

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: P621900

Luminaire Tested: VLT-FB-150U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621900
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-940-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

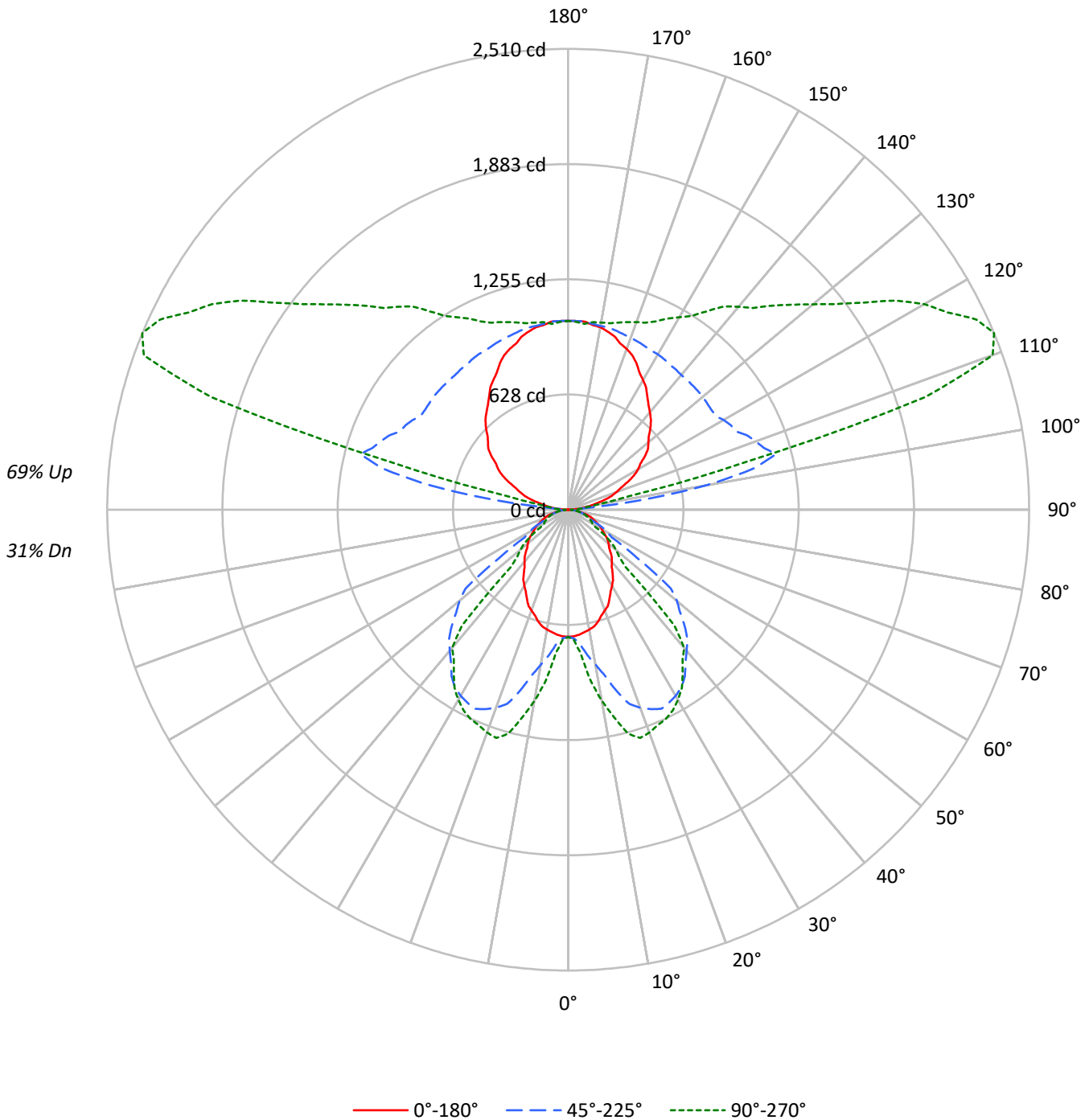
Lumens per Lamp: N/A
Luminaire Lumens: 8008.5 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	4966	4966	4966
5°	4925	5279	5655
10°	4828	6242	7709
15°	4682	7608	9385
20°	4458	8766	9862
25°	4222	9479	9958
30°	3952	9699	9908
35°	3685	9698	9514
40°	3466	9396	9211
45°	3298	9108	4411
50°	3204	8622	3800
55°	3115	5773	3010
60°	3028	3513	2180
65°	2961	2676	2268
70°	2923	2331	2331
75°	2847	2418	2340
80°	2500	2442	2327
85°	1853	2544	2198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 9108 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	0.9
10°-20°	275.2	3.4
20°-30°	466.1	5.8
30°-40°	565.5	7.1
40°-50°	497.7	6.2
50°-60°	308.0	3.8
60°-70°	167.0	2.1
70°-80°	95.1	1.2
80°-90°	33.4	0.4
90°-100°	126.5	1.6
100°-110°	901.3	11.3
110°-120°	1223.6	15.3
120°-130°	995.9	12.4
130°-140°	800.9	10.0
140°-150°	631.5	7.9
150°-160°	461.7	5.8
160°-170°	286.8	3.6
170°-180°	97.8	1.2
0°-30°	816.0	10.2
0°-40°	1381.4	17.2
0°-60°	2187.1	27.3
0°-90°	2482.7	31.0
90°-120°	2251.3	28.1
90°-150°	4679.6	58.4
90°-180°	5526.0	69.0
0°-180°	8008.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	684	706	733	764	785	65
15°	630	726	1024	1211	1263	176
25°	533	730	1197	1233	1258	245
35°	421	676	1107	1092	1086	264
45°	325	556	898	761	435	252
55°	249	388	461	267	241	223
65°	174	218	158	135	134	173
75°	103	90	87	86	84	107
85°	22	31	31	28	27	27
90°	0	6	13	19	19	3
95°	52	96	52	58	71	58
105°	201	308	1171	1496	990	212
115°	356	432	1009	2098	2452	353
125°	511	581	951	1663	1967	454
135°	634	704	958	1370	1572	488
145°	750	814	964	1193	1320	471
155°	880	912	983	1082	1132	404
165°	977	990	1009	1036	1055	274
175°	1029	1035	1029	1022	1016	97
180°	1029	1029	1029	1029	1029	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692.1	692.1	692.1	692.1	692.1
2.5°	689.9	697.6	701.1	708.0	711.3
5°	683.7	705.7	732.9	764.4	785.0
7.5°	672.7	712.1	798.2	897.4	939.7
10°	662.6	716.2	856.7	1000.1	1057.9
12.5°	651.3	720.4	925.4	1099.2	1158.1
15°	630.2	726.5	1024.1	1211.0	1263.3
17.5°	603.0	730.3	1109.7	1270.3	1303.8
20°	583.8	731.0	1147.9	1277.7	1291.4
22.5°	565.8	731.7	1175.0	1259.6	1271.2
