



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VOL48AFA50-M.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1410211019-002-001-P
 [TESTLAB]Intertek
 [ISSUEDATE]10/27/2014
 [MANUFAC]LAMAR LIGHTING CO., INC.
 [LUMCAT]1410211019-002-001 MOD: VOL48AFA50-AS/VL48MFA50
 [MORE]MED POWER SETTING (OUTPUT 880MA)
 [LUMINAIRE]SURFACE MOUNT
 [LAMP]LED
 [LAMPCAT]NA. LUMINAIRE OUTPUT = 4119 LMS
 [OTHER]120.03 VAC, 313.8 mA, 36 W, 0.9918 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4119
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	36
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	5086	5481	6121
55	4317	5127	6170
65	3499	4813	6460
75	2543	4728	7183
85	1179	5682	9606

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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	1373.016	1373.016	1373.016	1373.016	1373.016
2.5	1371.022	1368.696	1374.180	1364.873	1374.512
5.0	1364.707	1361.051	1366.369	1360.054	1370.524
7.5	1354.237	1349.584	1354.902	1349.086	1360.386
10.0	1339.613	1334.960	1341.275	1335.126	1347.590
12.5	1320.668	1316.514	1322.330	1318.508	1332.301
15.0	1296.738	1293.580	1299.563	1299.563	1313.522
17.5	1268.154	1265.163	1274.801	1277.294	1295.076
20.0	1235.748	1232.258	1246.550	1254.527	1272.475
22.5	1198.855	1196.030	1214.642	1228.602	1248.046
25.0	1157.475	1156.644	1179.411	1198.024	1218.132
27.5	1112.273	1113.270	1140.524	1165.286	1186.391
30.0	1062.916	1066.074	1099.310	1131.883	1155.979
32.5	1009.571	1014.889	1056.767	1096.485	1122.576
35.0	953.567	961.211	1012.895	1059.426	1087.511
37.5	895.402	906.536	966.197	1020.871	1053.111
40.0	836.407	851.197	920.994	981.486	1016.218
42.5	777.245	795.858	876.457	942.432	981.153
45.0	718.748	740.518	831.089	904.875	946.587
47.5	661.414	685.511	786.717	866.985	911.854
50.0	605.576	632.332	741.681	829.925	876.956
52.5	551.068	581.147	697.310	793.863	841.891
55.0	498.055	531.292	652.773	758.632	807.158
57.5	446.372	481.603	608.401	724.066	772.093
60.0	396.350	432.246	563.864	687.007	736.862
62.5	347.824	383.720	520.490	650.612	701.631
65.0	300.628	336.856	477.116	614.052	665.403
67.5	255.426	291.654	434.905	576.328	627.679
70.0	212.550	248.612	394.854	538.604	590.454
72.5	172.333	208.562	356.964	501.711	554.059
75.0	136.936	171.835	321.235	465.981	517.665
77.5	106.026	138.598	287.001	431.249	481.436
80.0	74.617	109.516	254.927	397.015	445.374
82.5	46.532	84.089	225.180	363.279	409.811
85.0	23.764	62.153	197.095	329.876	374.081
87.5	7.977	44.205	170.671	297.470	338.684
90.0	0.332	30.079	145.411	265.895	303.453
92.5	0.000	19.111	121.979	234.320	269.219
95.0	0.000	10.968	100.209	203.077	235.650
97.5	0.000	5.816	80.433	172.832	204.075
100.0	0.000	2.659	62.984	144.913	174.494
102.5	0.000	0.665	48.526	119.985	146.741
105.0	0.000	0.000	36.893	98.215	121.979
107.5	0.000	0.000	27.088	78.938	100.209
110.0	0.000	0.000	19.277	62.153	81.430
112.5	0.000	0.000	12.962	48.027	65.144
115.0	0.000	0.000	7.811	36.561	51.019
117.5	0.000	0.000	4.155	27.088	38.887
120.0	0.000	0.000	1.329	18.779	29.082
122.5	0.000	0.000	0.166	12.298	20.773
125.0	0.000	0.000	0.000	7.312	14.126
127.5	0.000	0.000	0.000	3.324	8.642
130.0	0.000	0.000	0.000	0.831	4.321
132.5	0.000	0.000	0.000	0.000	0.997

