

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: P622072

Luminaire Tested: VLT-WB-M-150U-075D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622072
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-150U-075D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

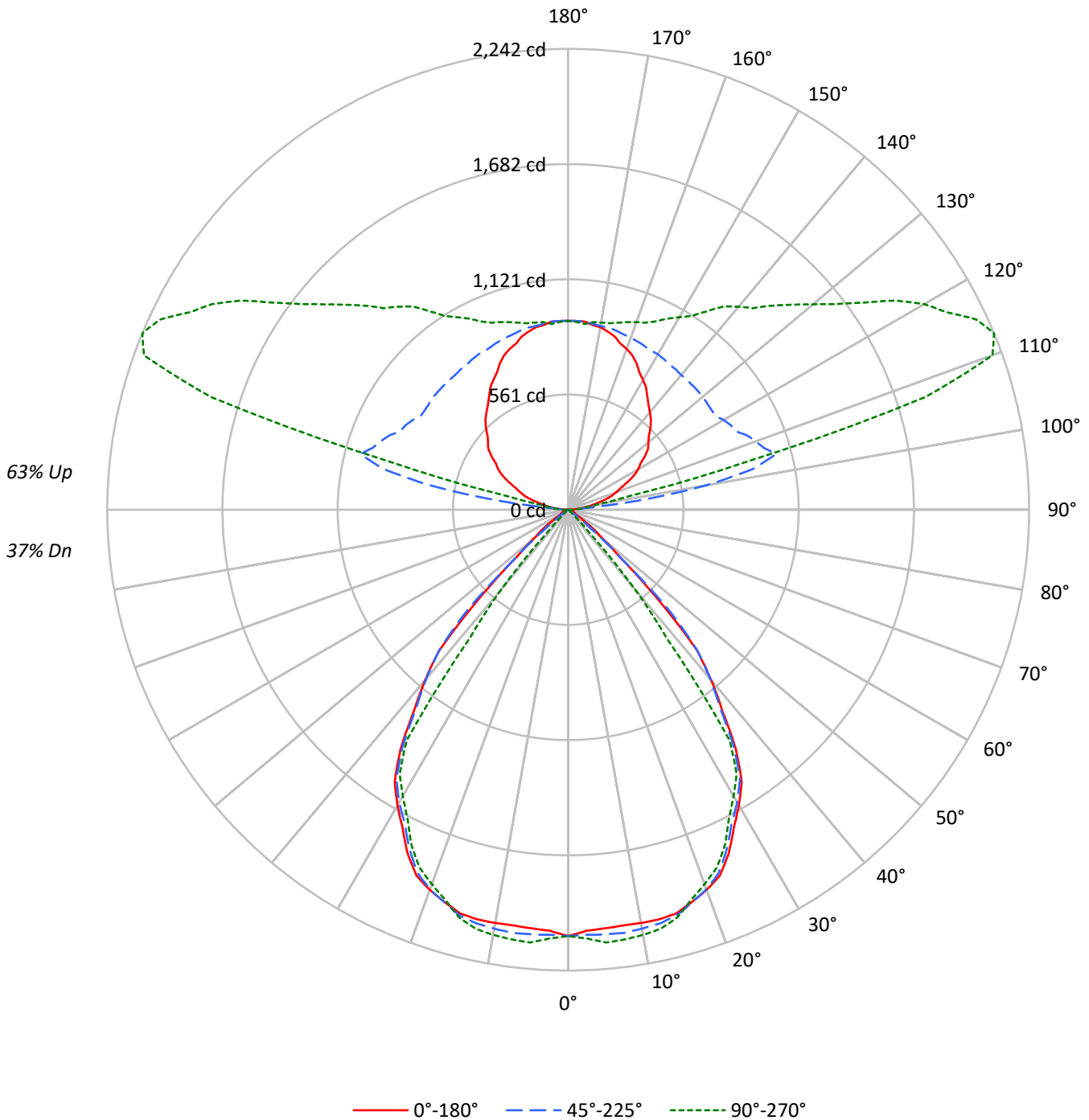
Lumens per Lamp: N/A
Luminaire Lumens: 7814.2 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.3
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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	96	93	89	86	87	84	82	79	69	67	65	54	53	52	41	41	40	34
2	89	83	78	73	81	76	71	68	62	59	57	50	48	46	38	37	36	31
3	82	74	68	63	75	68	63	59	56	53	50	46	43	41	35	34	33	28
4	76	67	60	55	69	61	56	51	51	47	44	42	39	37	33	31	30	26
5	71	60	53	48	64	56	50	45	47	42	39	38	35	33	31	29	27	24
6	65	55	48	43	60	51	45	40	43	38	35	35	32	30	28	26	25	22
7	61	50	43	38	56	46	40	36	39	35	31	33	29	27	26	24	23	20
8	57	46	39	34	52	42	36	32	36	32	28	30	27	25	25	22	21	19
9	53	42	35	31	49	39	33	29	33	29	26	28	25	23	23	21	19	17
10	50	39	32	28	46	36	30	26	31	27	24	26	23	21	22	19	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14882	14882	14882
5°	14727	14939	15224
10°	14876	15079	15304
15°	15102	15178	15254
20°	15030	15007	14806
25°	14619	14444	14270
30°	13755	13621	13329
35°	12459	12278	11983
40°	10133	10064	4757
45°	6271	7149	328
50°	2392	1917	196
55°	1175	349	74
60°	568	168	22
65°	523	25	25
70°	493	31	31
75°	488	42	42
80°	483	62	0
85°	486	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 7149 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	2.5
10°-20°	574.5	7.4
20°-30°	835.4	10.7
30°-40°	831.3	10.6
40°-50°	365.6	4.7
50°-60°	54.0	0.7
60°-70°	12.3	0.2
70°-80°	4.6	0.1
80°-90°	3.1	0.0
90°-100°	113.0	1.4
100°-110°	805.0	10.3
110°-120°	1092.8	14.0
120°-130°	889.4	11.4
130°-140°	715.4	9.2
140°-150°	564.0	7.2
150°-160°	412.4	5.3
160°-170°	256.1	3.3
170°-180°	87.3	1.1
0°-30°	1608.0	20.6
0°-40°	2439.3	31.2
0°-60°	2858.8	36.6
0°-90°	2878.9	36.8
90°-120°	2010.7	25.7
90°-150°	4179.5	53.5
90°-180°	4935.0	63.2
0°-180°	7814.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2044	2080	2074	2079	2114	195
