

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: P622016

Luminaire Tested: VLT-WB-M-050U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622016
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-100D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

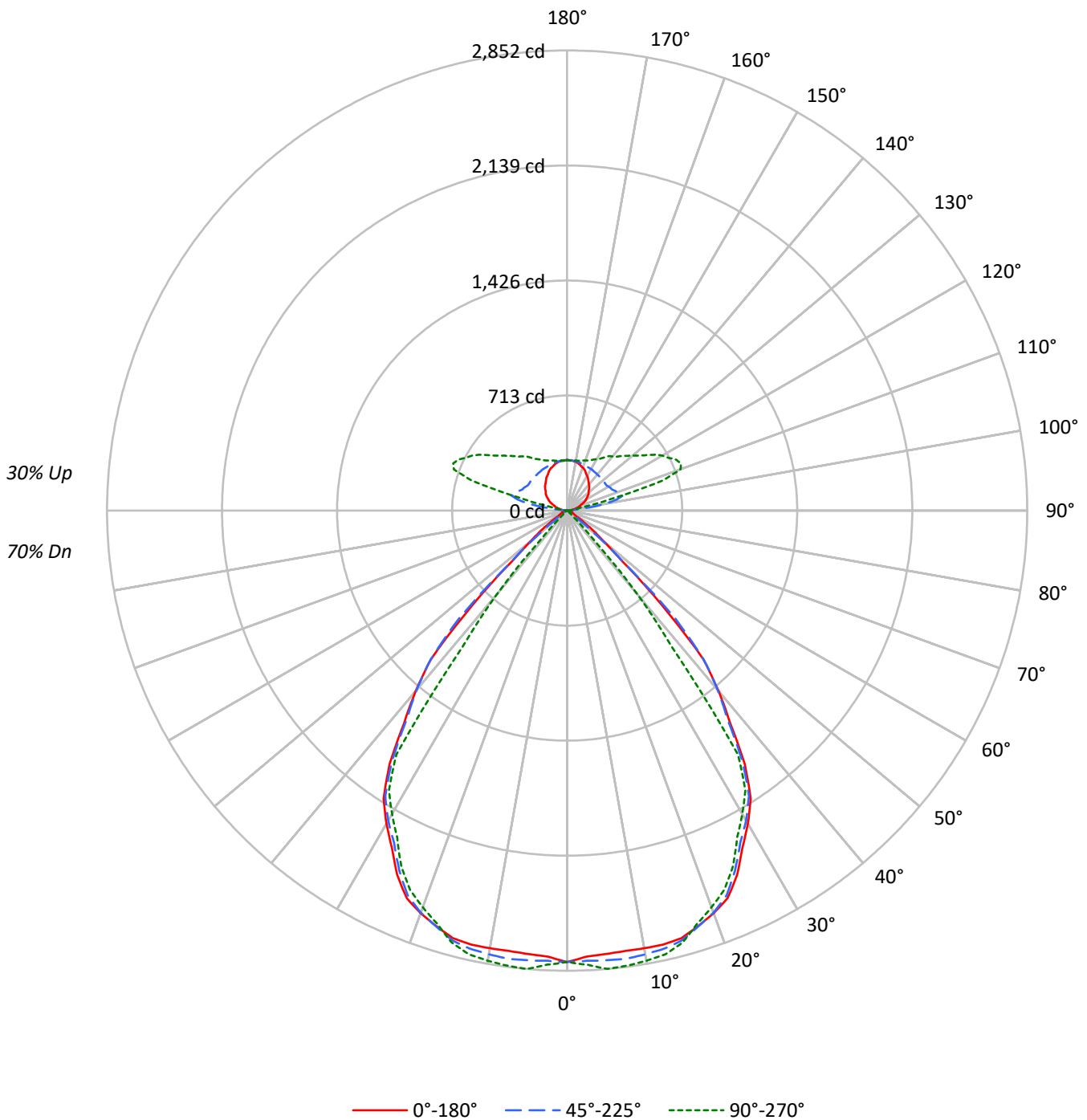
Lumens per Lamp: N/A
Luminaire Lumens: 5562.9 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 54.5
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					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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70	
1	105	102	99	96	99	97	94	92	87	85	83	78	77	76	70	69	68	68	68	68	64	
2	98	92	88	84	93	88	84	80	80	77	74	72	70	68	65	64	62	62	62	62	59	
3	92	84	78	74	87	80	75	71	73	70	66	67	64	61	61	59	57	57	57	57	54	
4	86	77	70	66	81	74	68	64	68	63	60	62	59	56	57	54	52	52	52	52	49	
5	80	70	64	59	76	68	62	57	62	58	54	58	54	51	53	50	48	48	48	48	45	
6	75	65	58	53	71	62	56	52	58	53	49	53	49	46	49	46	44	44	44	44	41	
7	70	60	53	48	67	58	51	47	53	48	45	50	45	42	46	43	40	40	40	40	38	
8	66	55	48	44	63	53	47	43	50	45	41	46	42	39	43	40	37	37	37	37	35	
9	62	51	45	40	59	50	43	39	46	41	38	43	39	36	40	37	34	34	34	34	32	
10	59	48	41	37	56	46	40	36	43	38	35	40	36	33	38	34	32	32	32	32	30	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20078	20078	20078
5°	19870	20155	20540
10°	20070	20345	20647
15°	20375	20478	20581
20°	20278	20248	19976
25°	19724	19489	19254
30°	18557	18377	17983
35°	16809	16566	16167
40°	13671	13578	6418
45°	8461	9646	442
50°	3227	2587	266
55°	1585	470	99
60°	768	227	29
65°	706	34	34
70°	665	42	42
75°	660	55	55
80°	653	83	0
85°	650	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 9646 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	4.8
10°-20°	775.2	13.9
20°-30°	1127.1	20.3
30°-40°	1121.6	20.2
40°-50°	493.2	8.9
50°-60°	72.8	1.3
60°-70°	16.6	0.3
70°-80°	6.2	0.1
80°-90°	2.1	0.0
90°-100°	38.5	0.7
100°-110°	274.1	4.9
110°-120°	372.2	6.7
120°-130°	302.9	5.4
130°-140°	243.6	4.4
140°-150°	192.1	3.5
150°-160°	140.4	2.5
160°-170°	87.2	1.6
170°-180°	29.7	0.5
0°-30°	2169.4	39.0
0°-40°	3291.0	59.2
0°-60°	3857.1	69.3
0°-90°	3882.0	69.8
90°-120°	684.8	12.3
90°-150°	1423.4	25.6
