

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: P621811

Luminaire Tested: VLT-FB-075U-125D-830-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621811
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-125D-830-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

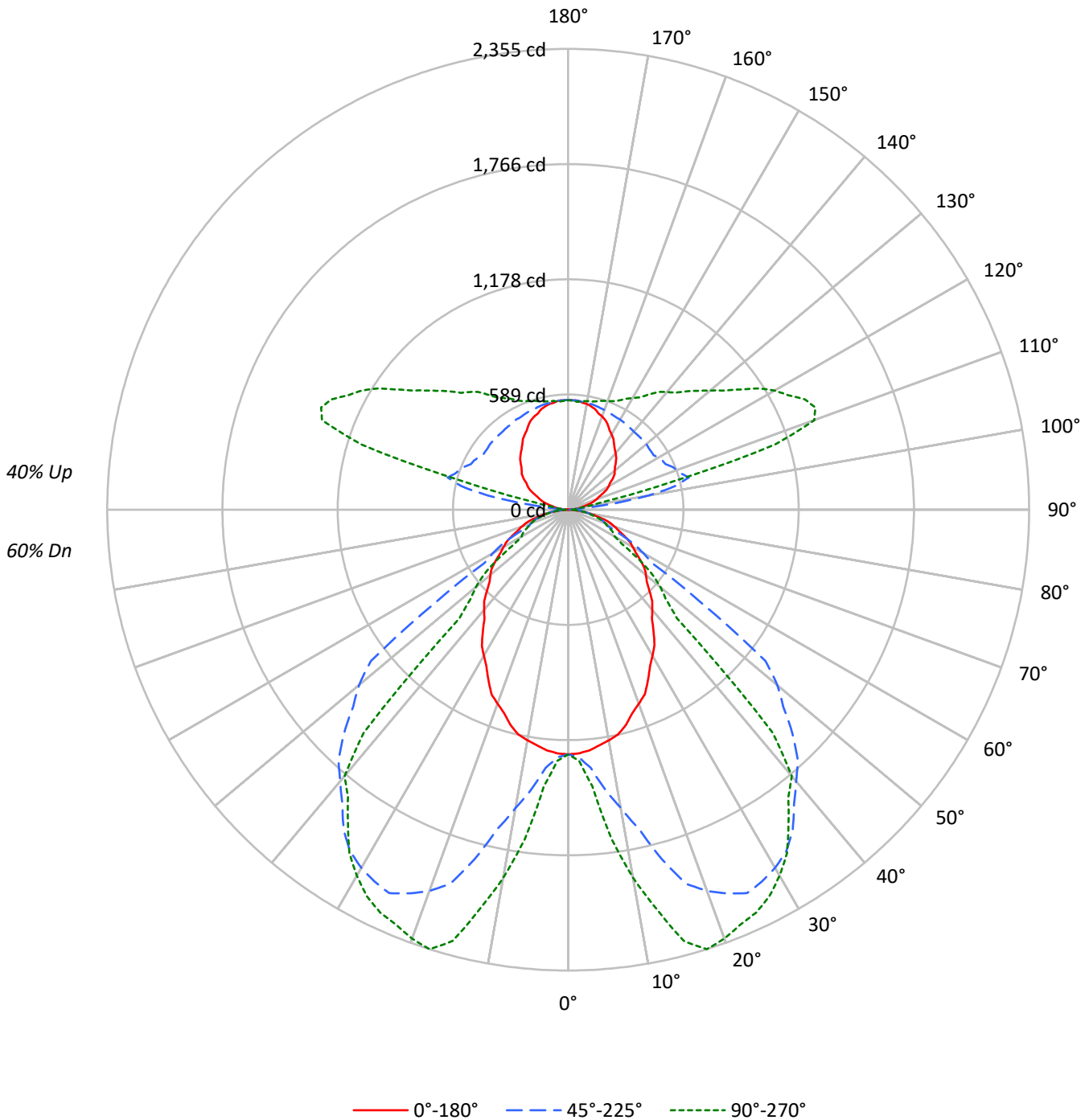
Lumens per Lamp: N/A
Luminaire Lumens: 7488.2 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 59.5
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									
RC	80									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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60																			
1	101	97	93	90	94	90	87	84	79	77	75	68	67	65	59	58	56	52																			
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	45																			
3	85	76	68	63	79	71	65	60	62	58	54	55	51	48	47	45	42	39																			
4	78	67	60	54	73	63	57	51	56	51	46	49	45	42	43	39	37	34																			
5	72	60	52	46	67	57	50	44	50	45	40	44	40	36	39	35	32	30																			
6	66	54	46	41	62	51	44	39	46	40	35	40	36	32	35	32	29	26																			
7	61	49	41	36	57	46	39	34	41	36	31	37	32	29	32	28	26	23																			
8	57	45	37	32	53	42	35	30	38	32	28	34	29	26	30	26	23	21																			
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21	19																			
10	50	37	30	25	46	36	29	25	32	26	23	28	24	21	25	22	19	17																			

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	1.8
10°-20°	497.1	6.6
20°-30°	841.9	11.2
30°-40°	1021.3	13.6
40°-50°	899.0	12.0
50°-60°	556.3	7.4
60°-70°	301.6	4.0
70°-80°	171.8	2.3
80°-90°	57.5	0.8
90°-100°	68.8	0.9
100°-110°	490.4	6.5
110°-120°	665.8	8.9
120°-130°	541.9	7.2
130°-140°	435.8	5.8
140°-150°	343.6	4.6
150°-160°	251.2	3.4
160°-170°	156.1	2.1
170°-180°	53.2	0.7
0°-30°	1473.8	19.7
0°-40°	2495.2	33.3
0°-60°	3950.4	52.8
0°-90°	4481.3	59.8
90°-120°	1225.1	16.4
90°-150°	2546.4	34.0
90°-180°	3007.0	40.2
0°-180°	7488.2	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	3	7	11	11	3
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°	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	24.8	23.8	20.4	18.4
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)