

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: P621828

Luminaire Tested: VLT-FB-0U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621828
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-19)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FB-0U-075D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

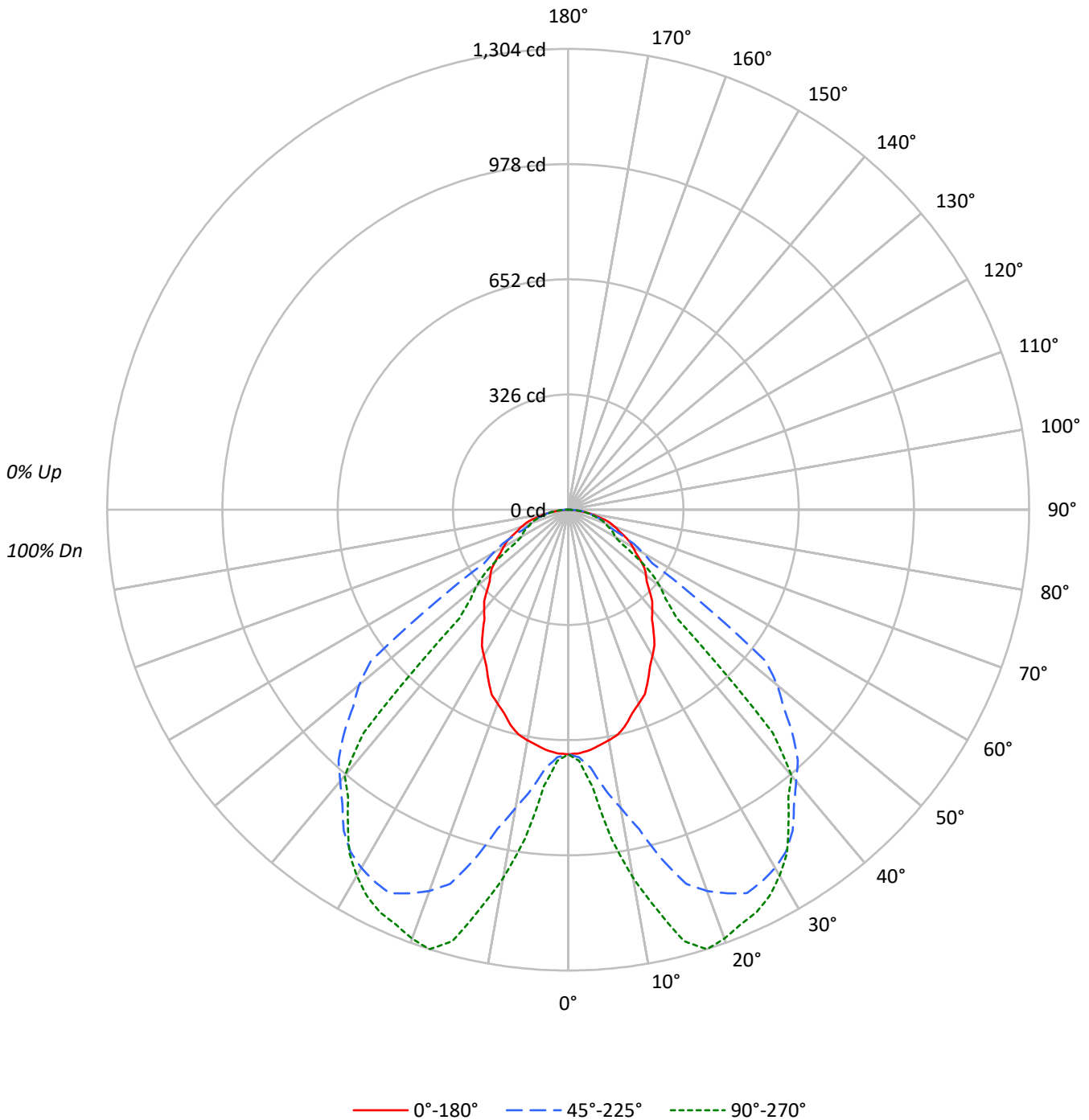
Lumens per Lamp: N/A
Luminaire Lumens: 2480.3 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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



