

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P621823

Luminaire Tested: VLT-FB-0U-075D-830-UNV-STD-W-4

Issue Date: 9/2/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P621823  
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-830-UNV-STD-W-4  
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE  
LIGHT SHAPING LENS - BATWING  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

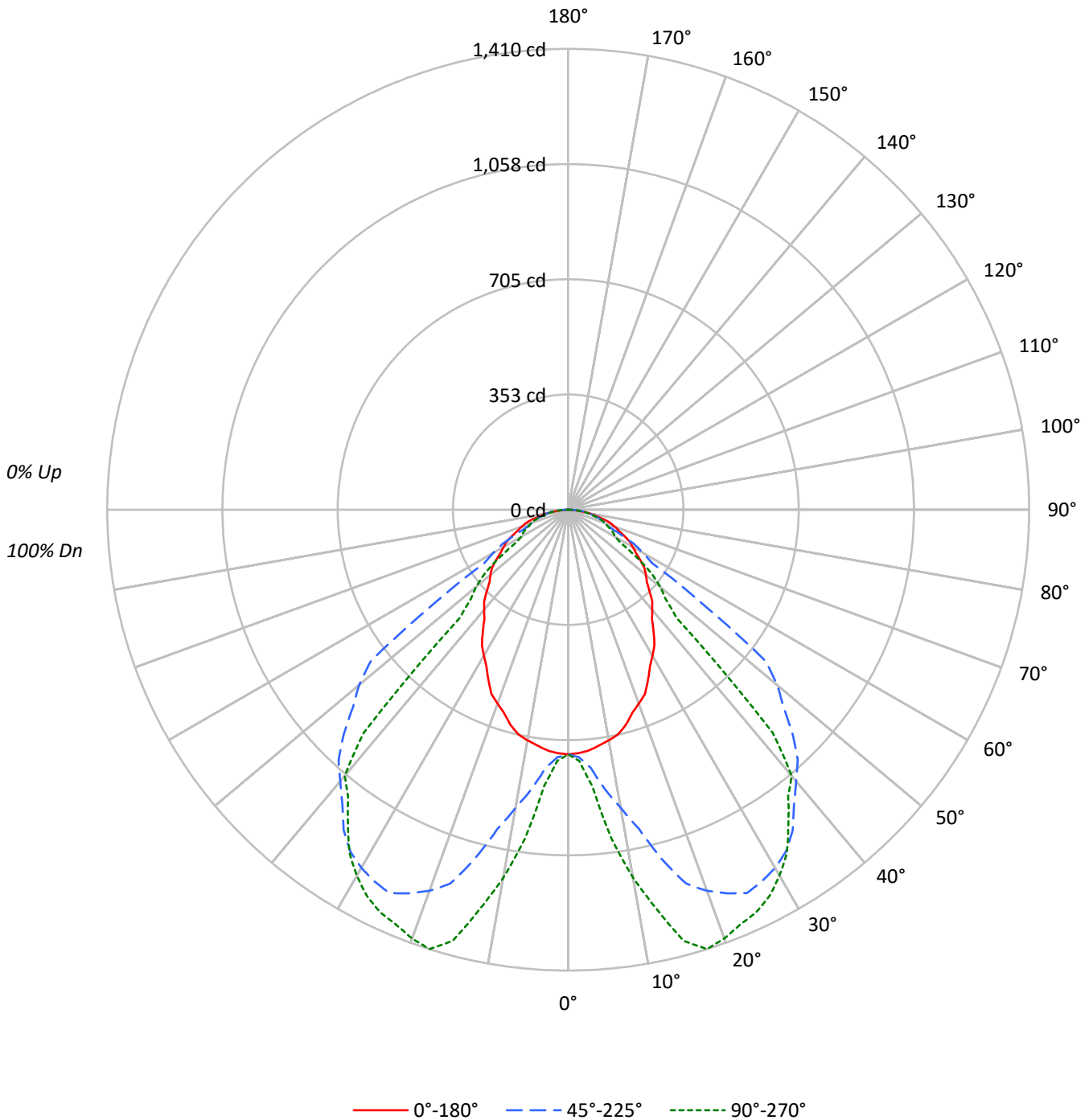
Lumens per Lamp: N/A  
Luminaire Lumens: 2681.4 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75  
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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	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°	5370	5370	5370
5°	5324	5708	6113
10°	5219	6749	8334
15°	5061	8225	10146
20°	4820	9477	10661
25°	4564	10247	10765
30°	4272	10484	10711
35°	3983	10485	10285
40°	3747	10158	9959
45°	3565	9847	4769
50°	3464	9321	4108
55°	3368	6240	3254
60°	3274	3798	2358
65°	3202	2892	2454
70°	3160	2520	2520
75°	3078	2615	2531
80°	2703	2641	2513
85°	2001	2758	2379