90°-180°	1681.0	30.2
0°-180°	5562.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2798	2798	2798	2798	2798	
5°	2758	2807	2798	2805	2852	263
15°	2743	2801	2756	2730	2770	771
25°	2491	2538	2461	2397	2432	1139
35°	1919	1913	1891	1851	1846	1175
45°	834	948	950	63	44	646
55°	127	136	38	14	8	128
65°	42	36	2	2	2	41
75°	24	4	2	2	2	25
85°	8	0	0	0	0	8
90°	0	2	4	6	6	1
95°	16	29	16	18	22	18
105°	61	94	356	455	301	64
115°	108	131	307	638	746	107
125°	156	177	289	506	598	138
135°	193	214	291	417	478	148
145°	228	248	293	363	402	143
155°	268	277	299	329	344	123
165°	297	301	307	315	321	83
175°	313	315	313	311	309	30
180°	313	313	313	313	313	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2798.0	2798.0	2798.0	2798.0	2798.0
2.5°	2766.3	2808.1	2793.2	2792.2	2817.0
5°	2758.4	2806.8	2798.0	2805.0	2851.5
7.5°	2752.9	2801.6	2801.6	2798.3	2844.7
10°	2754.4	2804.8	2792.1	2787.2	2833.6
12.5°	2754.4	2807.9	2781.0	2768.2	2816.2
15°	2742.6	2800.6	2756.4	2729.6	2770.3
17.5°	2699.8	2762.9	2702.2	2649.9	2683.9
20°	2655.4	2723.2	2651.5	2584.8	2615.8
22.5°	2600.0	2660.0	2581.8	2512.0	2544.5
25°	2491.1	2537.5	2461.4	2396.8	2431.7
27.5°	2353.6	2379.2	2322.4	2260.3	2282.8
30°	2239.6	2259.0	2217.8	2158.7	2170.3
32.5°	2117.6	2130.8	2097.4	2046.2	2056.2
35°	1918.8	1913.0	1891.1	1851.3	1845.5
37.5°	1659.0	1648.9	1634.8	1481.2	1062.2
40°	1459.4	1463.3	1449.5	905.9	685.1
42.5°	1248.7	1272.7	1253.1	616.8	224.2
45°	833.7	947.9	950.5	62.9	43.6
47.5°	450.7	575.0	467.7	39.0	31.7
50°	289.1	360.7	231.7	29.6	23.8
52.5°	206.7	241.2	90.7	23.2	17.4
55°	126.7	136.4	37.6	13.7	7.9
57.5°	75.6	90.0	23.8	5.1	2.0
60°	53.5	63.1	15.8	2.0	2.0
62.5°	47.1	47.5	11.1	2.0	2.0
65°	41.6	35.8	2.0	2.0	2.0
67.5°	36.4	26.0	2.0	2.0	2.0
70°	31.7	18.1	2.0	2.0	2.0
72.5°	28.5	11.9	2.0	2.0	2.0
75°	23.8	4.4	2.0	2.0	2.0
77.5°	19.0	2.4	2.0	1.6	1.6
80°	15.8	2.3	2.0	0.0	0.0
82.5°	12.7	2.2	0.4	0.0	0.0
85°	7.9	0.2	0.0	0.0	0.0
87.5°	3.2	0.5	0.8	1.2	1.2
90°	0.0	1.9	3.9	5.9	5.9
92.5°	4.7	6.6	8.7	12.2	13.8
95°	15.7	29.2	15.7	17.8	21.6
97.5°	27.9	56.0	115.7	34.1	29.5
100°	37.4	70.1	232.2	68.4	45.3
102.5°	46.8	81.1	314.1	180.4	98.8
105°	61.0	93.7	356.2	455.0	301.1
107.5°	75.2	99.8	340.1	662.3	620.3
