



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VOL24AFA50-M.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1410211019-001-001-P
 [TESTLAB]Intertek
 [ISSUEDATE]10/29/2014
 [MANUFAC]LAMAR LIGHTING CO., INC.
 [LUMCAT]1410211019-001-001 MOD: VOL24AFA50-AS/VL24MFA50
 [MORE]MED POWER SETTING (OUTPUT 440 MA)
 [LUMINAIRE]SURFACE MOUNT
 [LAMP]LED
 [LAMP]CAT]NA. LUMINAIRE OUTPUT = 2060 LMS
 [OTHER]120.04 VAC, 156.9 mA, 18.78 W, 0.9970 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2060
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	18.78
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	4974	5544	6247
55	4132	5158	6242
65	3321	4966	6492
75	2334	4963	7184
85	936	5965	9713

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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	680.033	680.033	680.033	680.033	680.033
2.5	682.219	677.678	677.341	679.528	679.696
5.0	678.687	673.977	674.146	678.014	678.687
7.5	672.800	668.090	668.427	673.136	674.987
10.0	664.558	660.690	661.699	666.913	669.100
12.5	653.962	650.934	653.289	659.512	661.194
15.0	641.178	638.992	642.188	650.093	653.121
17.5	626.040	625.199	630.582	640.169	644.374
20.0	608.716	609.557	617.967	629.573	634.282
22.5	589.205	591.391	602.829	617.126	622.676
25.0	567.843	571.375	585.000	601.315	607.875
27.5	544.968	549.846	565.825	583.990	591.896
30.0	519.906	526.802	546.482	568.516	577.599
32.5	493.499	502.750	526.466	550.855	560.947
35.0	465.409	476.847	505.105	531.176	542.613
37.5	435.806	449.430	481.893	511.160	524.279
40.0	405.867	421.677	458.177	490.303	504.768
42.5	375.927	393.924	434.965	470.624	486.098
45.0	346.156	366.003	411.754	451.449	468.269
47.5	317.057	338.250	388.542	431.769	449.767
50.0	288.968	311.002	365.667	412.258	431.601
52.5	262.056	285.772	344.137	393.756	413.604
55.0	236.321	261.383	322.944	375.927	395.775
57.5	211.596	237.667	302.760	358.434	378.450
60.0	187.879	214.287	282.576	339.764	361.125
62.5	165.004	191.916	263.065	321.094	342.623
65.0	142.970	170.050	243.554	302.087	324.121
67.5	121.440	148.857	223.874	282.912	304.610
70.0	100.920	128.673	204.699	264.747	286.108
72.5	81.745	109.330	186.197	247.422	268.615
75.0	64.421	91.501	168.705	230.266	250.954
77.5	48.946	75.354	151.716	213.614	233.462
80.0	34.313	61.225	136.074	197.635	216.810
82.5	21.193	48.442	121.104	182.329	200.158
85.0	10.597	37.172	106.807	166.518	183.338
87.5	2.691	27.753	93.351	150.707	166.518
90.0	0.000	20.184	80.904	134.896	149.698
92.5	0.000	13.961	69.298	119.927	133.383
95.0	0.000	8.915	58.029	104.789	117.404
97.5	0.000	5.551	47.601	90.323	101.929
100.0	0.000	3.364	38.181	76.195	87.464
102.5	0.000	1.850	30.444	63.580	73.840
105.0	0.000	0.841	24.389	52.815	61.561
107.5	0.000	0.168	19.175	43.564	51.301
110.0	0.000	0.000	14.633	35.827	42.555
112.5	0.000	0.000	10.933	29.099	34.817
115.0	0.000	0.000	7.737	23.043	28.258
117.5	0.000	0.000	5.214	17.829	22.202
120.0	0.000	0.000	3.364	13.792	17.493
122.5	0.000	0.000	1.682	10.092	13.456
125.0	0.000	0.000	0.000	6.896	9.756
127.5	0.000	0.000	0.000	4.541	6.728
130.0	0.000	0.000	0.000	2.523	4.373
132.5	0.000	0.000	0.000	0.505	2.355

