

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: P621816

Luminaire Tested: VLT-FB-075U-125D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621816
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-940-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

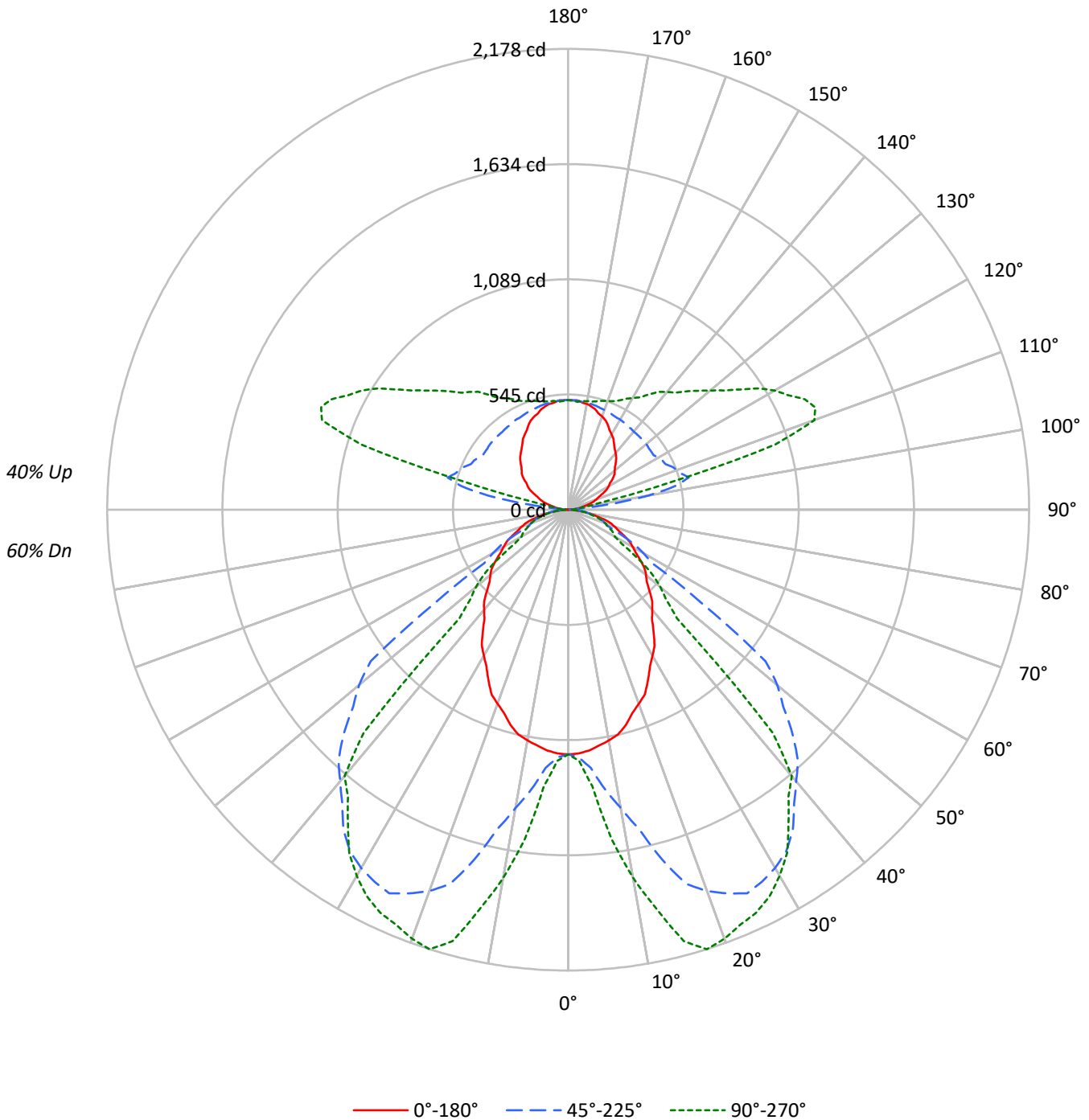
Lumens per Lamp: N/A
Luminaire Lumens: 6926.6 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 59.5
Input Voltage (V): 120
Input Current (Ain): 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	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°	8298	8298	8298
5°	8228	8821	9447
10°	8066	10430	12879
15°	7823	12712	15681
20°	7449	14646	16477
25°	7053	15837	16638
30°	6602	16203	16554
35°	6157	16205	15895
40°	5791	15698	15390
45°	5510	15218	7371
50°	5353	14406	6350
55°	5205	9645	5028
60°	5060	5870	3643
65°	4948	4469	3792
70°	4882	3896	3896
75°	4758	4040	3909
80°	4178	4079	3885
85°	3096	4257	3680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 15218 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.8
10°-20°	459.8	6.6
