



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VOL48AFA50-L.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1410211019-002-001
 [TESTLAB]Intertek
 [ISSUEDATE]10/27/2014
 [MANUFAC]LAMAR LIGHTING CO., INC.
 [LUMCAT]1410211019-002-001 MOD: VOL48AFA50-AS/VL48LFA50
 [MORE]LOW POWER SETTING (OUTPUT 620MA)
 [LUMINAIRE]SURFACE MOUNT
 [LAMP]LED
 [LAMPCAT]NA. LUMINAIRE OUTPUT = 2990 LMS
 [OTHER]120.03 VAC, 204.54 mA, 24.349 W, 0.9918 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2990
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	24.3
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	3691	3978	4442
55	3133	3721	4478
65	2539	3493	4688
75	1845	3432	5213
85	856	4124	6972

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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>
0.0	996.506	996.506	996.506	996.506	996.506
2.5	995.059	993.370	997.351	990.596	997.592
5.0	990.476	987.822	991.682	987.098	994.697
7.5	982.877	979.500	983.359	979.138	987.340
10.0	972.263	968.886	973.469	969.006	978.052
12.5	958.513	955.498	959.719	956.945	966.956
15.0	941.145	938.853	943.195	943.195	953.327
17.5	920.399	918.228	925.224	927.033	939.939
20.0	896.880	894.347	904.720	910.509	923.535
22.5	870.104	868.053	881.562	891.693	905.805
25.0	840.071	839.468	855.992	869.501	884.095
27.5	807.264	807.988	827.768	845.740	861.058
30.0	771.442	773.734	797.856	821.497	838.985
32.5	732.725	736.585	766.979	795.806	814.742
35.0	692.079	697.627	735.137	768.909	789.293
37.5	649.864	657.945	701.245	740.927	764.326
40.0	607.046	617.781	668.438	712.342	737.550
42.5	564.108	577.617	636.114	683.997	712.100
45.0	521.652	537.452	603.187	656.739	687.013
47.5	480.041	497.529	570.983	629.239	661.805
50.0	439.515	458.933	538.297	602.342	636.476
52.5	399.953	421.784	506.093	576.169	611.026
55.0	361.478	385.600	473.769	550.599	585.818
57.5	323.967	349.537	441.565	525.512	560.369
60.0	287.662	313.715	409.241	498.615	534.799
62.5	252.443	278.496	377.761	472.201	509.229
65.0	218.189	244.483	346.281	445.666	482.935
67.5	185.382	211.676	315.645	418.287	455.556
70.0	154.264	180.437	286.577	390.907	428.539
72.5	125.076	151.370	259.077	364.131	402.124
75.0	99.385	124.714	233.145	338.199	375.710
77.5	76.951	100.591	208.299	312.991	349.416
80.0	54.155	79.484	185.021	288.145	323.243
82.5	33.772	61.030	163.431	263.660	297.432
85.0	17.248	45.109	143.047	239.417	271.500
87.5	5.789	32.083	123.870	215.898	245.810
90.0	0.241	21.831	105.537	192.981	220.240
92.5	0.000	13.871	88.530	170.065	195.393
95.0	0.000	7.960	72.730	147.389	171.030
97.5	0.000	4.221	58.377	125.438	148.113
100.0	0.000	1.930	45.712	105.175	126.644
102.5	0.000	0.482	35.219	87.083	106.501
105.0	0.000	0.000	26.776	71.282	88.530
107.5	0.000	0.000	19.660	57.291	72.730
110.0	0.000	0.000	13.991	45.109	59.100
112.5	0.000	0.000	9.408	34.857	47.280
115.0	0.000	0.000	5.669	26.535	37.028
117.5	0.000	0.000	3.015	19.660	28.223
120.0	0.000	0.000	0.965	13.629	21.107
122.5	0.000	0.000	0.121	8.925	15.077
125.0	0.000	0.000	0.000	5.307	10.252
127.5	0.000	0.000	0.000	2.412	6.272
130.0	0.000	0.000	0.000	0.603	3.136
132.5	0.000	0.000	0.000	0.000	0.724

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
170.0	0.121	0.000	0.000	0.000	0.000
172.5	0.121	0.121	0.000	0.000	0.000
175.0	0.121	0.121	0.000	0.000	0.000
177.5	0.121	0.121	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	359.76	N.A.	12.00
0-30	754.10	N.A.	25.20
0-40	1214.1	N.A.	40.60
0-60	2099.41	N.A.	70.20
0-80	2690.87	N.A.	90.00
0-90	2848.24	N.A.	95.30
10-90	2754.35	N.A.	92.10
20-40	854.34	N.A.	28.60
20-50	1318.11	N.A.	44.10
40-70	1229.07	N.A.	41.10
60-80	591.46	N.A.	19.80
70-80	247.70	N.A.	8.30
80-90	157.37	N.A.	5.30
90-110	125.36	N.A.	4.20
90-120	138.63	N.A.	4.60
90-130	141.27	N.A.	4.70
90-150	141.34	N.A.	4.70
90-180	141.35	N.A.	4.70
110-180	15.99	N.A.	0.50
0-180	2989.59	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.89
10-20	265.87
20-30	394.34
30-40	460.00
40-50	463.76
50-60	421.55
60-70	343.76
70-80	247.70
80-90	157.37
90-100	86.62
100-110	38.74
110-120	13.27
120-130	2.64
130-140	0.07
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