15°	2033	2076	2043	2023	2053	572
25°	1846	1881	1824	1776	1802	844
35°	1422	1418	1402	1372	1368	871
45°	618	703	704	47	32	478
55°	94	101	28	10	6	95
65°	31	26	2	2	2	31
75°	18	3	2	2	2	19
85°	6	0	0	0	0	6
90°	0	6	12	17	17	2
95°	46	86	46	52	64	52
105°	179	275	1046	1336	884	189
115°	318	386	901	1874	2190	315
125°	456	519	849	1486	1757	406
135°	566	628	855	1223	1404	436
145°	670	727	861	1066	1179	421
155°	786	814	878	966	1011	361
165°	872	884	901	925	942	245
175°	919	924	919	913	907	87
180°	919	919	919	919	919	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2073.9	2073.9	2073.9	2073.9	2073.9
2.5°	2050.4	2081.4	2070.3	2069.6	2087.9
5°	2044.5	2080.4	2073.9	2079.0	2113.5
7.5°	2040.4	2076.6	2076.5	2074.0	2108.5
10°	2041.6	2078.9	2069.4	2065.8	2100.3
12.5°	2041.6	2081.2	2061.2	2051.8	2087.4
15°	2032.8	2075.8	2043.0	2023.2	2053.3
17.5°	2001.1	2047.8	2002.8	1964.1	1989.3
20°	1968.2	2018.4	1965.2	1915.9	1938.8
22.5°	1927.1	1971.6	1913.6	1861.9	1886.0
25°	1846.4	1880.8	1824.3	1776.5	1802.3
27.5°	1744.5	1763.4	1721.3	1675.3	1692.0
30°	1660.0	1674.3	1643.8	1600.0	1608.6
32.5°	1569.6	1579.3	1554.6	1516.6	1524.1
35°	1422.2	1417.9	1401.6	1372.2	1367.9
37.5°	1229.6	1222.2	1211.7	1097.8	787.3
40°	1081.7	1084.6	1074.4	671.4	507.8
42.5°	925.5	943.3	928.8	457.2	166.1
45°	617.9	702.6	704.5	46.6	32.3
47.5°	334.0	426.2	346.7	28.9	23.5
50°	214.3	267.4	171.7	21.9	17.6
52.5°	153.2	178.8	67.2	17.2	12.9
55°	93.9	101.1	27.9	10.2	5.9
57.5°	56.1	66.7	17.6	3.8	1.5
60°	39.6	46.8	11.7	1.5	1.5
62.5°	34.9	35.2	8.2	1.5	1.5
65°	30.8	26.5	1.5	1.5	1.5
67.5°	27.0	19.3	1.5	1.5	1.5
70°	23.5	13.4	1.5	1.5	1.5
72.5°	21.1	8.8	1.5	1.5	1.5
75°	17.6	3.3	1.5	1.5	1.5
77.5°	14.1	1.7	1.5	1.2	1.2
80°	11.7	1.7	1.5	0.0	0.0
82.5°	9.4	1.6	0.3	0.0	0.0
85°	5.9	0.1	0.0	0.0	0.0
87.5°	2.3	1.2	2.3	3.5	3.5
90°	0.0	5.7	11.6	17.3	17.3
92.5°	13.9	19.5	25.4	35.9	40.4
95°	46.2	85.8	46.2	52.3	63.6
97.5°	82.1	164.5	339.8	100.2	86.7
100°	109.8	205.8	681.9	200.7	132.9
102.5°	137.5	238.1	922.2	529.6	290.1
105°	179.1	275.2	1045.9	1336.1	884.1
107.5°	220.7	293.1	998.5	1944.5	1821.4
110°	248.5	316.3	970.8	2043.3	2195.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.2	344.0	943.0	1985.5	2242.0
