



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VOL24AFA50-L.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]1410211019-001-001  
 [TESTLAB]Intertek  
 [ISSUEDATE]10/29/2014  
 [MANUFAC]LAMAR LIGHTING CO., INC.  
 [LUMCAT]1410211019-001-001 MOD: VOL24AFA50-AS/VL24LFA50  
 [MORE]LOW POWER SETTING (OUTPUT 310 MA)  
 [LUMINAIRE]SURFACE MOUNT  
 [LAMP]LED  
 [LAMPCAT]NA. LUMINAIRE OUTPUT = 1495 LMS  
 [OTHER]120.04 VAC, 108.45 mA, 12.967 W, 0.9960 PF

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1495
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.90 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	3610	4024	4534
55	2999	3744	4530
65	2410	3604	4712
75	1694	3602	5214
85	680	4330	7050

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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>	493.592	493.592	493.592	493.592	493.592
<b>2.5</b>	495.179	491.882	491.638	493.225	493.348
<b>5.0</b>	492.615	489.197	489.319	492.127	492.615
<b>7.5</b>	488.342	484.924	485.168	488.586	489.929
<b>10.0</b>	482.360	479.552	480.284	484.069	485.656
<b>12.5</b>	474.668	472.471	474.180	478.697	479.918
<b>15.0</b>	465.390	463.803	466.122	471.860	474.058
<b>17.5</b>	454.402	453.792	457.699	464.657	467.710
<b>20.0</b>	441.827	442.438	448.542	456.966	460.384
<b>22.5</b>	427.666	429.253	437.554	447.932	451.961
<b>25.0</b>	412.161	414.724	424.613	436.456	441.217
<b>27.5</b>	395.557	399.097	410.696	423.881	429.619
<b>30.0</b>	377.366	382.372	396.656	412.649	419.242
<b>32.5</b>	358.199	364.914	382.128	399.830	407.155
<b>35.0</b>	337.811	346.112	366.623	385.546	393.848
<b>37.5</b>	316.324	326.212	349.775	371.018	380.541
<b>40.0</b>	294.592	306.068	332.561	355.879	366.379
<b>42.5</b>	272.861	285.924	315.713	341.595	352.827
<b>45.0</b>	251.252	265.658	298.865	327.677	339.886
<b>47.5</b>	230.131	245.514	282.018	313.393	326.457
<b>50.0</b>	209.743	225.736	265.414	299.232	313.271
<b>52.5</b>	190.209	207.423	249.787	285.802	300.208
<b>55.0</b>	171.530	189.721	234.404	272.861	287.267
<b>57.5</b>	153.584	172.507	219.754	260.164	274.692
<b>60.0</b>	136.370	155.537	205.104	246.613	262.118
<b>62.5</b>	119.766	139.300	190.942	233.061	248.688
<b>65.0</b>	103.773	123.428	176.780	219.266	235.259
<b>67.5</b>	88.146	108.046	162.496	205.348	221.097
<b>70.0</b>	73.251	93.395	148.578	192.163	207.667
<b>72.5</b>	59.334	79.356	135.149	179.588	194.971
<b>75.0</b>	46.759	66.415	122.452	167.135	182.152
<b>77.5</b>	35.527	54.694	110.121	155.049	169.455
<b>80.0</b>	24.905	44.439	98.767	143.450	157.368
<b>82.5</b>	15.383	35.161	87.902	132.341	145.282
<b>85.0</b>	7.691	26.981	77.524	120.865	133.073
<b>87.5</b>	1.953	20.144	67.757	109.389	120.865
<b>90.0</b>	0.000	14.650	58.723	97.913	108.656
<b>92.5</b>	0.000	10.133	50.299	87.047	96.814
<b>95.0</b>	0.000	6.471	42.119	76.059	85.216
<b>97.5</b>	0.000	4.029	34.550	65.560	73.984
<b>100.0</b>	0.000	2.442	27.713	55.305	63.484
<b>102.5</b>	0.000	1.343	22.097	46.148	53.596
<b>105.0</b>	0.000	0.610	17.702	38.335	44.683
<b>107.5</b>	0.000	0.122	13.918	31.620	37.236
<b>110.0</b>	0.000	0.000	10.621	26.004	30.888
<b>112.5</b>	0.000	0.000	7.936	21.121	25.272
<b>115.0</b>	0.000	0.000	5.616	16.726	20.510
<b>117.5</b>	0.000	0.000	3.785	12.941	16.115
<b>120.0</b>	0.000	0.000	2.442	10.011	12.697
<b>122.5</b>	0.000	0.000	1.221	7.325	9.767
<b>125.0</b>	0.000	0.000	0.000	5.006	7.081
<b>127.5</b>	0.000	0.000	0.000	3.296	4.883
<b>130.0</b>	0.000	0.000	0.000	1.831	3.174
<b>132.5</b>	0.000	0.000	0.000	0.366	1.709