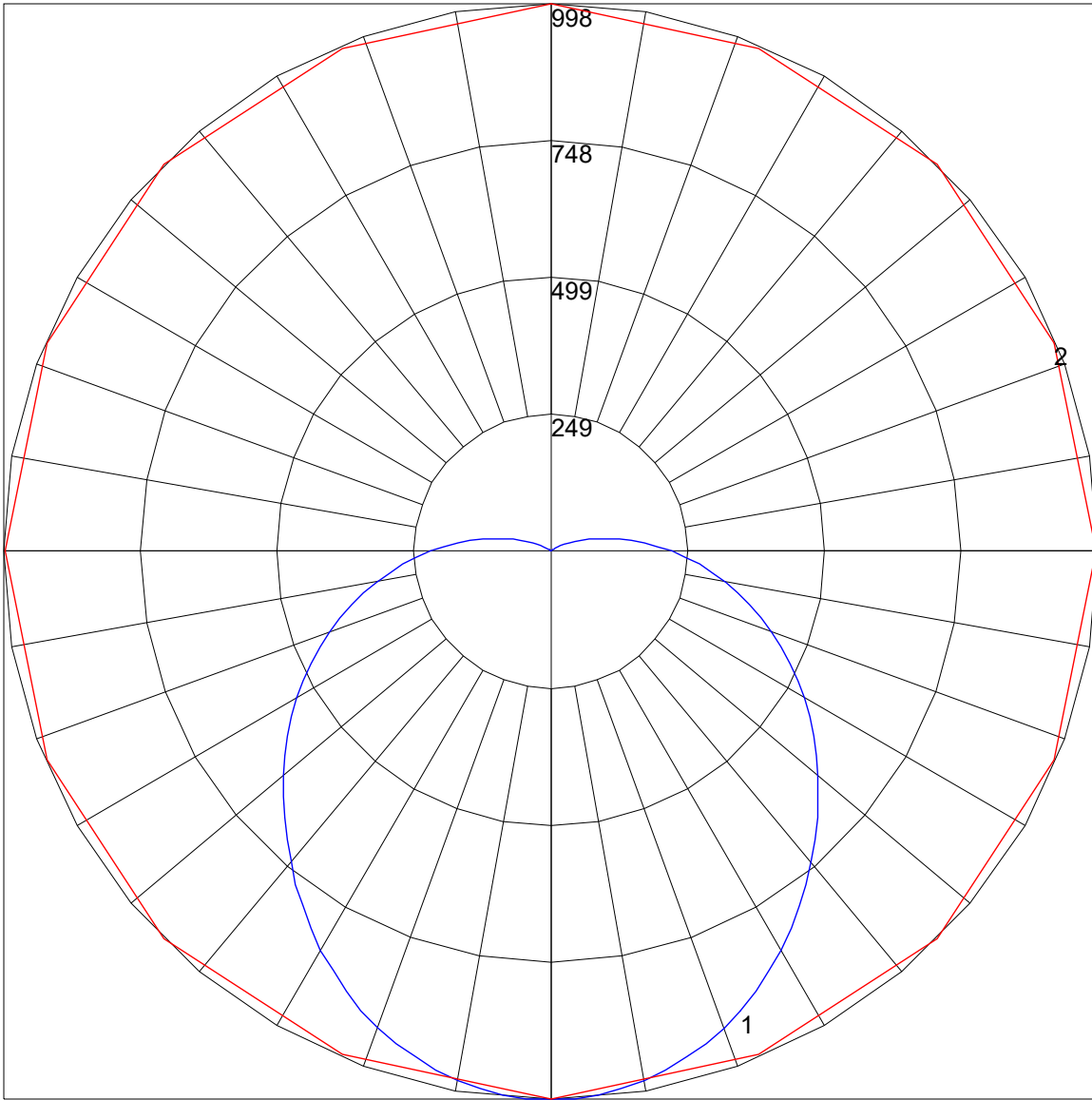
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	106	101	96	91	91	103	98	93	89	93	89	86	88	85	82	84	81	79	76
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	84	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	26	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 = 997.592 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.)