TEST NUMBER: P621828
CATALOG NUMBER: VLT-FB-0U-075D-940-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621828

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

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89					87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77					75				
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67					65				
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51					49				
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	55	50	46					44				
7	69	56	48	42	67	55	47	42	54	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37					35				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4925	5279	5655
10°	4828	6242	7709
15°	4682	7608	9385
20°	4458	8766	9862
25°	4222	9479	9958
30°	3952	9699	9908
35°	3685	9698	9514
40°	3466	9396	9211
45°	3298	9108	4411
50°	3204	8622	3800
55°	3115	5773	3010
60°	3028	3513	2180
65°	2961	2676	2268
70°	2923	2331	2331
75°	2847	2418	2340
80°	2500	2442	2327
85°	1853	2544	2198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9108 cd/sqm



TEST NUMBER: P621828

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	3.0
10°-20°	275.2	11.1
20°-30°	466.1	18.8
30°-40°	565.5	22.8
40°-50°	497.7	20.1
50°-60°	308.0	12.4
60°-70°	167.0	6.7
70°-80°	95.1	3.8
80°-90°	31.1	1.3
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°	816.0	32.9
0°-40°	1381.4	55.7
0°-60°	2187.1	88.2
0°-90°	2480.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2480.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	684	706	733	764	785	65
15°	630	726	1024	1211	1263	176
25°	533	730	1197	1233	1258	245
35°	421	676	1107	1092	1086	264
45°	325	556	898	761	435	252
55°	249	388	461	267	241	223
65°	174	218	158	135	134	173
75°	103	90	87	86	84	107
85°	22	31	31	28	27	28
90°	0	0	0	0	0	



TEST NUMBER: P621828

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692.1	692.1	692.1	692.1	692.1
2.5°	689.9	697.6	701.1	708.0	711.3
5°	683.7	705.7	732.9	764.4	785.0
7.5°	672.7	712.1	798.2	897.4	939.7
10°	662.6	716.2	856.7	1000.1	1057.9
12.5°	651.3	720.4	925.4	1099.2	1158.1
15°	630.2	726.5	1024.1	1211.0	1263.3
17.5°	603.0	730.3	1109.7	1270.3	1303.8
20°	583.8	731.0	1147.9	1277.7	1291.4
22.5°	565.8	731.7	1175.0	1259.6	1271.2
25°	533.2	729.9	1197.2	1232.9	1257.7
27.5°	500.5	721.7	1186.2	1215.0	1232.9
30°	476.9	713.5	1170.5	1194.4	1195.8
32.5°	454.4	699.8	1146.8	1153.8	1151.9
35°	420.6	676.5	1107.1	1091.5	1086.0
37.5°	389.1	645.5	1049.2	1024.1	1022.7
40°	370.0	623.1	1003.0	979.2	983.3
42.5°	352.0	597.4	961.4	933.5	856.2
45°	325.0	556.1	897.5	760.7	434.7
47.5°	301.6	509.0	825.2	407.5	374.2
50°	287.0	476.8	772.3	358.3	340.4
52.5°	272.4	446.8	703.7	322.2	298.8
55°	249.0	387.9	461.4	266.7	240.6
57.5°	226.8	326.1	281.9	207.3	178.9
60°	211.0	289.4	244.8	167.1	151.9
62.5°	196.4	259.4	208.8	148.2	145.2
65°	174.4	218.5	157.6	135.0	133.6
67.5°	153.9	179.5	120.1	121.5	120.1
70°	139.3	151.7	111.1	112.5	111.1
72.5°	125.8	124.9	102.1	101.3	99.9
75°	102.7	90.3	87.2	85.8	84.4
77.5°	78.5	66.7	70.3	68.9	67.5
80°	60.5	56.4	59.1	57.6	56.3
82.5°	44.7	46.1	47.8	45.3	43.9
85°	22.5	30.8	30.9	28.1	26.7
87.5°	6.8	13.4	12.4	10.1	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)