

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: P621859

Luminaire Tested: VLT-FB-100U-125D-830-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621859
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-100U-125D-830-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

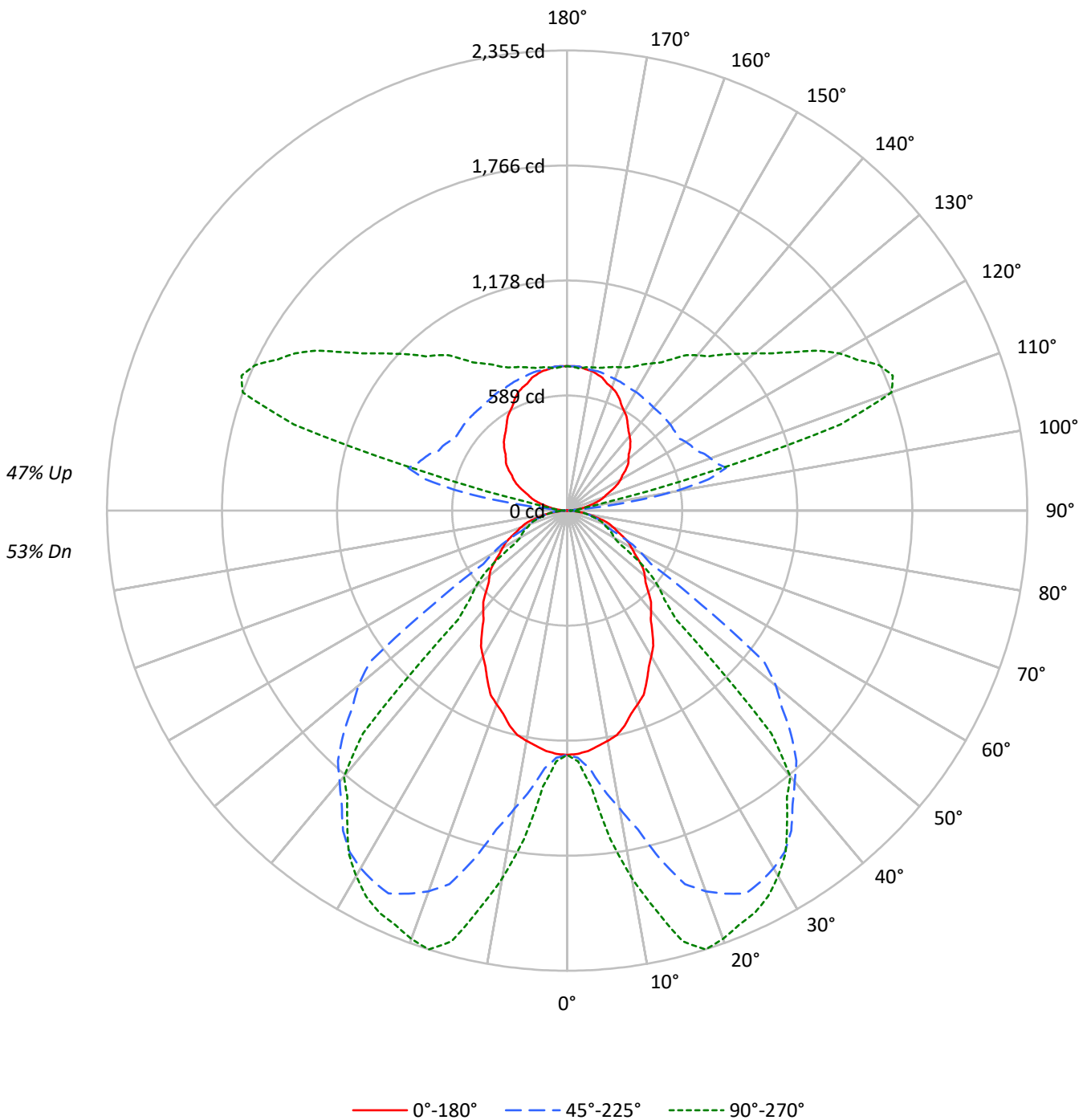
Lumens per Lamp: N/A
Luminaire Lumens: 8453.1 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 67.7
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	84	78	73	84	78	73	69	67	63	60	57	54	52	47	46	44	40
3	83	74	67	62	77	69	63	58	60	55	51	51	47	45	43	40	38	34
4	76	66	58	53	71	62	55	50	53	48	44	46	42	39	38	36	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	23	21	18
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19	17
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8971	8971	8971
5°	8895	9536	10214
10°	8721	11275	13923
15°	8457	13742	16952
20°	8053	15833	17813
25°	7625	17121	17986
30°	7138	17518	17896
35°	6655	17518	17184
40°	6260	16971	16638
45°	5957	16451	7968
50°	5787	15573	6865
55°	5626	10427	5436
60°	5470	6345	3938
65°	5350	4832	4099
70°	5279	4211	4211
75°	5143	4367	4228
80°	4517	4409	4199
85°	3351	4603	3977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16451 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	1.6
10°-20°	497.1	5.9
20°-30°	841.9	10.0
30°-40°	1021.3	12.1
40°-50°	899.0	10.6
50°-60°	556.3	6.6
60°-70°	301.6	3.6
70°-80°	171.8	2.0
80°-90°	57.9	0.7
90°-100°	90.9	1.1
100°-110°	647.7	7.7
110°-120°	879.4	10.4
120°-130°	715.7	8.5
130°-140°	575.6	6.8
140°-150°	453.8	5.4
150°-160°	331.8	3.9
160°-170°	206.1	2.4
170°-180°	70.3	0.8
0°-30°	1473.8	17.4
0°-40°	2495.2	29.5
0°-60°	3950.4	46.7
0°-90°	4481.7	53.0
90°-120°	1618.0	19.1
90°-150°	3363.2	39.8
90°-180°	3971.0	47.0
0°-180°	8453.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1235	1275	1324	1381	1418	117
15°	1138	1312	1850	2187	2282	319
25°	963	1318	2162	2227	2272	442
35°	760	1222	2000	1972	1962	476
45°	587	1004	1621	1374	785	455
55°	450	701	833	482	434	403
65°	315	395	285	244	241	313
75°	186	163	158	155	152	194
85°	41	56	56	51	48	50
90°	0	4	9	14	14	3
95°	37	69	37	42	51	42
105°	144	221	842	1075	711	152
115°	256	310	725	1508	1762	254
125°	367	417	684	1195	1414	326
135°	456	506	688	984	1130	351
145°	539	585	693	858	949	339
155°	632	655	707	777	814	290
165°	702	711	725	744	758	197
175°	739	744	739	735	730	70
180°	739	739	739	739	739	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1250.2	1250.2	1250.2	1250.2	1250.2
2.5°	1246.1	1260.0	1266.4	1278.7	1284.7
5°	1234.9	1274.7	1323.8	1380.6	1417.9
7.5°	1215.1	1286.1	1441.7	1620.8	1697.4