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.000	0.000	0.000	0.000	0.366
<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>	0.000	0.000	0.000	0.000	0.000
<b>172.5</b>	0.000	0.000	0.000	0.000	0.000
<b>175.0</b>	0.000	0.000	0.000	0.000	0.000
<b>177.5</b>	0.000	0.000	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	178.52	N.A.	11.90
0-30	374.46	N.A.	25.00
0-40	603.19	N.A.	40.30
0-60	1039.98	N.A.	69.60
0-80	1335.48	N.A.	89.30
0-90	1416.71	N.A.	94.80
10-90	1370.15	N.A.	91.60
20-40	424.67	N.A.	28.40
20-50	653.94	N.A.	43.70
40-70	607.50	N.A.	40.60
60-80	295.50	N.A.	19.80
70-80	124.79	N.A.	8.30
80-90	81.23	N.A.	5.40
90-110	67.61	N.A.	4.50
90-120	76.01	N.A.	5.10
90-130	78.22	N.A.	5.20
90-150	78.38	N.A.	5.20
90-180	78.38	N.A.	5.20
110-180	10.77	N.A.	0.70
0-180	1495.09	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	46.56
10-20	131.96
20-30	195.94
30-40	228.74
40-50	229.26
50-60	207.53
60-70	170.71
70-80	124.79
80-90	81.23
90-100	46.11
100-110	21.50
110-120	8.40
120-130	2.21
130-140	0.16
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

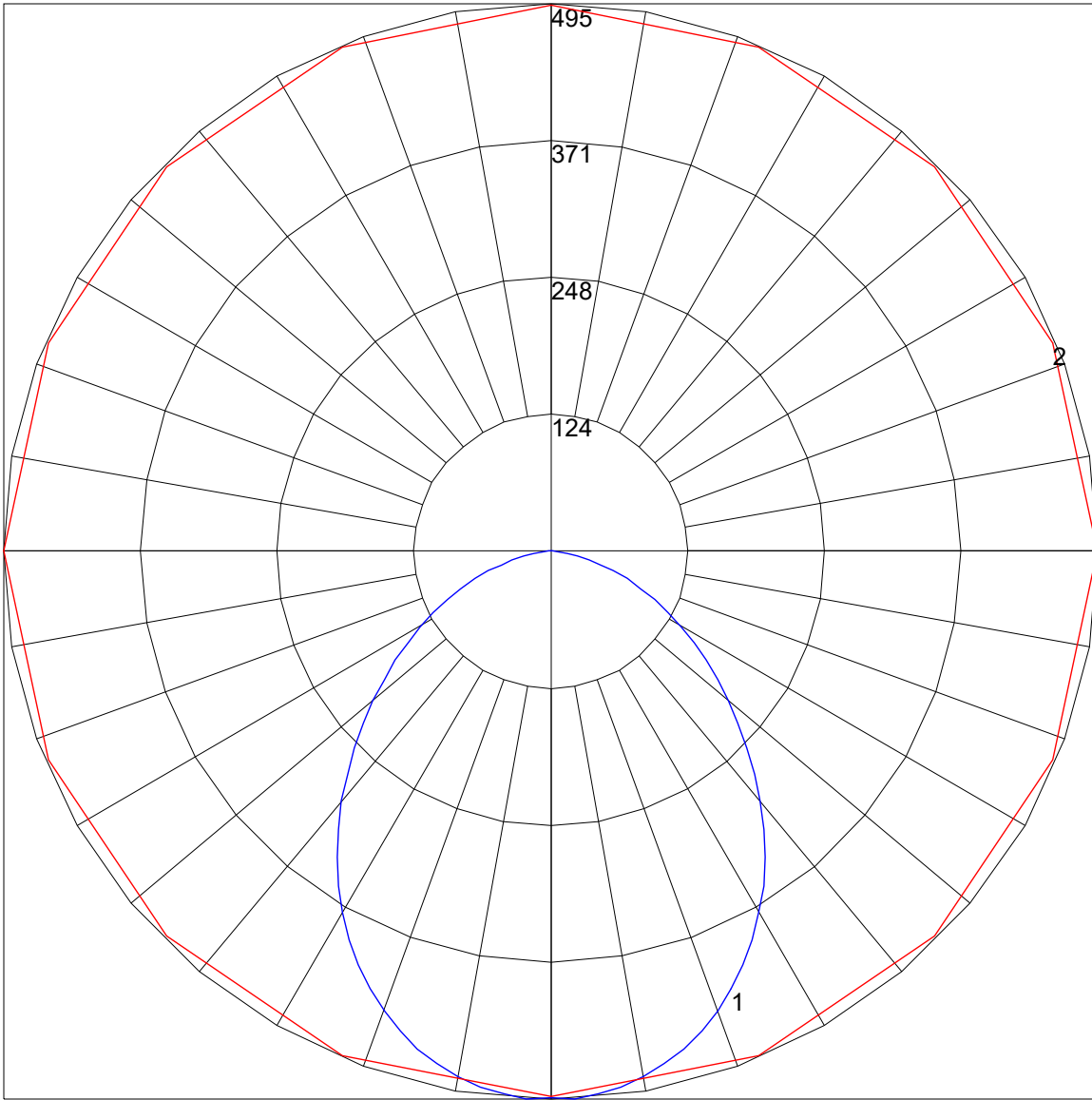
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	106	100	96	91	91	103	98	93	89	92	89	85	88	85	82	83	81	78	76
2	96	87	80	73	73	93	85	78	72	80	75	70	76	71	67	72	68	65	62
3	87	76	68	61	61	84	74	66	60	70	64	58	67	61	56	64	59	55	52
4	80	67	58	51	51	77	66	57	51	63	55	49	60	53	48	57	51	47	45
5	73	60	51	44	44	71	59	50	44	56	49	43	53	47	42	51	45	41	39
6	68	54	45	39	39	66	53	44	38	51	43	37	48	42	37	46	41	36	34
7	63	49	40	34	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	36	30	30	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	27	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	25	50	37	30	25	36	29	24	35	28	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 495.179 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)