

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: P621484

Luminaire Tested: VLT-F-0U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621484
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-F-0U-050D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
FROSTED LENS
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

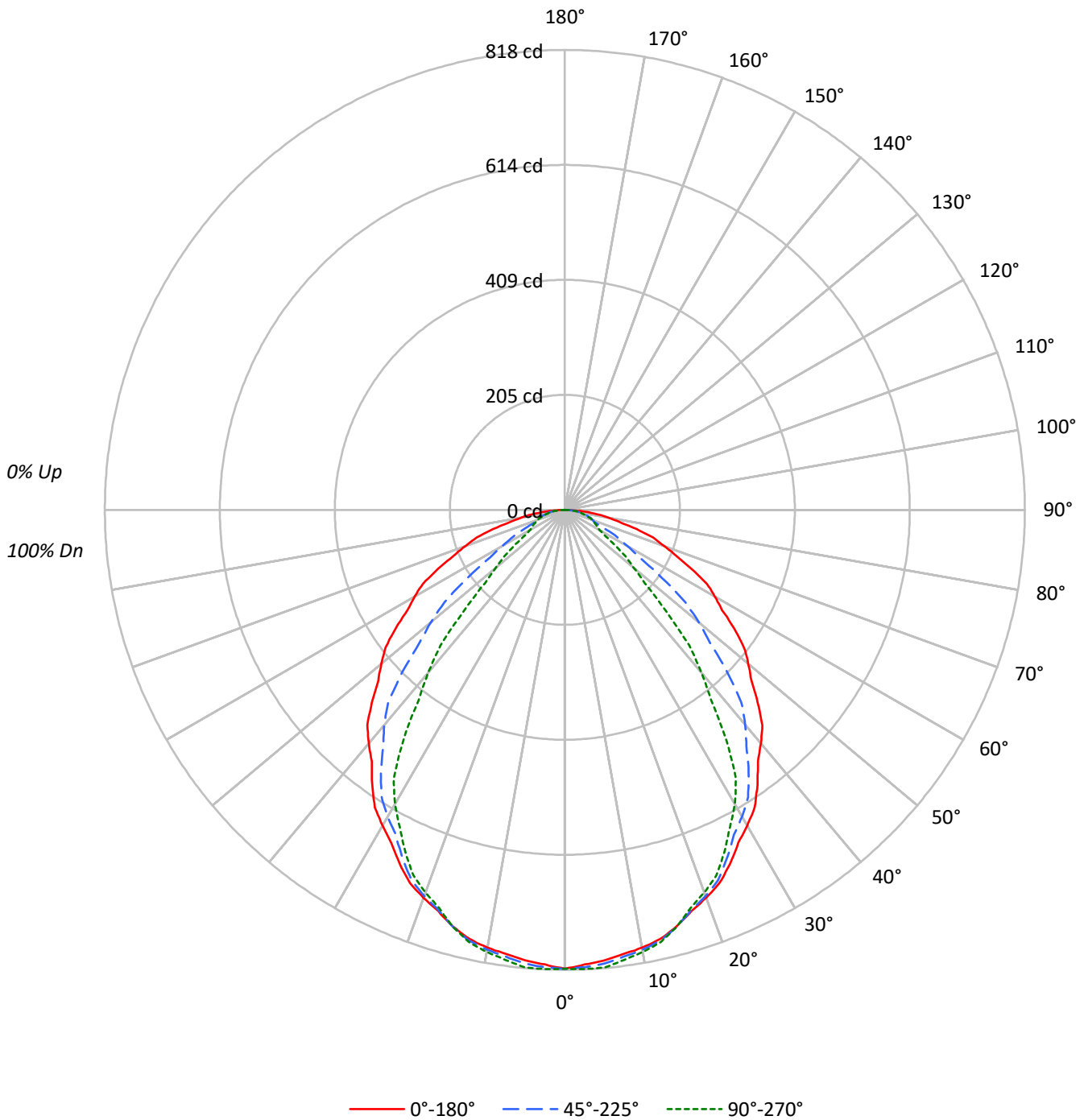
Lumens per Lamp: N/A
Luminaire Lumens: 1664.3 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.23
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.4
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87				
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75				
3	94	85	77	72	92	83	76	71	80	74	70	78	73	69	75	71	67	65				
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57				
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51				
6	75	63	54	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45				
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41				
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	39	37				
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33				
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5857	5857	5857
5°	5794	5837	5886
10°	5763	5788	5818
15°	5700	5706	5706
20°	5608	5582	5531
25°	5501	5408	5314
30°	5373	5219	5010
35°	5230	4993	4395
40°	5079	4676	3538
45°	4920	4142	2568
50°	4754	3464	1780
55°	4589	2637	1329
60°	4418	1827	1005
65°	4223	1302	1031
70°	3944	1097	1062
75°	3646	1123	1076
80°	3170	1186	1116
85°	2569	1317	1112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4920 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	4.6
10°-20°	216.3	13.0
20°-30°	314.6	18.9
30°-40°	348.1	20.9
40°-50°	298.8	18.0
50°-60°	206.9	12.4
60°-70°	123.3	7.4
70°-80°	60.7	3.6
80°-90°	18.8	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	607.8	36.5
0°-40°	955.8	57.4
0°-60°	1461.6	87.8
0°-90°	1664.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1664.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	804	817	810	810	817	76
15°	767	777	768	764	768	216
25°	695	700	683	671	671	320
35°	597	595	570	524	502	373
45°	485	477	408	295	253	374
55°	367	351	211	121	106	328
65°	249	200	77	62	61	246
75°	132	57	40	40	39	139
85°	31	16	16	14	14	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.2	816.2	816.2	816.2	816.2
2.5°	809.5	818.7	814.2	814.3	817.6
5°	804.4	816.8	810.3	809.6	817.1
