

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: P621964

Luminaire Tested: VLT-BB-M-100U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621964
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-26)
Test Lab: INNOVATION CENTER
Issue Date: 10/28/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-BB-M-100U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
BLACK BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

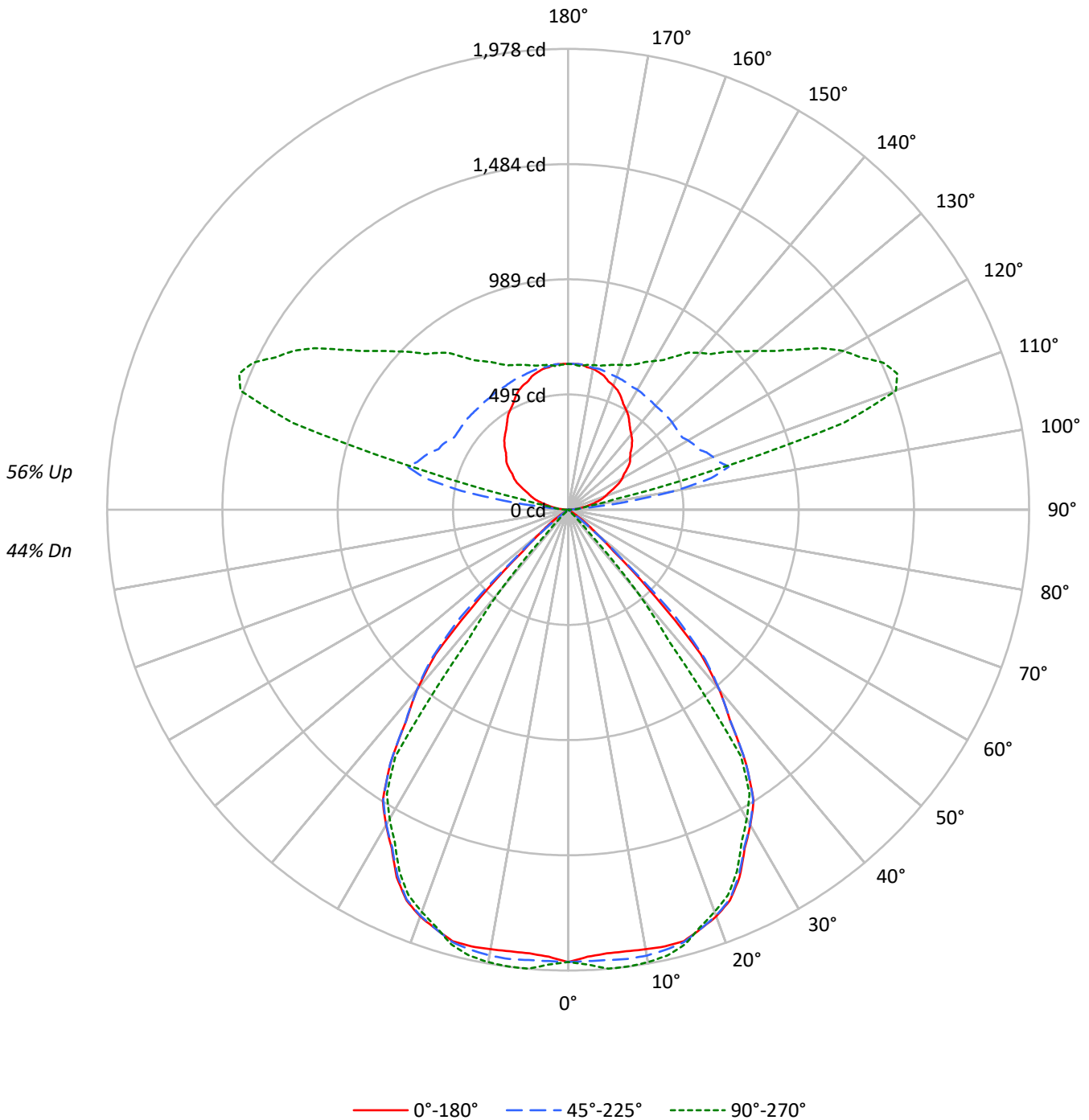
Lumens per Lamp: N/A
Luminaire Lumens: 6038.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 61.3
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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44				44
1	98	95	92	89	90	87	84	82	73	71	69	60	59	58	48	47	46	41				41
2	91	85	80	76	84	79	74	71	66	63	61	55	53	51	44	43	42	38				38
3	85	77	71	66	78	71	66	62	60	57	54	51	48	46	41	40	38	34				34
4	78	69	63	58	72	64	59	54	55	51	48	46	44	41	38	37	35	31				31
5	73	63	56	51	67	59	53	48	50	46	43	43	40	37	36	34	32	29				29
6	68	57	50	45	63	54	47	43	46	42	38	40	36	34	33	31	29	27				27
7	63	52	45	41	58	49	43	39	43	38	35	37	33	31	31	29	27	24				24
8	59	48	41	37	55	45	39	35	39	35	31	34	31	28	29	27	25	23				23
9	55	44	38	33	51	42	36	32	37	32	29	32	28	26	27	25	23	21				21
10	52	41	35	30	48	39	33	29	34	29	26	30	26	24	25	23	21	19				19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13932	13932	13932
5°	13766	13975	14246
10°	13957	14158	14369
15°	14241	14273	14359
20°	14185	14163	14031
25°	13779	13722	13562
30°	12956	12932	12693
35°	11643	11655	11326
40°	9453	9453	4326
45°	5436	6612	88
50°	1714	1584	80
55°	598	126	73
60°	42	83	83
65°	24	73	73
70°	29	90	90
75°	0	80	80
80°	0	120	120
85°	0	115	115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 6612 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	3.1
10°-20°	541.4	9.0
20°-30°	790.8	13.1
30°-40°	783.2	13.0
