

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: P621814

Luminaire Tested: VLT-FB-075U-125D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621814
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-075U-125D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

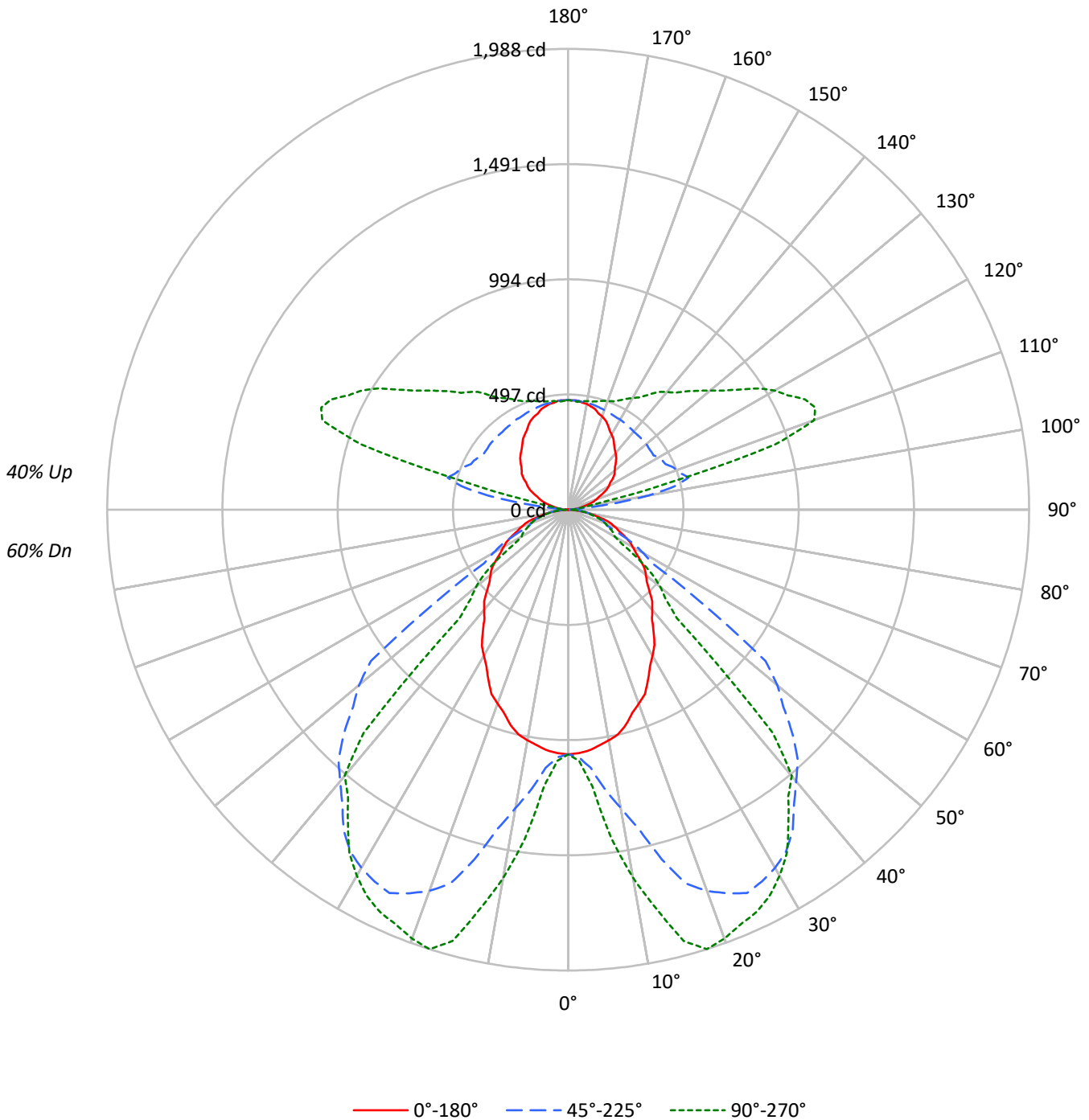
Lumens per Lamp: N/A
Luminaire Lumens: 6319.7 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 59.5
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									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60																			
1	101	97	93	90	94	90	87	84	79	77	75	68	67	65	59	58	56	52																			
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45																			
3	85	76	68	63	79	71	65	60	62	58	54	55	51	48	47	45	42	39																			
4	78	67	60	54	73	63	57	51	56	51	46	49	45	42	43	39	37	34																			
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	39	35	32	30																			
6	66	54	46	41	62	51	44	39	46	40	35	40	36	32	35	32	29	26																			
7	61	49	41	36	57	46	39	34	41	36	31	37	32	29	32	28	26	23																			
8	57	45	37	32	53	42	35	30	38	32	28	34	29	26	30	26	23	21																			
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21	19																			
10	50	37	30	25	46	36	29	25	32	26	23	28	24	21	25	22	19	17																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7571	7571	7571
5°	7507	8048	8620
10°	7360	9516	11750
15°	7137	11598	14306
20°	6796	13363	15033
25°	6435	14449	15179
30°	6024	14784	15104
35°	5617	14785	14503
40°	5283	14323	14042
45°	5027	13885	6724
50°	4884	13143	5794
55°	4749	8800	4588
60°	4617	5355	3324
65°	4515	4079	3459
70°	4454	3554	3554
75°	4339	3688	3568
80°	3810	3723	3546
85°	2824	3886	3351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13885 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	1.8
10°-20°	419.5	6.6
20°-30°	710.5	11.2
