1072.7	1390.8	1555.8
145°	836.3	906.8	1074.2	1329.7	1470.7
147.5°	879.5	941.6	1082.8	1285.7	1394.3
150°	908.4	964.8	1088.6	1256.5	1348.1
152.5°	937.2	988.0	1088.6	1233.1	1307.8
155°	980.5	1015.7	1095.8	1205.2	1261.6
157.5°	1015.1	1048.9	1104.5	1187.6	1228.5
160°	1038.1	1066.3	1110.2	1175.9	1211.2
162.5°	1055.4	1083.6	1116.0	1169.9	1193.9
165°	1088.6	1102.7	1124.7	1154.0	1175.1
167.5°	1107.4	1120.0	1131.9	1146.6	1159.3
170°	1124.7	1131.7	1131.9	1146.4	1153.5
172.5°	1130.4	1143.1	1137.6	1140.7	1147.7
175°	1146.3	1153.3	1146.3	1138.9	1131.9
177.5°	1146.3	1151.9	1146.3	1146.2	1140.5
180°	1146.3	1146.3	1146.3	1146.3	1146.3

(END OF REPORT)