40°-50°	327.9	5.4
50°-60°	35.1	0.6
60°-70°	4.9	0.1
70°-80°	3.0	0.0
80°-90°	2.8	0.0
90°-100°	77.0	1.3
100°-110°	548.6	9.1
110°-120°	744.7	12.3
120°-130°	606.1	10.0
130°-140°	487.5	8.1
140°-150°	384.3	6.4
150°-160°	281.0	4.7
160°-170°	174.6	2.9
170°-180°	59.5	1.0
0°-30°	1517.7	25.1
0°-40°	2300.9	38.1
0°-60°	2663.9	44.1
0°-90°	2674.6	44.3
90°-120°	1370.3	22.7
90°-150°	2848.3	47.2
90°-180°	3363.0	55.7
0°-180°	6038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1911	1945	1940	1945	1978	183
15°	1917	1956	1921	1907	1933	538
25°	1740	1770	1733	1692	1713	795
35°	1329	1332	1330	1304	1293	815
45°	536	636	652	13	9	420
55°	48	63	10	7	6	54
65°	1	6	4	4	4	2
75°	0	3	3	3	3	0
85°	0	1	1	1	1	0
90°	0	4	8	12	12	1
95°	32	58	32	36	43	35
105°	122	188	713	910	602	129
115°	217	263	614	1277	1492	215
125°	311	353	579	1012	1197	276
135°	386	428	583	834	957	297
145°	457	495	587	726	803	287
155°	536	555	599	658	689	246
165°	595	602	614	630	642	167
175°	626	630	626	622	618	59
180°	626	626	626	626	626	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.5	1941.5	1941.5	1941.5	1941.5
2.5°	1920.7	1947.8	1939.2	1937.3	1954.2
5°	1911.1	1945.1	1940.1	1945.1	1977.7
7.5°	1912.0	1943.4	1945.3	1945.1	1977.7
10°	1915.4	1948.0	1943.0	1939.3	1971.9
12.5°	1920.1	1953.8	1934.8	1928.9	1960.3
15°	1916.9	1956.5	1921.2	1907.3	1932.8
17.5°	1887.6	1933.5	1887.1	1860.3	1879.0
20°	1857.5	1905.7	1854.6	1817.4	1837.3
22.5°	1814.7	1859.4	1810.6	1767.7	1790.9
25°	1740.3	1770.0	1733.0	1691.5	1712.8
27.5°	1638.9	1655.9	1634.9	1597.5	1610.5
30°	1563.6	1575.0	1560.7	1523.3	1531.8
32.5°	1480.2	1485.9	1477.3	1443.3	1447.2
35°	1329.1	1331.9	1330.5	1304.2	1292.9
37.5°	1142.3	1148.0	1144.6	1030.2	710.9
40°	1009.1	1014.8	1009.1	603.4	461.8
42.5°	842.3	878.6	869.0	411.5	131.8
45°	535.7	636.2	651.5	12.9	8.7
47.5°	264.7	373.1	306.4	8.4	8.4
50°	153.5	220.0	141.9	7.2	7.2
52.5°	102.5	133.9	41.1	7.2	7.2
55°	47.8	63.3	10.1	7.2	5.8
