



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VOL48AFA50-H.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]1410211019-002-001-P1  
 [TESTLAB]Intertek  
 [ISSUE DATE]10/27/2014  
 [MANUFAC]LAMAR LIGHTING CO., INC.  
 [LUMCAT]1410211019-002-001 MOD: VOL48AFA50-AS/VL48HFA50  
 [MORE]HIGH POWER SETTING (OUTPUT 1141MA)  
 [LUMINAIRE]SURFACE MOUNT  
 [LAMP]LED  
 [LAMP CAT]NA. LUMINAIRE OUTPUT = 5176 LMS  
 [OTHER]120.03 VAC, 417.8 mA, 50 W, 0.9918 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.06 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6391	6888	7692
55	5425	6443	7754
65	4397	6048	8117
75	3195	5941	9026
85	1481	7141	12071

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	1725.394	1725.394	1725.394	1725.394	1725.394
<b>2.5</b>	1722.888	1719.964	1726.856	1715.161	1727.274
<b>5.0</b>	1714.952	1710.358	1717.041	1709.105	1722.262
<b>7.5</b>	1701.796	1695.948	1702.631	1695.322	1709.523
<b>10.0</b>	1683.418	1677.571	1685.507	1677.780	1693.442
<b>12.5</b>	1659.611	1654.390	1661.699	1656.896	1674.229
<b>15.0</b>	1629.539	1625.571	1633.089	1633.089	1650.631
<b>17.5</b>	1593.619	1589.860	1601.973	1605.105	1627.450
<b>20.0</b>	1552.896	1548.511	1566.471	1576.495	1599.049
<b>22.5</b>	1506.535	1502.985	1526.374	1543.916	1568.350
<b>25.0</b>	1454.535	1453.491	1482.101	1505.491	1530.760
<b>27.5</b>	1397.732	1398.985	1433.234	1464.350	1490.872
<b>30.0</b>	1335.708	1339.676	1381.443	1422.375	1452.656
<b>32.5</b>	1268.672	1275.355	1327.981	1377.893	1410.680
<b>35.0</b>	1198.295	1207.901	1272.849	1331.323	1366.616
<b>37.5</b>	1125.202	1139.194	1214.166	1282.873	1323.387
<b>40.0</b>	1051.066	1069.652	1157.363	1233.379	1277.025
<b>42.5</b>	976.721	1000.110	1101.395	1184.303	1232.961
<b>45.0</b>	903.211	930.568	1044.383	1137.106	1189.524
<b>47.5</b>	831.163	861.444	988.624	1089.492	1145.877
<b>50.0</b>	760.994	794.617	932.030	1042.922	1102.022
<b>52.5</b>	692.497	730.296	876.271	997.604	1057.958
<b>55.0</b>	625.878	667.645	820.304	953.331	1014.311
<b>57.5</b>	560.931	605.204	764.545	909.894	970.247
<b>60.0</b>	498.071	543.180	708.577	863.324	925.974
<b>62.5</b>	437.091	482.200	654.071	817.589	881.701
<b>65.0</b>	377.782	423.308	599.565	771.645	836.175
<b>67.5</b>	320.979	366.505	546.521	724.239	788.769
<b>70.0</b>	267.100	312.417	496.192	676.834	741.990
<b>72.5</b>	216.562	262.088	448.577	630.473	696.256
<b>75.0</b>	172.080	215.935	403.678	585.573	650.521
<b>77.5</b>	133.237	174.168	360.658	541.927	604.995
<b>80.0</b>	93.767	137.622	320.353	498.907	559.678
<b>82.5</b>	58.474	105.670	282.971	456.513	514.987
<b>85.0</b>	29.863	78.104	247.678	414.537	470.087
<b>87.5</b>	10.024	55.550	214.473	373.814	425.606
<b>90.0</b>	0.418	37.799	182.731	334.136	381.333
<b>92.5</b>	0.000	24.016	153.285	294.457	338.313
<b>95.0</b>	0.000	13.783	125.927	255.196	296.128
<b>97.5</b>	0.000	7.309	101.076	217.188	256.449
<b>100.0</b>	0.000	3.341	79.148	182.104	219.277
<b>102.5</b>	0.000	0.835	60.980	150.779	184.401
<b>105.0</b>	0.000	0.000	46.361	123.421	153.285
<b>107.5</b>	0.000	0.000	34.040	99.197	125.927
<b>110.0</b>	0.000	0.000	24.225	78.104	102.329
<b>112.5</b>	0.000	0.000	16.289	60.353	81.863
<b>115.0</b>	0.000	0.000	9.815	45.944	64.112
<b>117.5</b>	0.000	0.000	5.221	34.040	48.867
<b>120.0</b>	0.000	0.000	1.671	23.598	36.546
<b>122.5</b>	0.000	0.000	0.209	15.454	26.104
<b>125.0</b>	0.000	0.000	0.000	9.189	17.751
<b>127.5</b>	0.000	0.000	0.000	4.177	10.859
<b>130.0</b>	0.000	0.000	0.000	1.044	5.430
<b>132.5</b>	0.000	0.000	0.000	0.000	1.253

