

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: P621780

Luminaire Tested: VLT-FB-050U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621780
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-050U-075D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

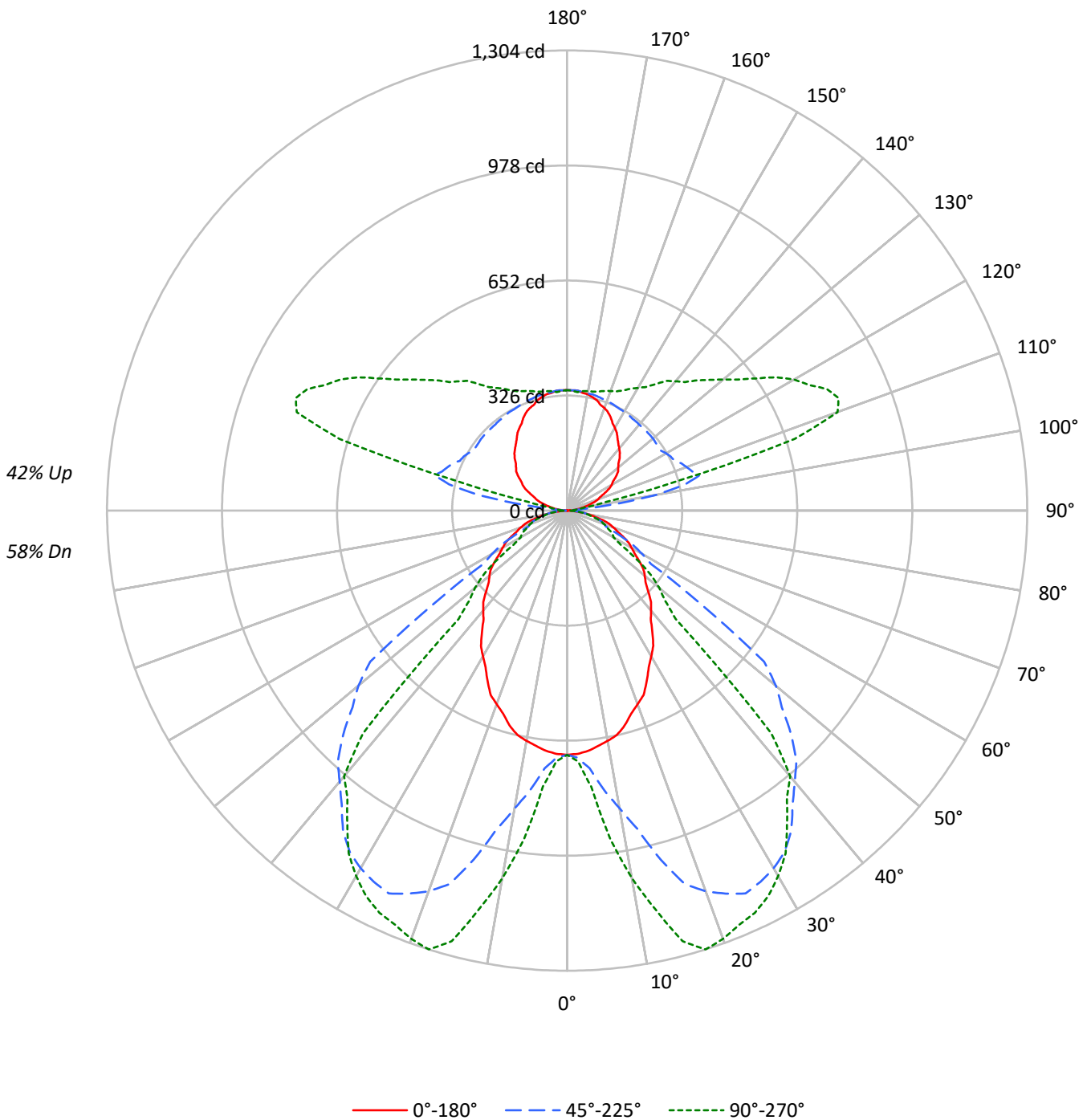
Lumens per Lamp: N/A
Luminaire Lumens: 4313.9 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.2
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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58
1	100	96	92	89	93	90	87	84	78	75	73	67	65	64	57	56	55	50
2	92	85	79	74	85	79	74	70	69	65	62	60	57	54	51	49	47	43
3	84	75	68	62	78	70	64	59	61	57	53	53	50	47	46	43	41	37
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	41	38	36	32
5	71	60	52	46	66	56	49	44	50	44	40	43	39	35	37	34	31	28
6	66	54	46	40	61	51	44	38	45	39	35	39	35	31	34	31	28	25
7	61	49	41	35	57	46	39	34	41	35	31	36	31	28	31	28	25	22
8	56	44	37	31	53	42	35	30	37	31	27	33	28	25	29	25	22	20
9	53	40	33	28	49	38	32	27	34	29	25	30	26	22	26	23	20	18
10	49	37	30	25	46	35	29	24	31	26	22	28	23	20	24	21	18	16

