

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: P622014

Luminaire Tested: VLT-WB-M-050U-075D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622014
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-32)
Test Lab: INNOVATION CENTER
Issue Date: 10/28/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-WB-M-050U-075D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

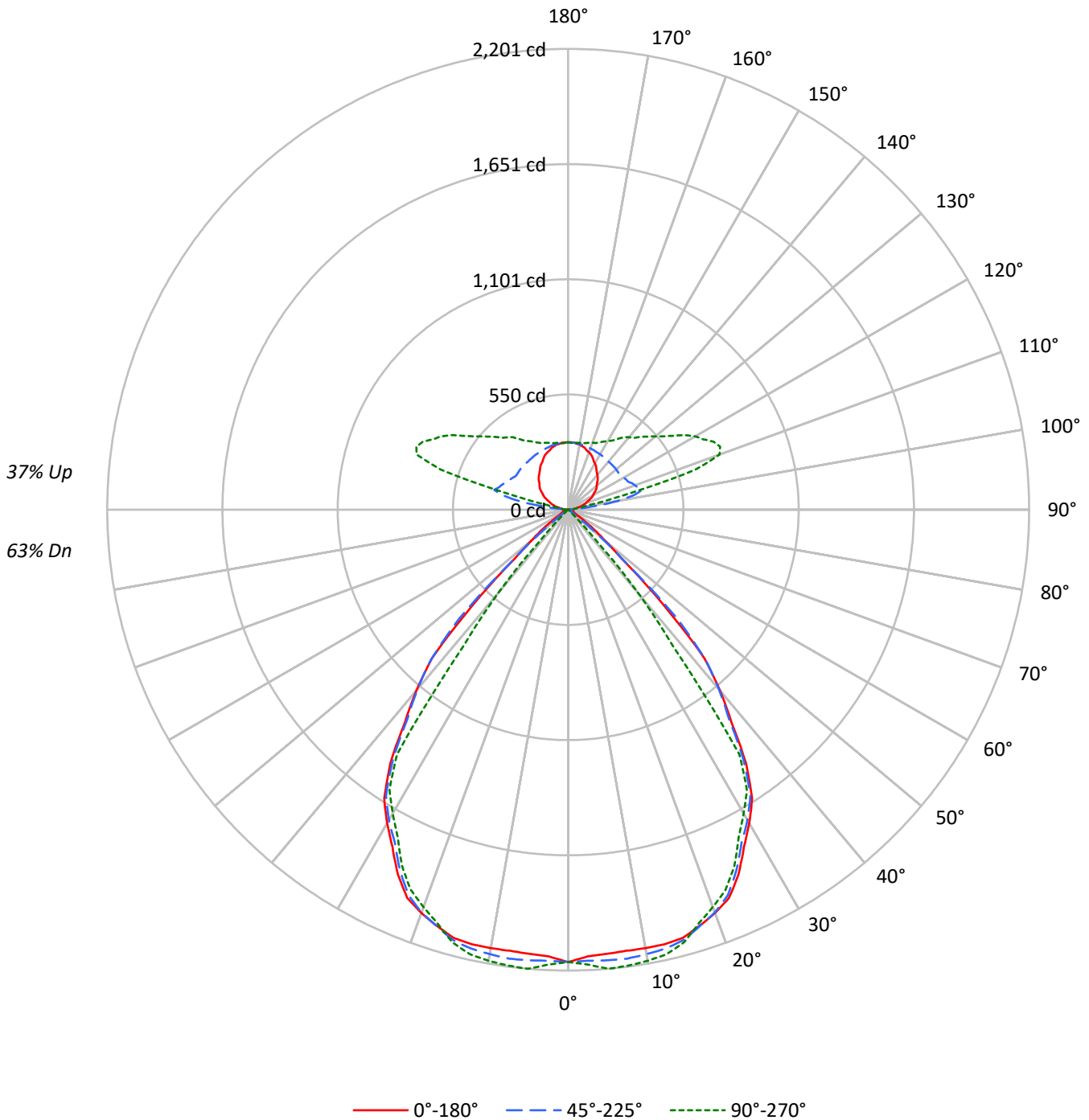
Lumens per Lamp: N/A
Luminaire Lumens: 4725.2 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 44.1
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				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	110	110	110	110	104	104	104	104	91	91	91		79	79	79		68	68	68	63
1	103	100	97	94	97	94	92	89	83	82	80		74	72	71		64	64	63	59
2	96	91	86	82	91	86	81	78	76	73	71		68	66	64		60	59	57	54
3	90	82	76	72	85	78	73	69	70	66	63		63	60	58		56	54	52	49
4	84	75	68	63	79	71	66	61	64	60	57		58	55	52		52	50	48	45
5	78	69	62	57	74	65	59	55	59	55	51		54	50	47		49	46	44	41
6	73	63	56	51	69	60	54	49	55	50	46		50	46	43		45	42	40	38
7	68	58	51	46	65	55	49	45	51	46	42		46	42	39		42	39	37	35
8	64	53	47	42	61	51	45	41	47	42	38		43	39	36		40	36	34	32
9	60	49	43	38	57	48	41	37	44	39	35		40	36	33		37	34	31	30
10	57	46	39	35	54	44	38	34	41	36	33		38	34	31		35	31	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15499	15499	15499
5°	15338	15559	15856
10°	15494	15705	15939
15°	15728	15808	15887
20°	15653	15630	15420
25°	15226	15044	14862
30°	14325	14186	13882
35°	12976	12788	12480
40°	10553	10481	4954
45°	6530	7446	341
50°	2492	1996	204
55°	1224	363	76
60°	593	175	22
65°	545	25	25
70°	514	31	31
75°	507	42	42
80°	504	62	0
85°	502	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 7446 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	4.4
10°-20°	598.4	12.7
20°-30°	870.0	18.4
30°-40°	865.8	18.3
40°-50°	380.7	8.1
50°-60°	56.2	1.2
60°-70°	12.8	0.3
70°-80°	4.8	0.1
80°-90°	1.8	0.0
90°-100°	39.6	0.8
100°-110°	281.9	6.0
110°-120°	382.7	8.1
120°-130°	311.5	6.6
130°-140°	250.5	5.3
140°-150°	197.5	4.2
150°-160°	144.4	3.1
160°-170°	89.7	1.9
170°-180°	30.6	0.6
0°-30°	1674.7	35.4
0°-40°	2540.5	53.8
0°-60°	2977.4	63.0
0°-90°	2996.8	63.4