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.505
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	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	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	245.95	N.A.	11.90
0-30	515.90	N.A.	25.00
0-40	831.04	N.A.	40.30
0-60	1432.81	N.A.	69.60
0-80	1839.93	N.A.	89.30
0-90	1951.84	N.A.	94.80
10-90	1887.69	N.A.	91.60
20-40	585.08	N.A.	28.40
20-50	900.94	N.A.	43.70
40-70	836.96	N.A.	40.60
60-80	407.12	N.A.	19.80
70-80	171.93	N.A.	8.30
80-90	111.91	N.A.	5.40
90-110	93.15	N.A.	4.50
90-120	104.72	N.A.	5.10
90-130	107.77	N.A.	5.20
90-150	107.99	N.A.	5.20
90-180	107.99	N.A.	5.20
110-180	14.83	N.A.	0.70
0-180	2059.82	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	64.15
10-20	181.81
20-30	269.95
30-40	315.14
40-50	315.86
50-60	285.91
60-70	235.19
70-80	171.93
80-90	111.91
90-100	63.53
100-110	29.63
110-120	11.57
120-130	3.04
130-140	0.22
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

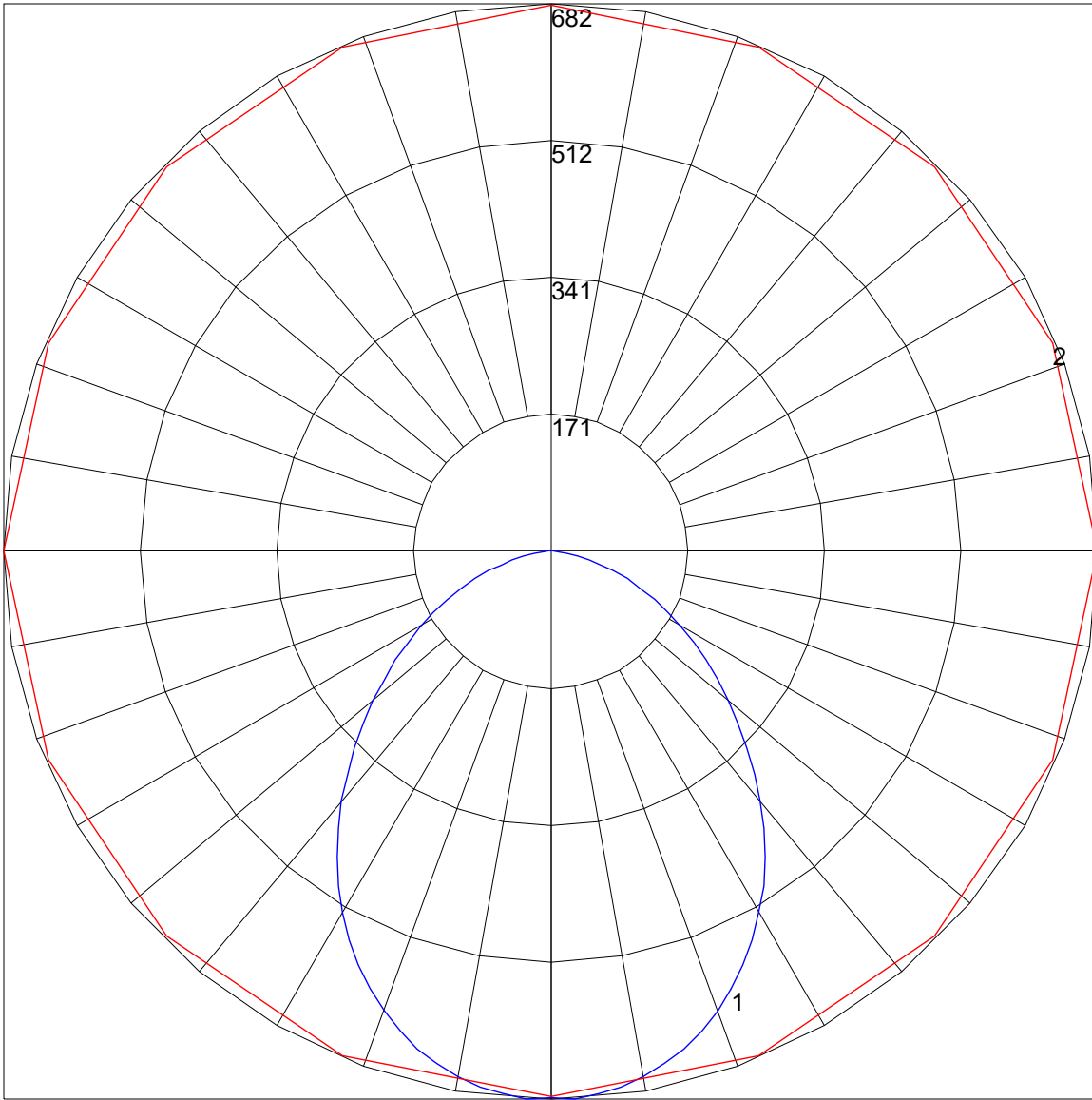
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 682.219 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.)