30°-40°	862.0	13.6
40°-50°	758.7	12.0
50°-60°	469.5	7.4
60°-70°	254.5	4.0
70°-80°	145.0	2.3
80°-90°	48.5	0.8
90°-100°	58.1	0.9
100°-110°	413.9	6.5
110°-120°	561.9	8.9
120°-130°	457.3	7.2
130°-140°	367.8	5.8
140°-150°	290.0	4.6
150°-160°	212.0	3.4
160°-170°	131.7	2.1
170°-180°	44.9	0.7
0°-30°	1243.8	19.7
0°-40°	2105.8	33.3
0°-60°	3334.0	52.8
0°-90°	3782.0	59.8
90°-120°	1033.9	16.4
90°-150°	2149.1	34.0
90°-180°	2538.0	40.2
0°-180°	6319.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1042	1076	1117	1165	1197	98
15°	961	1108	1561	1846	1926	269
25°	813	1113	1825	1879	1917	373
35°	641	1031	1688	1664	1656	402
45°	495	848	1368	1160	663	384
55°	380	591	703	406	367	340
65°	266	333	240	206	204	264
75°	156	138	133	131	129	164
85°	34	47	47	43	41	42
90°	0	3	6	9	9	2
95°	24	44	24	27	33	27
105°	92	142	538	687	455	97
115°	163	198	464	963	1126	162
125°	235	267	437	764	903	209
135°	291	323	440	629	722	224
145°	345	374	443	548	606	216
155°	404	419	452	497	520	186
165°	449	454	464	476	484	126
175°	472	475	472	469	466	45
180°	472	472	472	472	472	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.1	1055.1	1055.1	1055.1	1055.1
2.5°	1051.6	1063.4	1068.8	1079.2	1084.2
5°	1042.2	1075.7	1117.3	1165.1	1196.6
7.5°	1025.5	1085.4	1216.8	1367.9	1432.5
10°	1010.0	1091.8	1306.0	1524.6	1612.6
12.5°	992.9	1098.1	1410.6	1675.6	1765.3
15°	960.7	1107.5	1561.2	1846.0	1925.7
17.5°	919.1	1113.3	1691.5	1936.3	1987.5
20°	889.9	1114.3	1749.9	1947.6	1968.6
22.5°	862.5	1115.4	1791.0	1920.1	1937.7
25°	812.7	1112.6	1824.9	1879.4	1917.1
27.5°	763.0	1100.2	1808.2	1852.1	1879.4
30°	727.0	1087.6	1784.2	1820.7	1822.8
32.5°	692.7	1066.7	1748.2	1758.8	1755.9
35°	641.2	1031.2	1687.7	1663.9	1655.5
37.5°	593.2	984.0	1599.3	1561.1	1559.0
40°	564.0	949.8	1529.0	1492.7	1499.0
42.5°	536.5	910.6	1465.5	1422.9	1305.1
45°	495.4	847.6	1368.2	1159.6	662.6
47.5°	459.8	776.0	1257.9	621.2	570.4
50°	437.5	726.8	1177.3	546.2	519.0