7.5°	797.0	808.4	801.7	800.8	807.3
10°	790.9	801.6	794.3	792.7	798.5
12.5°	782.1	792.9	784.8	781.9	787.7
15°	767.3	777.2	768.1	764.0	768.1
17.5°	748.6	756.8	746.6	740.0	742.5
20°	734.4	742.7	731.0	721.8	724.3
22.5°	718.9	725.8	712.8	702.3	704.1
25°	694.8	699.7	683.0	671.2	671.2
27.5°	668.0	670.9	651.4	639.1	635.6
30°	648.4	650.1	629.9	615.3	604.6
32.5°	628.2	629.2	606.3	582.8	566.1
35°	597.0	595.3	570.0	524.0	501.7
37.5°	563.8	560.1	530.2	460.1	427.0
40°	542.2	537.2	499.2	414.9	377.7
42.5°	519.9	513.0	464.8	368.2	327.2
45°	484.8	476.6	408.1	295.0	253.0
47.5°	450.1	439.2	350.1	228.5	192.4
50°	425.8	414.3	310.3	188.2	159.4
52.5°	401.5	390.0	269.8	158.0	135.1
55°	366.8	351.1	210.8	121.1	106.2
57.5°	331.4	308.9	157.0	94.3	82.8
60°	307.8	278.1	127.3	78.2	70.0
62.5°	284.8	247.2	104.4	68.3	66.6
65°	248.7	200.1	76.7	61.5	60.7
67.5°	214.3	152.7	57.0	55.5	54.6
70°	188.0	120.4	52.3	51.4	50.6
72.5°	164.4	92.2	47.6	46.7	45.9
75°	131.5	57.3	40.5	39.6	38.8
77.5°	98.3	36.2	33.4	32.5	31.7
80°	76.7	29.7	28.7	27.8	27.0
82.5°	57.8	24.0	23.3	22.4	21.6
85°	31.2	15.5	16.0	14.3	13.5
87.5°	10.8	7.5	7.4	6.1	5.4
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.71	19.18	18.07	19.49	19.81	9.94	11.41	10.31	11.72	12.04
	3H	19.24	20.56	19.62	20.89	21.25	11.34	12.65	11.72	12.98	13.34
	4H	19.79	21.02	20.19	21.36	21.74	12.02	13.25	12.42	13.60	13.98
	6H	20.21	21.34	20.62	21.71	22.10	12.64	13.77	13.05	14.14	14.53
	8H	20.36	21.44	20.79	21.83	22.23	12.88	13.96	13.31	14.35	14.75
	12H	20.46	21.49	20.89	21.87	22.30	13.06	14.09	13.49	14.48	14.91
4H	2H	17.61	18.84	18.01	19.19	19.57	10.63	11.86	11.03	12.21	12.59
	3H	19.30	20.31	19.71	20.71	21.12	12.23	13.25	12.64	13.65	14.05
	4H	19.91	20.82	20.34	21.24	21.68	13.05	13.96	13.48	14.38	14.82
	6H	20.43	21.22	20.89	21.67	22.13	13.82	14.61	14.28	15.05	15.52
	8H	20.63	21.37	21.09	21.81	22.28	14.12	14.86	14.58	15.31	15.77
	12H	20.78	21.44	21.26	21.92	22.39	14.36	15.02	14.85	15.50	15.97
8H	4H	19.86	20.60	20.33	21.05	21.52	13.54	14.28	14.01	14.73	15.20
	6H	20.42	21.03	20.91	21.52	22.00	14.44	15.06	14.94	15.55	16.03
	8H	20.65	21.20	21.17	21.71	22.20	14.84	15.39	15.35	15.90	16.39
	12H	20.86	21.35	21.37	21.84	22.41	15.18	15.67	15.69	16.16	16.73
12H	4H	19.84	20.50	20.32	20.98	21.45	13.62	14.28	14.10	14.76	15.23
	6H	20.39	20.94	20.90	21.45	21.94	14.56	15.11	15.07	15.62	16.11
	8H	20.66	21.14	21.17	21.63	22.20	15.03	15.51	15.54	16.01	16.57