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	1.7
10°-20°	275.2	6.4
20°-30°	466.1	10.8
30°-40°	565.5	13.1
40°-50°	497.7	11.5
50°-60°	308.0	7.1
60°-70°	167.0	3.9
70°-80°	95.1	2.2
80°-90°	31.9	0.7
90°-100°	41.9	1.0
100°-110°	298.9	6.9
110°-120°	405.8	9.4
120°-130°	330.3	7.7
130°-140°	265.7	6.2
140°-150°	209.4	4.9
150°-160°	153.1	3.5
160°-170°	95.1	2.2
170°-180°	32.4	0.8
0°-30°	816.0	18.9
0°-40°	1381.4	32.0
0°-60°	2187.1	50.7
0°-90°	2481.1	57.5
90°-120°	746.7	17.3
90°-150°	1552.1	36.0
90°-180°	1833.0	42.5
0°-180°	4313.9	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	2	4	6	6	2
95°	17	32	17	19	24	19
105°	66	102	388	496	328	70
115°	118	143	335	696	813	117
125°	170	193	315	552	652	151
135°	210	233	318	454	522	162
145°	249	270	320	396	438	156
155°	292	302	326	359	376	134
165°	324	328	335	344	350	91
175°	341	343	341	339	337	32
180°	341	341	341	341	341	



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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	13.8	13.2	11.4	10.3
90°	0.0	2.1	4.3	6.4	6.4
92.5°	5.2	7.2	9.4	13.3	15.0
95°	17.2	31.9	17.2	19.4	23.6
97.5°	30.5	61.1	126.2	37.2	32.2
100°	40.8	76.4	253.2	74.5	49.4
102.5°	51.1	88.4	342.5	196.7	107.7
105°	66.5	102.2	388.4	496.2	328.3
107.5°	82.0	108.8	370.8	722.1	676.4
110°	92.3	117.5	360.5	758.8	815.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.6	127.8	350.2	737.4	832.6
115°	118.0	143.2	334.8	695.8	813.3
117.5°	133.9	158.7	330.9	650.8	771.7
120°	145.9	169.0	324.0	616.6	742.5
122.5°	154.5	179.3	315.4	587.2	703.0
125°	169.5	192.6	315.4	551.6	652.4
127.5°	182.0	205.5	315.9	510.4	609.9
130°	188.8	214.0	317.6	482.8	577.2
132.5°	197.4	222.6	317.6	470.4	548.1
135°	210.3	233.4	317.6	454.3	521.5
137.5°	221.0	245.8	317.6	436.5	494.0
140°	229.6	252.7	317.6	426.1	478.5
142.5°	238.2	259.6	319.3	414.0	463.1
145°	248.9	269.9	319.7	395.8	437.8
147.5°	261.8	280.3	322.3	382.7	415.0
150°	270.4	287.2	324.0	374.0	401.3
152.5°	279.0	294.1	324.0	367.0	389.3
155°	291.8	302.3	326.2	358.7	375.5
157.5°	302.1	312.2	328.8	353.5	365.7
160°	309.0	317.4	330.5	350.0	360.5
162.5°	314.2	322.6	332.2	348.2	355.4
165°	324.0	328.2	334.8	343.5	349.8
167.5°	329.6	333.4	336.9	341.3	345.1
170°	334.8	336.9	336.9	341.2	343.3
172.5°	336.5	340.3	338.6	339.5	341.6
175°	341.2	343.3	341.2	339.0	336.9
177.5°	341.2	342.9	341.2	341.2	339.5
180°	341.2	341.2	341.2	341.2	341.2

(END OF REPORT)