

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: P621745

Luminaire Tested: VLT-FB-025U-050D-830-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621745
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-025U-050D-830-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

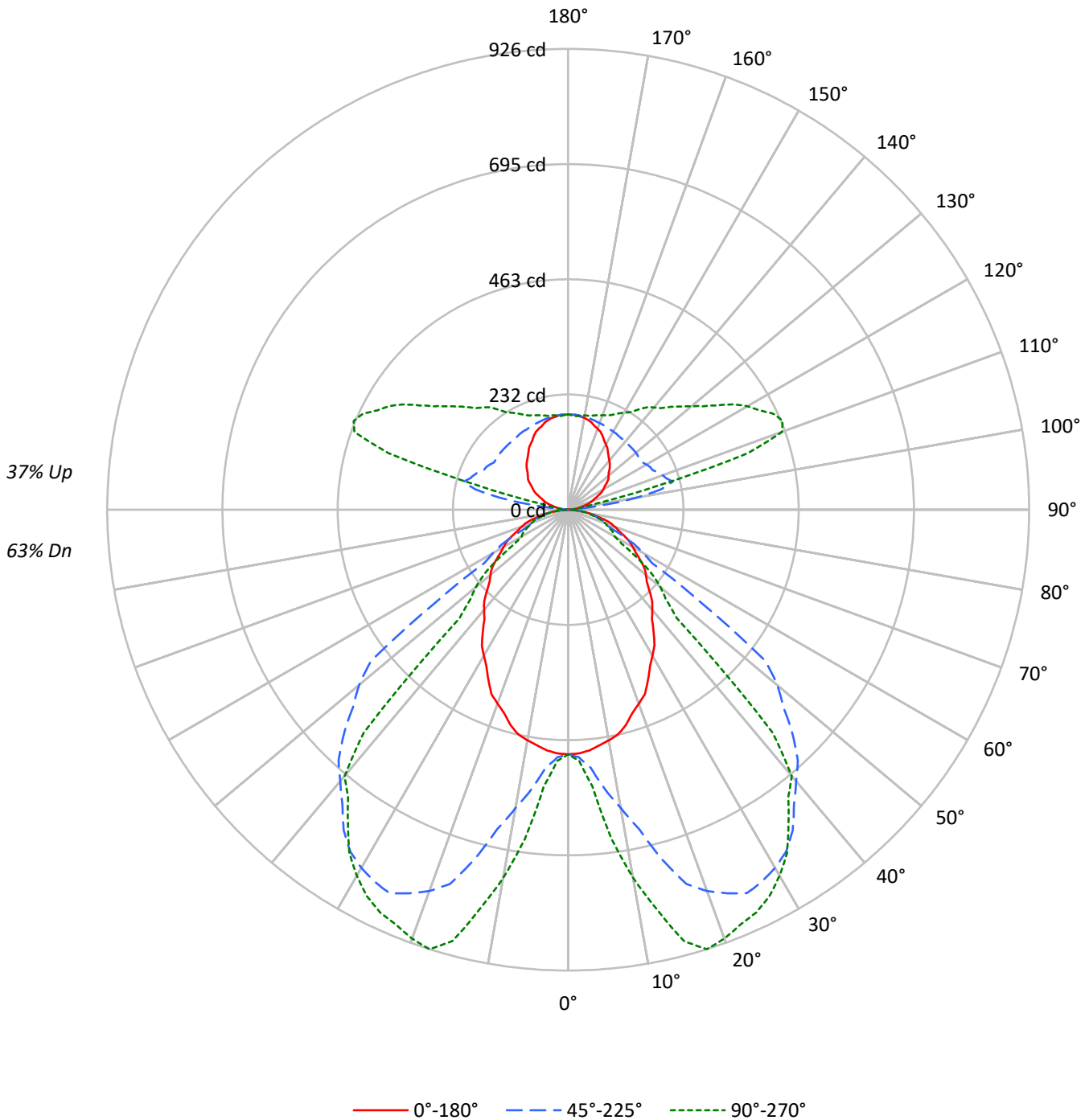
Lumens per Lamp: N/A
Luminaire Lumens: 2788.6 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.7
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	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	101	97	94	90	95	92	88	85	81	78	76	71	69	67	62	60	59	55
2	93	86	80	75	87	81	76	71	72	68	64	63	60	58	55	53	51	47
3	85	76	69	64	80	72	66	61	64	59	55	56	53	50	49	47	44	41
4	78	68	60	54	73	64	57	52	57	52	47	51	46	43	45	41	39	36
5	72	61	53	47	68	58	50	45	52	46	41	46	41	38	40	37	34	31
6	67	55	47	41	63	52	45	40	47	41	36	42	37	33	37	33	30	28
7	62	50	42	36	58	47	40	35	42	36	32	38	33	30	34	30	27	25
8	57	45	38	32	54	43	36	31	39	33	29	35	30	26	31	27	24	22
9	54	41	34	29	50	39	32	28	36	30	26	32	27	24	29	25	22	20
10	50	38	31	26	47	36	30	25	33	27	23	30	25	22	26	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3528	3528	3528
5°	3498	3749	4016
10°	3429	4434	5474
15°	3325	5403	6665
20°	3166	6226	7004
25°	2998	6732	7072
30°	2806	6887	7037
35°	2617	6888	6757
40°	2462	6673	6542
45°	2342	6469	6133
50°	2275	6123	5699
55°	2212	4100	2137
60°	2151	2494	1549
65°	2104	1900	1611
70°	2075	1655	1655
75°	2021	1716	1661
80°	1777	1736	1653
85°	1317	1811	1564