10°	1196.8	1293.7	1547.4	1806.5	1910.8
12.5°	1176.5	1301.2	1671.4	1985.4	2091.7
15°	1138.3	1312.3	1849.8	2187.4	2281.8
17.5°	1089.1	1319.1	2004.3	2294.3	2355.0
20°	1054.5	1320.3	2073.4	2307.8	2332.6
22.5°	1022.0	1321.6	2122.2	2275.1	2296.0
25°	963.0	1318.3	2162.4	2226.9	2271.6
27.5°	904.1	1303.6	2142.5	2194.6	2226.9
30°	861.4	1288.7	2114.1	2157.3	2159.8
32.5°	820.7	1264.0	2071.4	2084.0	2080.5
35°	759.7	1221.9	1999.7	1971.6	1961.6
37.5°	702.8	1165.9	1895.0	1849.8	1847.3
40°	668.3	1125.4	1811.7	1768.7	1776.1
42.5°	635.7	1079.0	1736.5	1686.1	1546.4
45°	587.0	1004.4	1621.1	1374.0	785.2
47.5°	544.8	919.4	1490.5	736.0	675.9
50°	518.4	861.2	1395.0	647.2	614.9
52.5°	491.9	807.0	1271.0	581.9	539.7
55°	449.7	700.7	833.4	481.7	434.5
57.5°	409.6	589.0	509.2	374.4	323.2
60°	381.1	522.8	442.1	301.8	274.4
62.5°	354.7	468.5	377.1	267.7	262.2
65°	315.1	394.6	284.6	243.9	241.4
67.5°	278.0	324.2	217.0	219.5	217.0
70°	251.6	273.9	200.7	203.2	200.7
72.5°	227.2	225.7	184.5	182.9	180.4
75°	185.5	163.1	157.5	154.9	152.5
77.5°	141.8	120.4	127.0	124.5	122.0
80°	109.3	101.8	106.7	104.1	101.6
82.5°	80.8	83.3	86.4	81.8	79.3
85°	40.7	55.6	55.9	50.8	48.3
87.5°	12.2	25.0	24.2	21.0	19.1
90°	0.0	4.5	9.3	13.9	13.9
92.5°	11.2	15.7	20.5	28.9	32.5
95°	37.2	69.0	37.2	42.1	51.1
97.5°	66.0	132.4	273.4	80.7	69.7
100°	88.3	165.6	548.7	161.5	106.9
102.5°	110.7	191.6	742.1	426.2	233.4
105°	144.1	221.4	841.6	1075.1	711.4
107.5°	177.6	235.8	803.5	1564.7	1465.6
110°	199.9	254.5	781.2	1644.2	1766.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.3	276.8	758.9	1597.7	1804.1
115°	255.7	310.3	725.4	1507.7	1762.3
117.5°	290.1	343.8	717.0	1410.2	1672.1
120°	316.2	366.2	702.1	1336.0	1608.8
122.5°	334.8	388.4	683.5	1272.3	1523.3
125°	367.3	417.3	683.5	1195.3	1413.5
127.5°	394.3	445.2	684.5	1106.0	1321.5
130°	409.2	463.7	688.2	1046.2	1250.8
132.5°	427.8	482.3	688.2	1019.3	1187.6
135°	455.7	505.7	688.2	984.4	1129.9
137.5°	478.9	532.6	688.2	945.8	1070.4
140°	497.5	547.5	688.2	923.2	1036.9
142.5°	516.1	562.5	691.9	897.0	1003.4
145°	539.4	584.8	692.8	857.6	948.6
147.5°	567.3	607.3	698.4	829.3	899.3
150°	585.9	622.3	702.1	810.4	869.5
152.5°	604.5	637.2	702.1	795.3	843.5
155°	632.4	655.1	706.8	777.3	813.7
157.5°	654.7	676.5	712.4	766.0	792.3
160°	669.6	687.8	716.1	758.4	781.2
162.5°	680.7	698.9	719.8	754.6	770.0
165°	702.1	711.2	725.4	744.3	757.9
167.5°	714.2	722.4	730.0	739.5	747.7
170°	725.4	729.9	730.0	739.4	744.0
172.5°	729.1	737.3	733.7	735.7	740.3
175°	739.3	743.9	739.3	734.6	730.0
177.5°	739.3	743.0	739.3	739.2	735.6
180°	739.3	739.3	739.3	739.3	739.3

(END OF REPORT)