57.5°	16.8	31.8	6.9	5.8	5.8
60°	2.9	15.6	5.8	5.8	5.8
62.5°	1.7	8.8	5.8	4.7	5.8
65°	1.4	5.7	4.3	4.3	4.3
67.5°	1.4	4.3	4.3	4.3	4.3
70°	1.4	4.3	4.3	4.3	4.3
72.5°	0.3	3.1	3.2	3.2	4.3
75°	0.0	2.8	2.9	2.9	2.9
77.5°	0.0	2.8	2.9	2.9	2.9
80°	0.0	2.8	2.9	2.9	2.9
82.5°	0.0	1.7	1.7	1.8	2.9
85°	0.0	1.4	1.4	1.4	1.4
87.5°	0.0	1.9	2.7	3.5	3.5
90°	0.0	3.9	7.9	11.8	11.8
92.5°	9.5	13.3	17.3	24.5	27.6
95°	31.5	58.5	31.5	35.6	43.3
97.5°	55.9	112.1	231.5	68.3	59.1
100°	74.8	140.3	464.7	136.8	90.6
102.5°	93.7	162.3	628.5	360.9	197.7
105°	122.1	187.5	712.8	910.5	602.5
107.5°	150.4	199.7	680.5	1325.2	1241.2
110°	169.3	215.5	661.6	1392.4	1496.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.2	234.4	642.7	1353.1	1527.9
115°	216.6	262.8	614.3	1276.8	1492.5
117.5°	245.7	291.2	607.2	1194.3	1416.1
120°	267.8	310.1	594.6	1131.5	1362.5
122.5°	283.5	329.0	578.9	1077.5	1290.0
125°	311.1	353.4	578.9	1012.3	1197.1
127.5°	333.9	377.1	579.7	936.6	1119.1
130°	346.5	392.7	582.8	886.0	1059.3
132.5°	362.3	408.5	582.8	863.3	1005.7
135°	385.9	428.3	582.8	833.7	956.9
137.5°	405.6	451.0	582.8	801.0	906.5
140°	421.4	463.7	582.8	781.9	878.1
142.5°	437.1	476.4	586.0	759.7	849.8
145°	456.8	495.3	586.7	726.3	803.3
147.5°	480.4	514.3	591.5	702.3	761.6
150°	496.2	527.0	594.6	686.3	736.4
152.5°	511.9	539.6	594.6	673.5	714.3
155°	535.6	554.8	598.6	658.3	689.1
157.5°	554.5	572.9	603.3	648.7	671.0
160°	567.1	582.5	606.4	642.3	661.6
162.5°	576.5	591.9	609.6	639.0	652.1
165°	594.6	602.3	614.3	630.3	641.9
167.5°	604.9	611.8	618.2	626.3	633.2
170°	614.3	618.2	618.2	626.2	630.1
172.5°	617.5	624.4	621.4	623.1	626.9
175°	626.1	630.0	626.1	622.1	618.2
177.5°	626.1	629.2	626.1	626.1	623.0
180°	626.1	626.1	626.1	626.1	626.1



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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12H	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00