110°	84.6	107.7	330.6	695.9	747.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.1	117.2	321.2	676.2	763.6
115°	108.2	131.3	307.0	638.1	745.9
117.5°	122.8	145.5	303.5	596.9	707.7
120°	133.8	155.0	297.2	565.5	680.9
122.5°	141.7	164.4	289.3	538.5	644.7
125°	155.5	176.6	289.3	505.9	598.3
127.5°	166.9	188.4	289.7	468.1	559.3
130°	173.2	196.3	291.3	442.8	529.4
132.5°	181.1	204.1	291.3	431.4	502.6
135°	192.9	214.0	291.3	416.6	478.2
137.5°	202.7	225.4	291.3	400.3	453.0
140°	210.6	231.7	291.3	390.8	438.9
142.5°	218.4	238.1	292.8	379.7	424.7
145°	228.3	247.5	293.2	363.0	401.5
147.5°	240.1	257.0	295.6	351.0	380.6
150°	248.0	263.4	297.2	343.0	368.0
152.5°	255.8	269.7	297.2	336.6	357.0
155°	267.6	277.3	299.1	329.0	344.4
157.5°	277.1	286.3	301.5	324.2	335.3
160°	283.4	291.1	303.1	321.0	330.6
162.5°	288.1	295.8	304.6	319.4	325.9
165°	297.2	301.0	307.0	315.0	320.8
167.5°	302.3	305.7	309.0	313.0	316.5
170°	307.0	308.9	309.0	313.0	314.9
172.5°	308.6	312.0	310.5	311.4	313.3
175°	312.9	314.8	312.9	310.9	309.0
177.5°	312.9	314.4	312.9	312.9	311.3
180°	312.9	312.9	312.9	312.9	312.9



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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	4.16	4.96	4.98	5.76	6.73	0.00	0.00	0.00	0.00	0.00
	3H	4.61	5.31	5.43	6.12	7.12	0.00	0.00	0.00	0.00	0.00
	4H	4.77	5.43	5.61	6.24	7.26	0.00	0.00	0.00	0.00	0.00
	6H	4.96	5.56	5.81	6.38	7.41	0.00	0.00	0.00	0.00	0.00
	8H	5.04	5.61	5.90	6.45	7.48	0.00	0.00	0.00	0.00	0.00
	12H	5.11	5.65	5.97	6.48	7.53	0.00	0.00	0.00	0.00	0.00
4H	2H	3.87	4.53	4.71	5.34	6.36	0.00	0.00	0.00	0.00	0.00
	3H	4.35	4.89	5.20	5.74	6.77	0.00	0.00	0.00	0.00	0.00
	4H	4.52	5.01	5.38	5.86	6.92	0.00	0.00	0.00	0.00	0.00
	6H	4.76	5.17	5.63	6.04	7.11	0.00	0.00	0.00	0.00	0.00
	8H	4.87	5.26	5.75	6.13	7.20	0.00	0.00	0.00	0.00	0.00
	12H	4.98	5.33	5.88	6.21	7.29	0.00	0.00	0.00	0.00	0.00
8H	4H	4.35	4.74	5.23	5.61	6.68	0.00	0.00	0.00	0.00	0.00
	6H	4.58	4.90	5.49	5.81	6.88	0.00	0.00	0.00	0.00	0.00
	8H	4.72	4.99	5.63	5.90	6.99	0.00	0.00	0.00	0.00	0.00
	12H	4.85	5.10	5.77	5.99	7.14	0.00	0.00	0.00	0.00	0.00
12H	4H	4.28	4.63	5.18	5.51	6.59	0.00	0.00	0.00	0.00	0.00
	6H	4.52	4.80	5.44	5.71	6.80	0.00	0.00	0.00	0.00	0.00
	8H	4.65	4.90	5.57	5.79	6.94	0.00	0.00	0.00	0.00	0.00