90°-120°	704.2	14.9
90°-150°	1463.7	31.0
90°-180°	1728.0	36.6
0°-180°	4725.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2129	2167	2160	2165	2201	203
15°	2117	2162	2128	2107	2138	595
25°	1923	1959	1900	1850	1877	879
35°	1481	1477	1460	1429	1425	907
45°	644	732	734	49	34	498
55°	98	105	29	11	6	99
65°	32	28	2	2	2	32
75°	18	3	2	2	2	19
85°	6	0	0	0	0	6
90°	0	2	4	6	6	1
95°	16	30	16	18	22	18
105°	63	96	366	468	310	66
115°	111	135	316	656	767	110
125°	160	182	298	520	615	142
135°	198	220	300	428	492	153
145°	235	254	302	373	413	147
155°	275	285	308	338	354	126
165°	306	310	316	324	330	86
175°	322	324	322	320	318	30
180°	322	322	322	322	322	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2159.9	2159.9	2159.9	2159.9	2159.9
2.5°	2135.4	2167.7	2156.2	2155.4	2174.6
5°	2129.3	2166.7	2159.9	2165.3	2201.2
7.5°	2125.0	2162.7	2162.6	2160.1	2196.0
10°	2126.3	2165.1	2155.3	2151.5	2187.4
12.5°	2126.3	2167.5	2146.8	2136.9	2174.0
15°	2117.1	2161.9	2127.8	2107.1	2138.5
17.5°	2084.1	2132.8	2085.9	2045.5	2071.9
20°	2049.8	2102.2	2046.8	1995.4	2019.3
22.5°	2007.0	2053.4	1993.0	1939.1	1964.2
25°	1923.0	1958.8	1900.0	1850.2	1877.1
27.5°	1816.9	1836.6	1792.7	1744.8	1762.2
30°	1728.8	1743.8	1712.0	1666.4	1675.3
32.5°	1634.7	1644.8	1619.1	1579.5	1587.3
35°	1481.2	1476.7	1459.8	1429.1	1424.6
37.5°	1280.7	1272.9	1262.0	1143.4	819.9
40°	1126.6	1129.6	1118.9	699.3	528.9
42.5°	963.9	982.5	967.3	476.1	173.0
45°	643.5	731.7	733.7	48.6	33.6
47.5°	347.9	443.9	361.1	30.1	24.5
50°	223.2	278.5	178.8	22.8	18.3
52.5°	159.6	186.2	70.0	17.9	13.5
55°	97.8	105.3	29.0	10.6	6.1
57.5°	58.4	69.5	18.3	3.9	1.5
60°	41.3	48.7	12.2	1.5	1.5
62.5°	36.4	36.7	8.6	1.5	1.5
65°	32.1	27.6	1.5	1.5	1.5
67.5°	28.1	20.1	1.5	1.5	1.5
70°	24.5	14.0	1.5	1.5	1.5
72.5°	22.0	9.2	1.5	1.5	1.5
75°	18.3	3.4	1.5	1.5	1.5
77.5°	14.7	1.8	1.5	1.2	1.2
80°	12.2	1.8	1.5	0.0	0.0
82.5°	9.8	1.7	0.3	0.0	0.0
85°	6.1	0.1	0.0	0.0	0.0
87.5°	2.4	0.5	0.8	1.2	1.2
90°	0.0	2.0	4.0	6.1	6.1
92.5°	4.9	6.8	8.9	12.6	14.2
95°	16.2	30.0	16.2	18.3	22.3
97.5°	28.7	57.6	119.0	35.1	30.4
100°	38.4	72.1	238.8	70.3	46.5
102.5°	48.2	83.4	323.0	185.5	101.6
105°	62.7	96.4	366.3	467.9	309.6
107.5°	77.3	102.6	349.7	681.0	637.8
