

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: P621799

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

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621799
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-075D-830-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

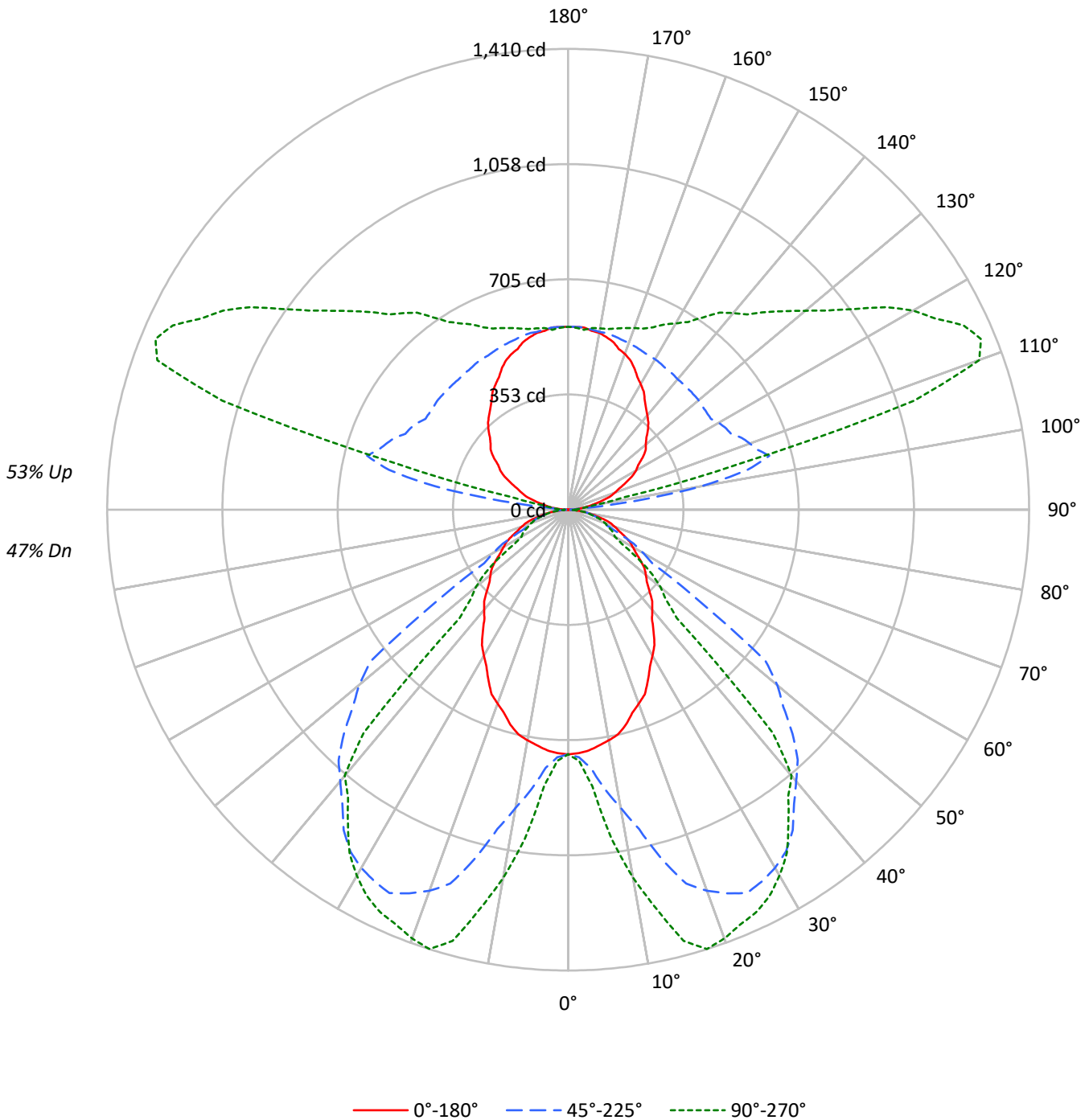
Lumens per Lamp: N/A
Luminaire Lumens: 5689.6 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 42.4
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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	47				47
1	98	94	90	87	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	77	72	82	76	71	67	64	61	57	53	51	48	43	41	40				35	
3	82	73	66	60	75	67	61	56	57	53	49	48	44	42	39	36	35				30	
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30				27	
5	69	58	50	44	63	54	47	42	46	41	37	38	35	31	32	29	27				23	
6	64	52	44	39	59	48	41	36	41	36	32	35	31	28	29	26	23				21	
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21				18	
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19				16	
9	51	39	32	27	47	36	30	25	31	26	22	27	23	20	22	19	17				15	
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	15				13	

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	1.4
10°-20°	297.5	5.2
20°-30°	503.9	8.9
30°-40°	611.3	10.7
40°-50°	538.1	9.5
50°-60°	333.0	5.9
60°-70°	180.5	3.2
70°-80°	102.8	1.8
80°-90°	34.9	0.6
90°-100°	68.8	1.2
100°-110°	490.4	8.6
110°-120°	665.8	11.7
120°-130°	541.9	9.5
130°-140°	435.8	7.7
140°-150°	343.6	6.0
150°-160°	251.2	4.4
160°-170°	156.1	2.7
170°-180°	53.2	0.9
0°-30°	882.1	15.5
0°-40°	1493.4	26.2
0°-60°	2364.4	41.6
0°-90°	2682.7	47.2
90°-120°	1225.1	21.5
90°-150°	2546.4	44.8
90°-180°	3007.0	52.9
0°-180°	5689.6	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	30
90°	0	3	7	11	11	2
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°	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	15.1	14.8	13.0	11.8
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)