20°-30°	778.8	11.2
30°-40°	944.7	13.6
40°-50°	831.6	12.0
50°-60°	514.6	7.4
60°-70°	279.0	4.0
70°-80°	158.9	2.3
80°-90°	53.1	0.8
90°-100°	63.7	0.9
100°-110°	453.7	6.5
110°-120°	615.9	8.9
120°-130°	501.3	7.2
130°-140°	403.2	5.8
140°-150°	317.8	4.6
150°-160°	232.4	3.4
160°-170°	144.4	2.1
170°-180°	49.2	0.7
0°-30°	1363.3	19.7
0°-40°	2308.0	33.3
0°-60°	3654.2	52.8
0°-90°	4145.2	59.8
90°-120°	1133.2	16.4
90°-150°	2355.5	34.0
90°-180°	2781.0	40.1
0°-180°	6926.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1142	1179	1225	1277	1312	108
15°	1053	1214	1711	2023	2111	295
25°	891	1219	2000	2060	2101	409
35°	703	1130	1850	1824	1814	440
45°	543	929	1500	1271	726	421
55°	416	648	771	446	402	372
65°	291	365	263	226	223	289
75°	172	151	146	143	141	179
85°	38	51	52	47	45	46
90°	0	3	6	10	10	3
95°	26	48	26	30	36	29
105°	101	155	589	753	498	106
115°	179	217	508	1056	1234	178
125°	257	292	479	837	990	229
135°	319	354	482	689	791	246
145°	378	410	485	601	664	237
155°	443	459	495	544	570	203
165°	492	498	508	521	531	138
175°	518	521	518	514	511	49
180°	518	518	518	518	518	