52.5°	415.2	681.0	1072.7	491.1	455.5
55°	379.6	591.3	703.4	406.5	366.7
57.5°	345.7	497.1	429.7	316.0	272.8
60°	321.7	441.2	373.1	254.7	231.6
62.5°	299.4	395.4	318.2	225.9	221.3
65°	265.9	333.0	240.2	205.8	203.7
67.5°	234.6	273.6	183.1	185.2	183.1
70°	212.3	231.2	169.4	171.5	169.4
72.5°	191.7	190.5	155.7	154.4	152.3
75°	156.5	137.7	133.0	130.8	128.7
77.5°	119.7	101.6	107.2	105.0	102.9
80°	92.2	85.9	90.1	87.9	85.8
82.5°	68.2	70.3	72.9	69.0	66.9
85°	34.3	46.9	47.2	42.8	40.7
87.5°	10.3	20.9	20.1	17.2	15.5
90°	0.0	2.9	5.9	8.9	8.9
92.5°	7.1	10.0	13.1	18.5	20.8
95°	23.8	44.1	23.8	26.9	32.7
97.5°	42.2	84.6	174.7	51.5	44.6
100°	56.5	105.8	350.6	103.2	68.3
102.5°	70.7	122.4	474.2	272.3	149.2
105°	92.1	141.5	537.8	687.0	454.6
107.5°	113.5	150.7	513.4	999.9	936.5
110°	127.8	162.6	499.2	1050.6	1129.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.0	176.9	484.9	1020.9	1152.8
115°	163.4	198.3	463.5	963.4	1126.1
117.5°	185.4	219.7	458.2	901.1	1068.4
120°	202.0	234.0	448.7	853.7	1028.0
122.5°	213.9	248.2	436.8	813.0	973.4
125°	234.7	266.7	436.8	763.8	903.2
127.5°	252.0	284.5	437.4	706.7	844.4
130°	261.5	296.3	439.7	668.5	799.3
132.5°	273.4	308.2	439.7	651.4	758.8
135°	291.2	323.1	439.7	629.0	722.0
137.5°	306.0	340.3	439.7	604.4	684.0
140°	317.9	349.9	439.7	589.9	662.6
142.5°	329.8	359.4	442.1	573.2	641.2
145°	344.7	373.7	442.7	548.0	606.1
147.5°	362.5	388.1	446.3	529.9	574.6
150°	374.4	397.6	448.7	517.8	555.6
152.5°	386.3	407.2	448.7	508.2	539.0
155°	404.1	418.6	451.6	496.7	520.0
157.5°	418.3	432.3	455.2	489.4	506.3
160°	427.9	439.5	457.6	484.6	499.2
162.5°	435.0	446.6	459.9	482.2	492.0
165°	448.7	454.5	463.5	475.6	484.3
167.5°	456.4	461.6	466.5	472.5	477.8
170°	463.5	466.4	466.5	472.5	475.4
172.5°	465.9	471.1	468.9	470.1	473.0
175°	472.4	475.3	472.4	469.4	466.5
177.5°	472.4	474.7	472.4	472.4	470.0
180°	472.4	472.4	472.4	472.4	472.4

(END OF REPORT)