

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: P621793

Luminaire Tested: VLT-FB-075U-050D-830-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621793
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-050D-830-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

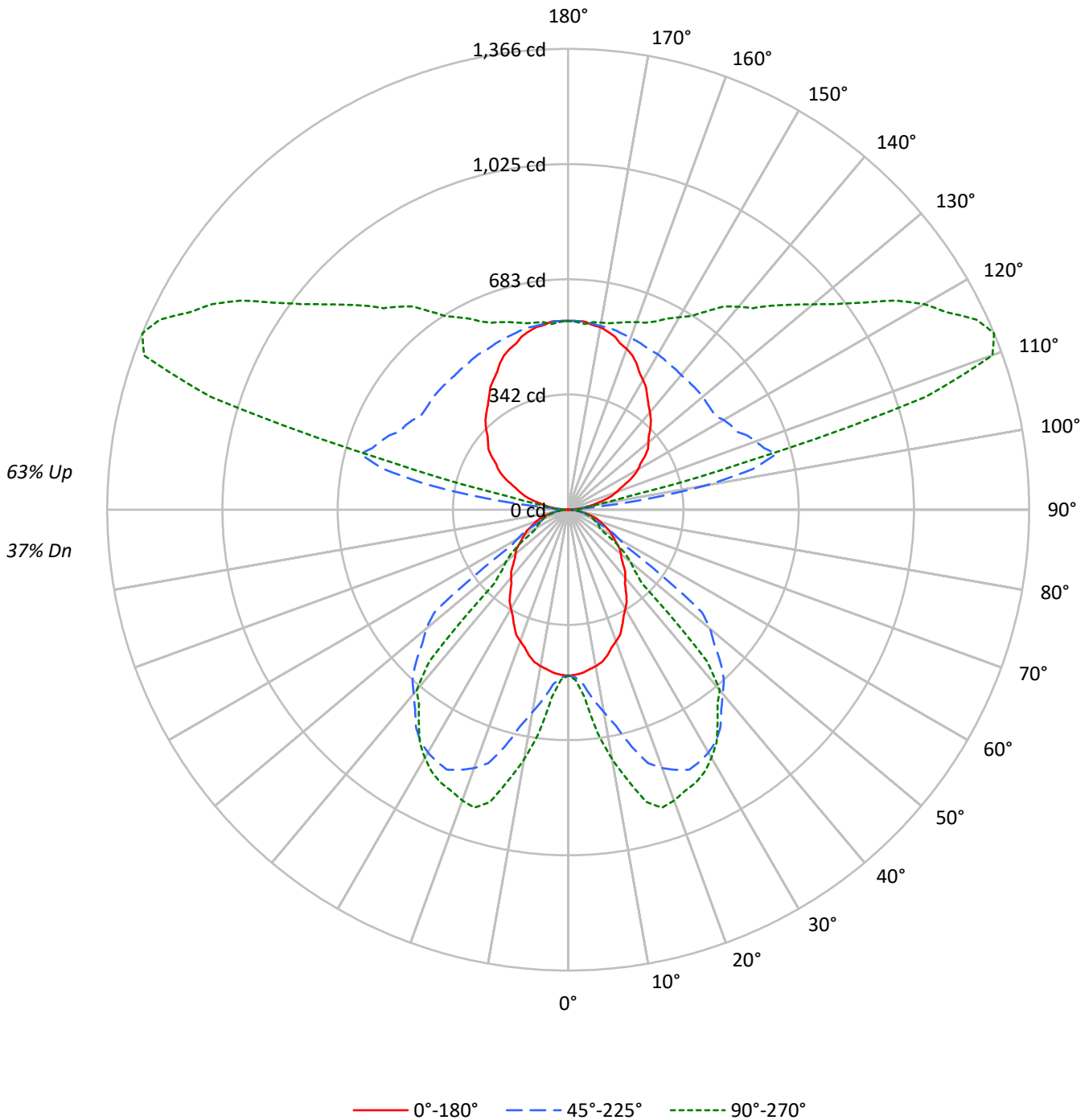
Lumens per Lamp: N/A
Luminaire Lumens: 4769.7 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 35.2
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	104	104	104	104	94	94	94	94	76	76	76		59	59	59		44	44	44	37
1	95	91	88	84	86	83	80	77	67	65	63		53	52	50		40	39	38	32
2	87	80	74	70	79	73	68	64	59	56	53		47	45	43		35	34	33	28
3	80	71	64	58	72	65	59	54	53	49	45		42	39	37		32	30	28	24
4	73	63	55	50	66	57	51	46	47	42	39		38	34	32		29	27	25	21
5	67	56	48	43	61	51	45	40	42	37	33		34	30	28		26	24	22	18
6	62	50	43	37	56	46	39	34	38	33	29		31	27	24		24	21	19	16
7	57	45	38	32	52	42	35	30	34	29	26		28	24	21		22	19	17	14
8	53	41	34	29	48	38	31	27	31	26	23		25	22	19		20	17	15	13
9	49	37	30	25	45	34	28	24	29	24	20		23	20	17		18	16	14	12
10	46	34	27	23	42	32	25	21	26	22	18		21	18	15		17	14	13	11