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9847 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.7	3.0
10°-20°	297.5	11.1
20°-30°	503.9	18.8
30°-40°	611.3	22.8
40°-50°	538.1	20.1
50°-60°	333.0	12.4
60°-70°	180.5	6.7
70°-80°	102.8	3.8
80°-90°	33.6	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°	882.1	32.9
0°-40°	1493.4	55.7
0°-60°	2364.4	88.2
0°-90°	2681.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2681.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	739	763	792	826	849	70
15°	681	785	1107	1309	1366	191
25°	576	789	1294	1333	1360	265
35°	455	731	1197	1180	1174	285
45°	351	601	970	822	470	273
55°	269	419	499	288	260	241
65°	189	236	170	146	144	187
75°	111	98	94	93	91	116
85°	24	33	34	30	29	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	748.3	748.3	748.3	748.3	748.3
2.5°	745.8	754.2	758.0	765.4	768.9
5°	739.1	762.9	792.4	826.3	848.6
7.5°	727.3	769.8	862.9	970.1	1015.9
10°	716.3	774.3	926.2	1081.2	1143.7
12.5°	704.2	778.8	1000.4	1188.3	1252.0
15°	681.3	785.4	1107.2	1309.2	1365.7
17.5°	651.8	789.5	1199.6	1373.2	1409.5
20°	631.2	790.3	1241.0	1381.3	1396.1
22.5°	611.7	791.0	1270.2	1361.7	1374.2
25°	576.4	789.1	1294.2	1332.9	1359.6
27.5°	541.1	780.2	1282.4	1313.5	1332.9
30°	515.6	771.3	1265.3	1291.2	1292.7
32.5°	491.2	756.5	1239.8	1247.4	1245.3
35°	454.7	731.3	1196.9	1180.0	1174.1
37.5°	420.7	697.9	1134.2	1107.1	1105.7
40°	400.0	673.6	1084.4	1058.6	1063.1
42.5°	380.5	645.8	1039.3	1009.2	925.6
45°	351.3	601.1	970.3	822.4	469.9
47.5°	326.1	550.3	892.1	440.5	404.5
50°	310.3	515.5	834.9	387.4	368.0
52.5°	294.4	483.0	760.7	348.3	323.0
55°	269.2	419.4	498.8	288.3	260.1
57.5°	245.2	352.5	304.8	224.1	193.5
60°	228.1	312.9	264.6	180.6	164.3
62.5°	212.3	280.4	225.7	160.2	157.0
65°	188.6	236.2	170.3	146.0	144.5
67.5°	166.4	194.0	129.9	131.4	129.9
70°	150.6	163.9	120.1	121.6	120.1
72.5°	136.0	135.1	110.4	109.5	108.0
75°	111.0	97.6	94.3	92.7	91.3
77.5°	84.9	72.1	76.0	74.5	73.0
80°	65.4	60.9	63.9	62.3	60.8
82.5°	48.4	49.9	51.7	48.9	47.5
85°	24.3	33.3	33.5	30.4	28.9
87.5°	7.3	14.4	13.4	10.9	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)