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 6469 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	1.9
10°-20°	195.5	7.0
20°-30°	331.0	11.9
30°-40°	401.6	14.4
40°-50°	353.5	12.7
50°-60°	218.7	7.8
60°-70°	118.6	4.3
70°-80°	67.5	2.4
80°-90°	22.5	0.8
90°-100°	23.5	0.8
100°-110°	167.4	6.0
110°-120°	227.3	8.2
120°-130°	185.0	6.6
130°-140°	148.8	5.3
140°-150°	117.3	4.2
150°-160°	85.8	3.1
160°-170°	53.3	1.9
170°-180°	18.2	0.7
0°-30°	579.5	20.8
0°-40°	981.1	35.2
0°-60°	1553.3	55.7
0°-90°	1761.9	63.2
90°-120°	418.3	15.0
90°-150°	869.5	31.2
90°-180°	1027.0	36.8
0°-180°	2788.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	486	501	520	543	558	46
15°	448	516	727	860	897	125
25°	379	518	850	876	893	174
35°	299	480	786	775	771	187
45°	231	395	637	540	309	179
55°	177	276	328	189	171	158
65°	124	155	112	96	95	123
75°	73	64	62	61	60	76
85°	16	22	22	20	19	19
90°	0	1	2	4	4	1
95°	10	18	10	11	13	11
105°	37	57	218	278	184	39
115°	66	80	188	390	456	66
125°	95	108	177	309	365	84
135°	118	131	178	254	292	91
145°	139	151	179	222	245	88
155°	164	169	183	201	210	75
165°	182	184	188	192	196	51
175°	191	192	191	190	189	18
180°	191	191	191	191	191	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	491.6	491.6	491.6	491.6	491.6
2.5°	490.0	495.4	498.0	502.8	505.1
5°	485.6	501.2	520.5	542.8	557.5
7.5°	477.8	505.7	566.9	637.3	667.4
10°	470.6	508.7	608.5	710.3	751.3
12.5°	462.6	511.6	657.2	780.6	822.5
15°	447.6	516.0	727.3	860.1	897.2
17.5°	428.2	518.7	788.1	902.1	926.0
20°	414.6	519.2	815.3	907.4	917.2
22.5°	401.8	519.7	834.4	894.6	902.8
25°	378.7	518.4	850.2	875.6	893.2
27.5°	355.5	512.6	842.4	862.9	875.6
30°	338.7	506.7	831.2	848.3	849.2
32.5°	322.7	497.0	814.5	819.4	818.1
35°	298.7	480.4	786.3	775.2	771.3
37.5°	276.4	458.4	745.1	727.3	726.3
40°	262.8	442.5	712.4	695.4	698.4
42.5°	250.0	424.3	682.8	663.0	608.1
45°	230.8	394.9	637.4	540.2	308.7