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.000	0.000	0.000	0.000	0.000
<b>137.5</b>	0.000	0.000	0.000	0.000	0.000
<b>140.0</b>	0.000	0.000	0.000	0.000	0.000
<b>142.5</b>	0.000	0.000	0.000	0.000	0.000
<b>145.0</b>	0.000	0.000	0.000	0.000	0.000
<b>147.5</b>	0.000	0.000	0.000	0.000	0.000
<b>150.0</b>	0.000	0.000	0.000	0.000	0.000
<b>152.5</b>	0.000	0.000	0.000	0.000	0.000
<b>155.0</b>	0.000	0.000	0.000	0.000	0.000
<b>157.5</b>	0.000	0.000	0.000	0.000	0.000
<b>160.0</b>	0.000	0.000	0.000	0.000	0.000
<b>162.5</b>	0.000	0.000	0.000	0.000	0.000
<b>165.0</b>	0.000	0.000	0.000	0.000	0.000
<b>167.5</b>	0.000	0.000	0.000	0.000	0.000
<b>170.0</b>	0.209	0.000	0.000	0.000	0.000
<b>172.5</b>	0.209	0.209	0.000	0.000	0.000
<b>175.0</b>	0.209	0.209	0.000	0.000	0.000
<b>177.5</b>	0.209	0.209	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	622.91	N.A.	12.00
0-30	1305.69	N.A.	25.20
0-40	2102.15	N.A.	40.60
0-60	3635.02	N.A.	70.20
0-80	4659.09	N.A.	90.00
0-90	4931.57	N.A.	95.30
10-90	4769.01	N.A.	92.10
20-40	1479.25	N.A.	28.60
20-50	2282.23	N.A.	44.10
40-70	2128.06	N.A.	41.10
60-80	1024.08	N.A.	19.80
70-80	428.88	N.A.	8.30
80-90	272.48	N.A.	5.30
90-110	217.05	N.A.	4.20
90-120	240.03	N.A.	4.60
90-130	244.60	N.A.	4.70
90-150	244.73	N.A.	4.70
90-180	244.74	N.A.	4.70
110-180	27.68	N.A.	0.50
0-180	5176.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.57
10-20	460.34
20-30	682.78
30-40	796.46
40-50	802.98
50-60	729.88
60-70	595.20
70-80	428.88
80-90	272.48
90-100	149.98
100-110	67.08
110-120	22.98
120-130	4.57
130-140	0.13
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.01