110°	87.0	110.8	340.0	715.5	769.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	96.7	120.5	330.2	695.3	785.1
115°	111.3	135.0	315.7	656.1	766.9
117.5°	126.3	149.6	312.0	613.7	727.7
120°	137.6	159.4	305.6	581.4	700.2
122.5°	145.7	169.0	297.5	553.7	662.9
125°	159.9	181.6	297.5	520.2	615.2
127.5°	171.6	193.8	297.9	481.3	575.1
130°	178.1	201.8	299.5	455.3	544.3
132.5°	186.2	209.9	299.5	443.6	516.8
135°	198.3	220.1	299.5	428.4	491.7
137.5°	208.4	231.8	299.5	411.6	465.8
140°	216.5	238.3	299.5	401.8	451.3
142.5°	224.6	244.8	301.1	390.4	436.7
145°	234.7	254.5	301.5	373.2	412.8
147.5°	246.9	264.3	303.9	360.9	391.4
150°	255.0	270.8	305.6	352.7	378.4
152.5°	263.1	277.3	305.6	346.1	367.1
155°	275.2	285.1	307.6	338.3	354.1
157.5°	284.9	294.4	310.0	333.3	344.8
160°	291.4	299.3	311.6	330.1	340.0
162.5°	296.2	304.2	313.2	328.4	335.1
165°	305.6	309.5	315.7	323.9	329.8
167.5°	310.8	314.4	317.7	321.8	325.4
170°	315.7	317.7	317.7	321.8	323.8
172.5°	317.3	320.9	319.3	320.2	322.2
175°	321.7	323.7	321.7	319.7	317.7
177.5°	321.7	323.3	321.7	321.7	320.1
180°	321.7	321.7	321.7	321.7	321.7



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	2.72	3.47	3.60	4.34	5.42	0.00	0.00	0.00	0.00	0.00
	3H	3.16	3.83	4.05	4.70	5.81	0.00	0.00	0.00	0.00	0.00
	4H	3.32	3.95	4.23	4.83	5.95	0.00	0.00	0.00	0.00	0.00
	6H	3.51	4.08	4.42	4.97	6.10	0.00	0.00	0.00	0.00	0.00
	8H	3.59	4.13	4.51	5.04	6.17	0.00	0.00	0.00	0.00	0.00
	12H	3.66	4.17	4.58	5.07	6.22	0.00	0.00	0.00	0.00	0.00
4H	2H	2.42	3.05	3.33	3.93	5.05	0.00	0.00	0.00	0.00	0.00
	3H	2.90	3.41	3.81	4.33	5.46	0.00	0.00	0.00	0.00	0.00
	4H	3.07	3.54	4.00	4.45	5.61	0.00	0.00	0.00	0.00	0.00
	6H	3.30	3.70	4.24	4.63	5.80	0.00	0.00	0.00	0.00	0.00
	8H	3.42	3.79	4.36	4.72	5.89	0.00	0.00	0.00	0.00	0.00
	12H	3.53	3.86	4.48	4.80	5.98	0.00	0.00	0.00	0.00	0.00
8H	4H	2.90	3.27	3.84	4.20	5.37	0.00	0.00	0.00	0.00	0.00
	6H	3.13	3.43	4.09	4.40	5.58	0.00	0.00	0.00	0.00	0.00
	8H	3.27	3.53	4.24	4.49	5.68	0.00	0.00	0.00	0.00	0.00
	12H	3.40	3.63	4.37	4.59	5.83	0.00	0.00	0.00	0.00	0.00
12H	4H	2.83	3.16	3.78	4.11	5.28	0.00	0.00	0.00	0.00	0.00
	6H	3.07	3.34	4.04	4.30	5.49	0.00	0.00	0.00	0.00	0.00
	8H	3.20	3.43	4.17	4.39	5.63	0.00	0.00	0.00	0.00	0.00