TEST NUMBER: P621816

CATALOG NUMBER: VLT-FB-075U-125D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.4	1156.4	1156.4	1156.4	1156.4
2.5°	1152.6	1165.5	1171.4	1182.8	1188.4
5°	1142.3	1179.1	1224.6	1277.0	1311.5
7.5°	1124.0	1189.7	1333.6	1499.3	1570.1
10°	1107.0	1196.7	1431.4	1671.0	1767.5
12.5°	1088.2	1203.6	1546.1	1836.5	1934.8
15°	1053.0	1213.8	1711.1	2023.3	2110.7
17.5°	1007.4	1220.2	1854.0	2122.3	2178.3
20°	975.4	1221.3	1917.9	2134.7	2157.7
22.5°	945.3	1222.5	1963.1	2104.5	2123.8
25°	890.8	1219.4	2000.2	2059.9	2101.3
27.5°	836.3	1205.8	1981.9	2030.0	2059.9
30°	796.8	1192.1	1955.5	1995.5	1997.8
32.5°	759.2	1169.2	1916.0	1927.7	1924.5
35°	702.8	1130.2	1849.8	1823.7	1814.5
37.5°	650.1	1078.5	1752.9	1711.0	1708.7
40°	618.2	1041.0	1675.8	1636.0	1642.9
42.5°	588.1	998.1	1606.3	1559.6	1430.5
45°	542.9	929.0	1499.6	1270.9	726.3
47.5°	503.9	850.5	1378.7	680.8	625.2
50°	479.5	796.6	1290.4	598.7	568.8
52.5°	455.0	746.4	1175.7	538.3	499.2
55°	416.0	648.1	770.9	445.6	401.9
57.5°	378.9	544.8	471.0	346.3	299.0
60°	352.6	483.6	409.0	279.1	253.8
62.5°	328.1	433.4	348.8	247.6	242.6
65°	291.4	365.0	263.2	225.6	223.3
67.5°	257.1	299.9	200.7	203.0	200.7
70°	232.7	253.4	185.7	188.0	185.7
72.5°	210.1	208.7	170.6	169.2	166.9
75°	171.6	150.9	145.7	143.3	141.0
77.5°	131.2	111.4	117.5	115.1	112.8
80°	101.1	94.2	98.7	96.3	94.0
82.5°	74.7	77.0	79.9	75.6	73.3
85°	37.6	51.4	51.7	47.0	44.7
87.5°	11.3	22.9	22.0	18.8	17.0
90°	0.0	3.2	6.5	9.8	9.8
92.5°	7.8	11.0	14.3	20.2	22.8
95°	26.1	48.3	26.1	29.5	35.8
97.5°	46.2	92.7	191.5	56.5	48.8
100°	61.9	116.0	384.3	113.1	74.9
102.5°	77.5	134.2	519.7	298.5	163.5
105°	101.0	155.1	589.4	753.0	498.3
107.5°	124.4	165.2	562.7	1095.9	1026.5
110°	140.0	178.2	547.1	1151.5	1237.5

TEST NUMBER: P621816

CATALOG NUMBER: VLT-FB-075U-125D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	155.7	193.9	531.5	1119.0	<i>1263.5</i>
115°	179.1	217.3	508.0	1055.9	<i>1234.2</i>
117.5°	203.2	240.8	502.2	987.6	<i>1171.1</i>
120°	221.4	256.5	491.7	935.7	<i>1126.8</i>
122.5°	234.5	272.0	478.7	891.1	<i>1066.8</i>
125°	257.3	292.3	478.7	837.2	<i>990.0</i>
127.5°	276.2	311.8	479.4	774.6	<i>925.5</i>
130°	286.6	324.8	482.0	732.7	<i>876.0</i>
132.5°	299.6	337.8	482.0	713.9	<i>831.7</i>
135°	319.1	354.2	482.0	689.4	<i>791.3</i>
137.5°	335.4	373.0	482.0	662.4	<i>749.7</i>
140°	348.5	383.5	482.0	646.6	<i>726.2</i>
142.5°	361.5	394.0	484.6	628.3	<i>702.8</i>
145°	377.8	409.6	485.2	600.7	<i>664.3</i>
147.5°	397.3	425.3	489.1	580.8	<i>629.8</i>
150°	410.3	435.8	491.7	567.6	<i>609.0</i>
152.5°	423.4	446.3	491.7	557.0	<i>590.7</i>
155°	442.9	458.8	495.0	544.4	<i>569.9</i>
157.5°	458.5	473.8	498.9	536.4	<i>554.9</i>
160°	468.9	481.7	501.5	531.2	<i>547.1</i>
162.5°	476.8	489.5	504.1	528.5	<i>539.3</i>
165°	491.7	498.1	508.0	521.3	<i>530.8</i>
167.5°	500.2	505.9	511.3	517.9	<i>523.7</i>
170°	508.0	511.2	511.3	517.9	<i>521.0</i>
172.5°	510.6	516.4	513.9	515.3	<i>518.4</i>
175°	517.8	521.0	517.8	514.5	<i>511.3</i>
177.5°	517.8	520.3	517.8	517.7	<i>515.2</i>
180°	517.8	517.8	517.8	517.8	<i>517.8</i>

(END OF REPORT)