115°	317.8	385.6	901.4	1873.6	2190.0
117.5°	360.6	427.2	891.0	1752.5	2077.9
120°	392.9	455.1	872.5	1660.3	1999.3
122.5°	416.0	482.7	849.4	1581.1	1893.0
125°	456.5	518.6	849.4	1485.5	1756.7
127.5°	490.0	553.3	850.6	1374.4	1642.2
130°	508.5	576.3	855.2	1300.2	1554.4
132.5°	531.6	599.4	855.2	1266.8	1475.8
135°	566.3	628.4	855.2	1223.4	1404.2
137.5°	595.2	661.9	855.2	1175.4	1330.2
140°	618.3	680.4	855.2	1147.3	1288.6
142.5°	641.4	699.0	859.8	1114.8	1247.0
145°	670.3	726.8	861.0	1065.8	1178.8
147.5°	705.0	754.7	867.9	1030.5	1117.6
150°	728.1	773.3	872.5	1007.1	1080.6
152.5°	751.2	791.9	872.5	988.3	1048.2
155°	785.9	814.1	878.3	966.0	1011.2
157.5°	813.6	840.7	885.3	951.9	984.7
160°	832.1	854.7	889.9	942.5	970.8
162.5°	846.0	868.6	894.5	937.7	956.9
165°	872.5	883.8	901.4	924.9	941.9
167.5°	887.6	897.7	907.2	919.0	929.2
170°	901.4	907.1	907.2	918.9	924.6
172.5°	906.1	916.2	911.8	914.3	919.9
175°	918.8	924.4	918.8	912.9	907.2
177.5°	918.8	923.3	918.8	918.7	914.2
180°	918.8	918.8	918.8	918.8	918.8



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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	0.55	1.01	1.62	3.08	0.00	0.00	0.00	0.00	0.00
	3H	0.35	0.92	1.45	2.00	3.47	0.00	0.00	0.00	0.00	0.00
	4H	0.51	1.04	1.62	2.12	3.61	0.00	0.00	0.00	0.00	0.00
	6H	0.69	1.18	1.81	2.26	3.76	0.00	0.00	0.00	0.00	0.00
	8H	0.77	1.24	1.89	2.33	3.82	0.00	0.00	0.00	0.00	0.00
	12H	0.83	1.28	1.96	2.37	3.88	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.14	0.73	1.22	2.71	0.00	0.00	0.00	0.00	0.00
	3H	0.08	0.52	1.20	1.63	3.12	0.00	0.00	0.00	0.00	0.00
	4H	0.25	0.66	1.38	1.76	3.27	0.00	0.00	0.00	0.00	0.00
	6H	0.48	0.83	1.61	1.95	3.46	0.00	0.00	0.00	0.00	0.00
	8H	0.60	0.92	1.73	2.04	3.56	0.00	0.00	0.00	0.00	0.00
	12H	0.71	1.00	1.85	2.12	3.65	0.00	0.00	0.00	0.00	0.00
8H	4H	0.08	0.40	1.21	1.52	3.04	0.00	0.00	0.00	0.00	0.00
	6H	0.31	0.58	1.46	1.73	3.25	0.00	0.00	0.00	0.00	0.00
	8H	0.45	0.68	1.61	1.82	3.36	0.00	0.00	0.00	0.00	0.00
	12H	0.59	0.79	1.74	1.92	3.49	0.00	0.00	0.00	0.00	0.00
12H	4H	0.01	0.30	1.15	1.42	2.95	0.00	0.00	0.00	0.00	0.00
	6H	0.26	0.49	1.41	1.62	3.16	0.00	0.00	0.00	0.00	0.00
	8H	0.38	0.58	1.54	1.72	3.29	0.00	0.00	0.00	0.00	0.00