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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	0.166	0.000	0.000	0.000	0.000
172.5	0.166	0.166	0.000	0.000	0.000
175.0	0.166	0.166	0.000	0.000	0.000
177.5	0.166	0.166	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	495.69	N.A.	12.00
0-30	1039.03	N.A.	25.20
0-40	1672.83	N.A.	40.60
0-60	2892.63	N.A.	70.20
0-80	3707.57	N.A.	90.00
0-90	3924.4	N.A.	95.30
10-90	3795.03	N.A.	92.10
20-40	1177.14	N.A.	28.60
20-50	1816.13	N.A.	44.10
40-70	1693.45	N.A.	41.10
60-80	814.93	N.A.	19.80
70-80	341.29	N.A.	8.30
80-90	216.83	N.A.	5.30
90-110	172.72	N.A.	4.20
90-120	191.01	N.A.	4.60
90-130	194.65	N.A.	4.70
90-150	194.75	N.A.	4.70
90-180	194.75	N.A.	4.70
110-180	22.03	N.A.	0.50
0-180	4119.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	129.37
10-20	366.32
20-30	543.34
30-40	633.80
40-50	638.99
50-60	580.82
60-70	473.64
70-80	341.29
80-90	216.83
90-100	119.35
100-110	53.38
110-120	18.28
120-130	3.64
130-140	0.10
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

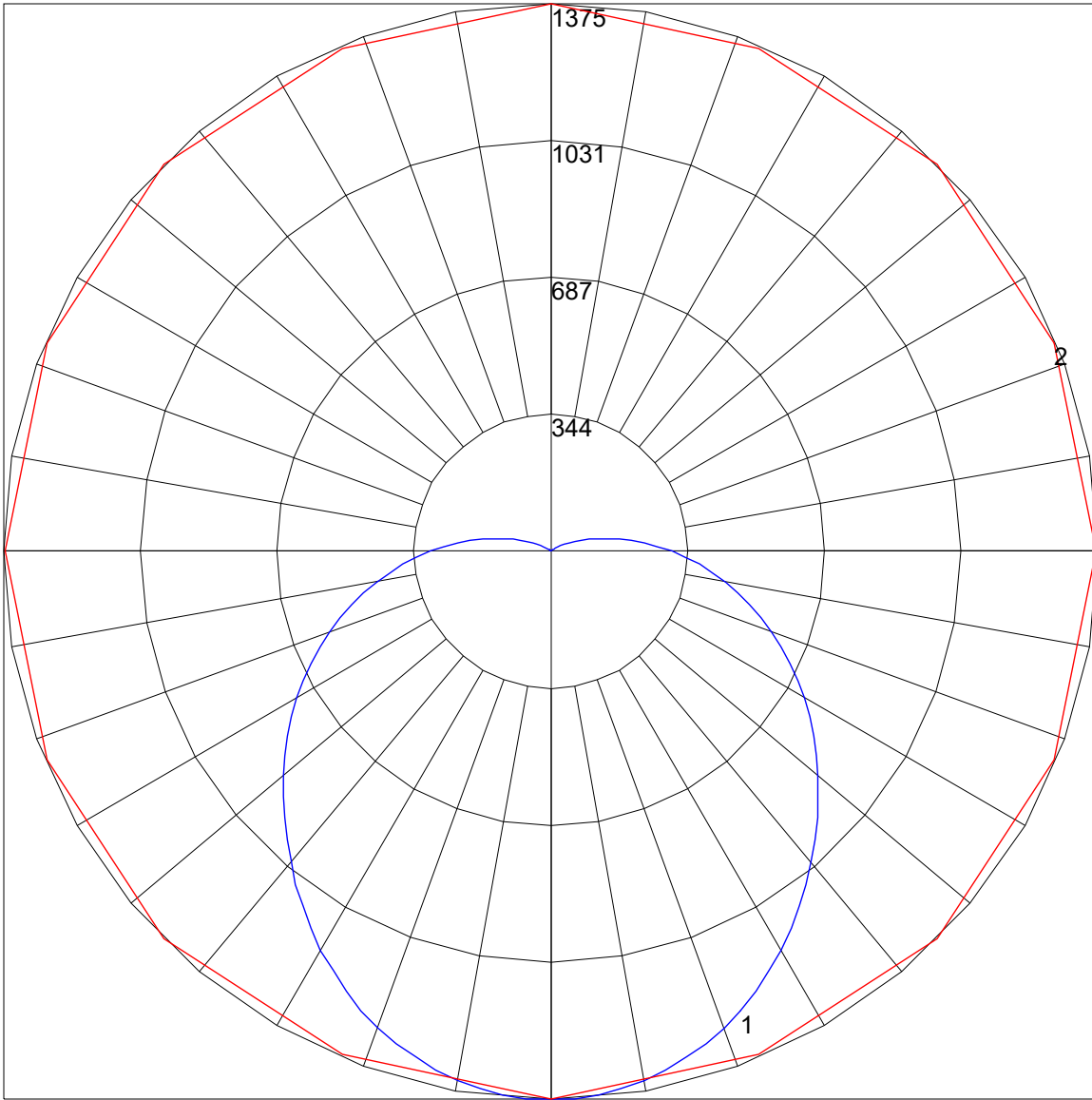
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1374.512 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.)