47.5°	214.2	361.5	586.1	289.4	265.8
50°	203.8	338.6	548.5	254.5	241.8
52.5°	193.4	317.3	499.7	228.8	212.2
55°	176.8	275.5	327.7	189.4	170.8
57.5°	161.1	231.6	200.2	147.2	127.1
60°	149.9	205.5	173.8	118.6	107.9
62.5°	139.5	184.2	148.3	105.3	103.1
65°	123.9	155.1	111.9	95.9	94.9
67.5°	109.3	127.5	85.3	86.3	85.3
70°	98.9	107.7	78.9	79.9	78.9
72.5°	89.3	88.7	72.5	71.9	70.9
75°	72.9	64.1	61.9	60.9	59.9
77.5°	55.7	47.3	50.0	48.9	48.0
80°	43.0	40.0	42.0	40.9	40.0
82.5°	31.8	32.7	34.0	32.1	31.2
85°	16.0	21.8	22.0	20.0	19.0
87.5°	4.8	9.7	9.3	7.9	7.1
90°	0.0	1.2	2.4	3.6	3.6
92.5°	2.9	4.1	5.3	7.5	8.4
95°	9.6	17.8	9.6	10.9	13.2
97.5°	17.1	34.2	70.7	20.9	18.0
100°	22.8	42.8	141.8	41.8	27.6
102.5°	28.6	49.5	191.9	110.2	60.3
105°	37.3	57.2	217.6	277.9	183.9
107.5°	45.9	61.0	207.7	404.5	378.9
110°	51.7	65.8	201.9	425.1	456.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.5	71.6	196.2	413.0	466.4
115°	66.1	80.2	187.5	389.8	455.6
117.5°	75.0	88.9	185.4	364.6	432.3
120°	81.7	94.7	181.5	345.4	415.9
122.5°	86.5	100.4	176.7	328.9	393.8
125°	95.0	107.9	176.7	309.0	365.4
127.5°	101.9	115.1	176.9	285.9	341.6
130°	105.8	119.9	177.9	270.5	323.4
132.5°	110.6	124.7	177.9	263.5	307.0
135°	117.8	130.7	177.9	254.5	292.1
137.5°	123.8	137.7	177.9	244.5	276.7
140°	128.6	141.6	177.9	238.7	268.1
142.5°	133.4	145.4	178.9	231.9	259.4
145°	139.4	151.2	179.1	221.7	245.2
147.5°	146.7	157.0	180.6	214.4	232.5
150°	151.5	160.9	181.5	209.5	224.8
152.5°	156.3	164.7	181.5	205.6	218.1
155°	163.5	169.4	182.7	201.0	210.4
157.5°	169.3	174.9	184.2	198.0	204.8
160°	173.1	177.8	185.1	196.1	201.9
162.5°	176.0	180.7	186.1	195.1	199.1
165°	181.5	183.9	187.5	192.4	195.9
167.5°	184.6	186.8	188.7	191.2	193.3
170°	187.5	188.7	188.7	191.2	192.3
172.5°	188.5	190.6	189.7	190.2	191.4
175°	191.1	192.3	191.1	189.9	188.7
177.5°	191.1	192.1	191.1	191.1	190.2
180°	191.1	191.1	191.1	191.1	191.1

(END OF REPORT)