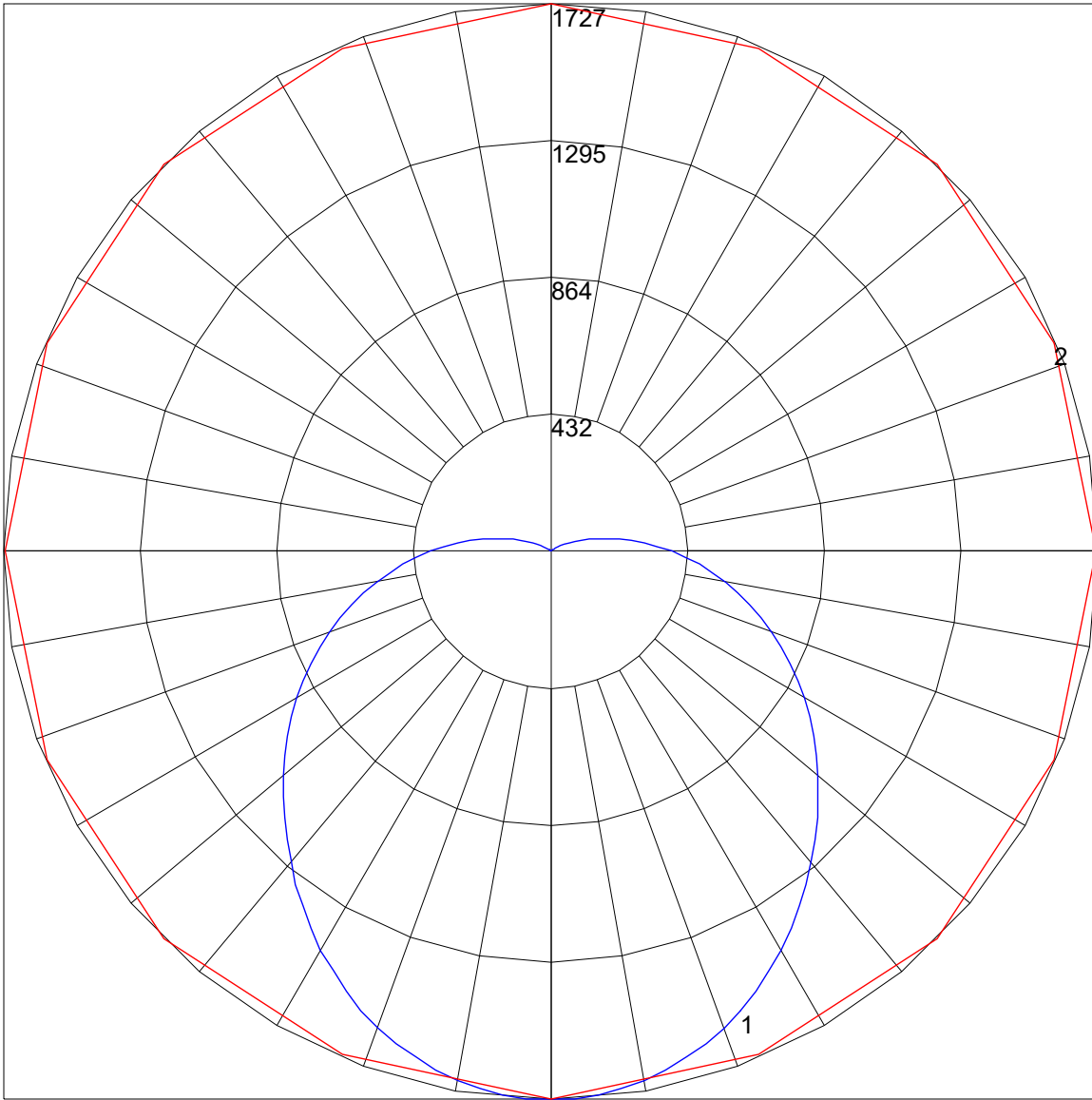
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

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
0	118	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	106	101	96	91	91	103	98	94	90	93	89	86	88	85	82	84	81	79	77
2	96	87	80	74	74	93	85	78	72	80	75	70	76	72	68	73	69	65	63
3	87	76	68	61	61	85	74	66	60	71	64	58	67	62	57	64	59	55	53
4	80	68	58	52	52	77	66	57	51	63	55	50	60	54	48	57	52	47	45
5	74	60	51	44	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	39	39	66	53	45	38	51	43	38	49	42	37	47	41	36	34
7	63	49	40	34	34	61	48	40	34	46	39	33	44	38	33	43	37	32	30
8	59	45	36	31	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	27	53	41	33	27	39	32	27	38	31	27	36	30	26	24
10	51	38	30	25	25	50	37	30	25	36	29	24	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 1727.274 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)