25°	533.2	729.9	1197.2	1232.9	1257.7
27.5°	500.5	721.7	1186.2	1215.0	1232.9
30°	476.9	713.5	1170.5	1194.4	1195.8
32.5°	454.4	699.8	1146.8	1153.8	1151.9
35°	420.6	676.5	1107.1	1091.5	1086.0
37.5°	389.1	645.5	1049.2	1024.1	1022.7
40°	370.0	623.1	1003.0	979.2	983.3
42.5°	352.0	597.4	961.4	933.5	856.2
45°	325.0	556.1	897.5	760.7	434.7
47.5°	301.6	509.0	825.2	407.5	374.2
50°	287.0	476.8	772.3	358.3	340.4
52.5°	272.4	446.8	703.7	322.2	298.8
55°	249.0	387.9	461.4	266.7	240.6
57.5°	226.8	326.1	281.9	207.3	178.9
60°	211.0	289.4	244.8	167.1	151.9
62.5°	196.4	259.4	208.8	148.2	145.2
65°	174.4	218.5	157.6	135.0	133.6
67.5°	153.9	179.5	120.1	121.5	120.1
70°	139.3	151.7	111.1	112.5	111.1
72.5°	125.8	124.9	102.1	101.3	99.9
75°	102.7	90.3	87.2	85.8	84.4
77.5°	78.5	66.7	70.3	68.9	67.5
80°	60.5	56.4	59.1	57.6	56.3
82.5°	44.7	46.1	47.8	45.3	43.9
85°	22.5	30.8	30.9	28.1	26.7
87.5°	6.8	14.6	15.0	14.0	12.9
90°	0.0	6.3	12.9	19.4	19.4
92.5°	15.5	21.9	28.5	40.2	45.3
95°	51.8	96.0	51.8	58.5	71.2
97.5°	91.9	184.2	380.4	112.2	97.0
100°	122.9	230.5	763.4	224.7	148.8
102.5°	154.0	266.6	1032.6	593.0	324.8
105°	200.6	308.1	1171.0	1496.0	989.9
107.5°	247.1	328.1	1118.0	2177.2	2039.3
110°	278.2	354.1	1086.9	2287.7	2458.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	309.3	385.2	1055.9	2223.1	2510.3
115°	355.8	431.7	1009.3	2097.8	2452.0
117.5°	403.7	478.4	997.6	1962.2	2326.5
120°	439.9	509.5	976.9	1859.0	2238.5
122.5°	465.8	540.5	951.1	1770.3	2119.5
125°	511.1	580.7	951.1	1663.2	1966.8
127.5°	548.6	619.5	952.3	1538.9	1838.7
130°	569.3	645.3	957.5	1455.7	1740.4
132.5°	595.2	671.1	957.5	1418.3	1652.4
135°	634.0	703.6	957.5	1369.7	1572.2
137.5°	666.4	741.0	957.5	1316.0	1489.3
140°	692.3	761.9	957.5	1284.6	1442.8
142.5°	718.1	782.7	962.7	1248.1	1396.2
145°	750.5	813.8	964.0	1193.3	1319.8
147.5°	789.3	845.0	971.8	1153.8	1251.3
150°	815.2	865.8	976.9	1127.6	1209.8
152.5°	841.1	886.6	976.9	1106.6	1173.6
155°	879.9	911.5	983.4	1081.6	1132.2
157.5°	910.9	941.3	991.2	1065.8	1102.4
160°	931.6	957.0	996.3	1055.3	1086.9
162.5°	947.2	972.5	1001.5	1049.9	1071.4
165°	976.9	989.6	1009.3	1035.6	1054.6
167.5°	993.8	1005.1	1015.8	1029.0	1040.3
170°	1009.3	1015.6	1015.8	1028.8	1035.2
172.5°	1014.5	1025.8	1020.9	1023.7	1030.0
175°	1028.7	1035.0	1028.7	1022.1	1015.8
177.5°	1028.7	1033.8	1028.7	1028.6	1023.5
180°	1028.7	1028.7	1028.7	1028.7	1028.7

(END OF REPORT)