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	3133
50°	2275	6123	2699
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	1.1
10°-20°	195.5	4.1
20°-30°	331.0	6.9
30°-40°	401.6	8.4
40°-50°	353.5	7.4
50°-60°	218.7	4.6
60°-70°	118.6	2.5
70°-80°	67.5	1.4
80°-90°	23.4	0.5
90°-100°	68.8	1.4
100°-110°	490.4	10.3
110°-120°	665.8	14.0
120°-130°	541.9	11.4
130°-140°	435.8	9.1
140°-150°	343.6	7.2
150°-160°	251.2	5.3
160°-170°	156.1	3.3
170°-180°	53.2	1.1
0°-30°	579.5	12.1
0°-40°	981.1	20.6
0°-60°	1553.3	32.6
0°-90°	1762.8	37.0
90°-120°	1225.1	25.7
90°-150°	2546.4	53.4
90°-180°	3007.0	63.0
0°-180°	4769.7	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	3	7	11	11	2
95°	28	52	28	32	39	31
105°	109	168	637	814	539	115
115°	194	235	549	1142	1334	192
125°	278	316	518	905	1070	247
135°	345	383	521	745	856	265
145°	408	443	525	649	718	257
155°	479	496	535	589	616	220
165°	532	538	549	564	574	149
175°	560	563	560	556	553	53
180°	560	560	560	560	560	

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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	10.2	10.2	9.3	8.5
90°	0.0	3.4	7.0	10.6	10.6
92.5°	8.4	11.9	15.5	21.9	24.6
95°	28.2	52.3	28.2	31.8	38.7
97.5°	50.0	100.3	207.0	61.1	52.8
100°	66.9	125.4	415.4	122.3	81.0
102.5°	83.8	145.1	561.9	322.7	176.7
105°	109.1	167.7	637.2	814.0	538.6
107.5°	134.5	178.5	608.4	1184.7	1109.7
110°	151.4	192.7	591.5	1244.9	1337.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	168.3	209.6	574.6	1209.7	1366.0
115°	193.6	234.9	549.2	1141.5	1334.3
117.5°	219.7	260.3	542.9	1067.7	1266.0
120°	239.4	277.3	531.6	1011.6	1218.1
122.5°	253.5	294.1	517.5	963.3	1153.3
125°	278.1	316.0	517.5	905.0	1070.3
127.5°	298.5	337.1	518.2	837.4	1000.5
130°	309.8	351.1	521.0	792.1	947.0
132.5°	323.9	365.2	521.0	771.8	899.2
135°	345.0	382.9	521.0	745.3	855.5
137.5°	362.6	403.2	521.0	716.1	810.4
140°	376.7	414.6	521.0	699.0	785.1
142.5°	390.8	425.9	523.9	679.2	759.7
145°	408.4	442.8	524.6	649.4	718.2
147.5°	429.5	459.8	528.8	627.9	680.9
150°	443.6	471.1	531.6	613.6	658.3
152.5°	457.7	482.5	531.6	602.1	638.6
155°	478.8	496.0	535.1	588.6	616.1
157.5°	495.7	512.2	539.4	579.9	599.9
160°	507.0	520.7	542.2	574.2	591.5
162.5°	515.4	529.2	545.0	571.3	583.0
165°	531.6	538.5	549.2	563.5	573.9
167.5°	540.8	547.0	552.7	559.9	566.1
170°	549.2	552.7	552.7	559.9	563.3
172.5°	552.0	558.2	555.5	557.0	560.5
175°	559.8	563.2	559.8	556.2	552.7
177.5°	559.8	562.5	559.8	559.7	557.0
180°	559.8	559.8	559.8	559.8	559.8

(END OF REPORT)