



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VOL24AFA50-H.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1410211019-001-001-P1
 [TESTLAB]Intertek
 [ISSUE DATE]10/29/2014
 [MANUFAC]LAMAR LIGHTING CO., INC.
 [LUMCAT]1410211019-001-001 MOD: VOL24AFA50-AS/VL24HFA50
 [MORE]HIGH POWER SETTING (OUTPUT 571 MA)
 [LUMINAIRE]SURFACE MOUNT
 [LAMP]LED
 [LAMP CAT]NA. LUMINAIRE OUTPUT = 2592 LMS
 [OTHER]120.04 VAC, 208.9 mA, 25 W, 0.9970 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2592
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	25
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	6258	6976	7860
55	5199	6490	7854
65	4178	6248	8168
75	2936	6245	9039
85	1178	7506	12221

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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	855.642	855.642	855.642	855.642	855.642
2.5	858.394	852.679	852.256	855.007	855.219
5.0	853.949	848.023	848.235	853.103	853.949
7.5	846.542	840.616	841.039	846.965	849.293
10.0	836.172	831.304	832.574	839.135	841.886
12.5	822.839	819.029	821.992	829.823	831.939
15.0	806.755	804.003	808.024	817.971	821.781
17.5	787.707	786.649	793.421	805.485	810.776
20.0	765.909	766.967	777.549	792.152	798.077
22.5	741.359	744.110	758.502	776.491	783.475
25.0	714.481	718.926	736.068	756.597	764.851
27.5	685.699	691.836	711.942	734.798	744.745
30.0	654.165	662.842	687.604	715.328	726.756
32.5	620.939	632.578	662.419	693.106	705.804
35.0	585.595	599.987	635.541	668.345	682.736
37.5	548.348	565.490	606.336	643.160	659.668
40.0	510.676	530.570	576.495	616.917	635.118
42.5	473.005	495.650	547.289	592.156	611.627
45.0	435.546	460.519	518.084	568.030	589.193
47.5	398.933	425.599	488.878	543.268	565.913
50.0	363.590	391.314	460.096	518.719	543.057
52.5	329.728	359.569	433.006	495.439	520.412
55.0	297.348	328.882	406.340	473.005	497.978
57.5	266.237	299.041	380.944	450.995	476.180
60.0	236.397	269.624	355.548	427.504	454.381
62.5	207.614	241.476	330.998	404.012	431.102
65.0	179.890	213.963	306.448	380.097	407.822
67.5	152.801	187.297	281.687	355.971	383.272
70.0	126.981	161.901	257.560	333.114	359.992
72.5	102.855	137.563	234.280	311.316	337.982
75.0	81.056	115.130	212.270	289.729	315.760
77.5	61.586	94.813	190.895	268.777	293.750
80.0	43.174	77.035	171.213	248.672	272.798
82.5	26.666	60.951	152.378	229.413	251.846
85.0	13.333	46.771	134.389	209.519	230.683
87.5	3.386	34.920	117.458	189.625	209.519
90.0	0.000	25.396	101.797	169.732	188.356
92.5	0.000	17.566	87.194	150.896	167.827
95.0	0.000	11.217	73.014	131.849	147.722
97.5	0.000	6.984	59.893	113.648	128.251
100.0	0.000	4.233	48.041	95.871	110.050
102.5	0.000	2.328	38.306	79.998	92.908
105.0	0.000	1.058	30.687	66.454	77.459
107.5	0.000	0.212	24.126	54.814	64.549
110.0	0.000	0.000	18.412	45.078	53.544
112.5	0.000	0.000	13.756	36.613	43.809
115.0	0.000	0.000	9.735	28.994	35.555
117.5	0.000	0.000	6.561	22.433	27.936
120.0	0.000	0.000	4.233	17.354	22.010
122.5	0.000	0.000	2.116	12.698	16.931
125.0	0.000	0.000	0.000	8.677	12.275
127.5	0.000	0.000	0.000	5.714	8.465
130.0	0.000	0.000	0.000	3.175	5.503
132.5	0.000	0.000	0.000	0.635	2.963

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CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.635
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	309.47	N.A.	11.90
0-30	649.12	N.A.	25.00
0-40	1045.64	N.A.	40.30
0-60	1802.82	N.A.	69.60
0-80	2315.06	N.A.	89.30
0-90	2455.87	N.A.	94.80
10-90	2375.16	N.A.	91.60
20-40	736.17	N.A.	28.40
20-50	1133.6	N.A.	43.70
40-70	1053.1	N.A.	40.60
60-80	512.25	N.A.	19.80
70-80	216.33	N.A.	8.30
80-90	140.81	N.A.	5.40
90-110	117.21	N.A.	4.50
90-120	131.77	N.A.	5.10
90-130	135.60	N.A.	5.20
90-150	135.87	N.A.	5.20
90-180	135.87	N.A.	5.20
110-180	18.66	N.A.	0.70
0-180	2591.74	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.71
10-20	228.76
20-30	339.66
30-40	396.52
40-50	397.43
50-60	359.75
60-70	295.92
70-80	216.33
80-90	140.81
90-100	79.93
100-110	37.28
110-120	14.56
120-130	3.83
130-140	0.27
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

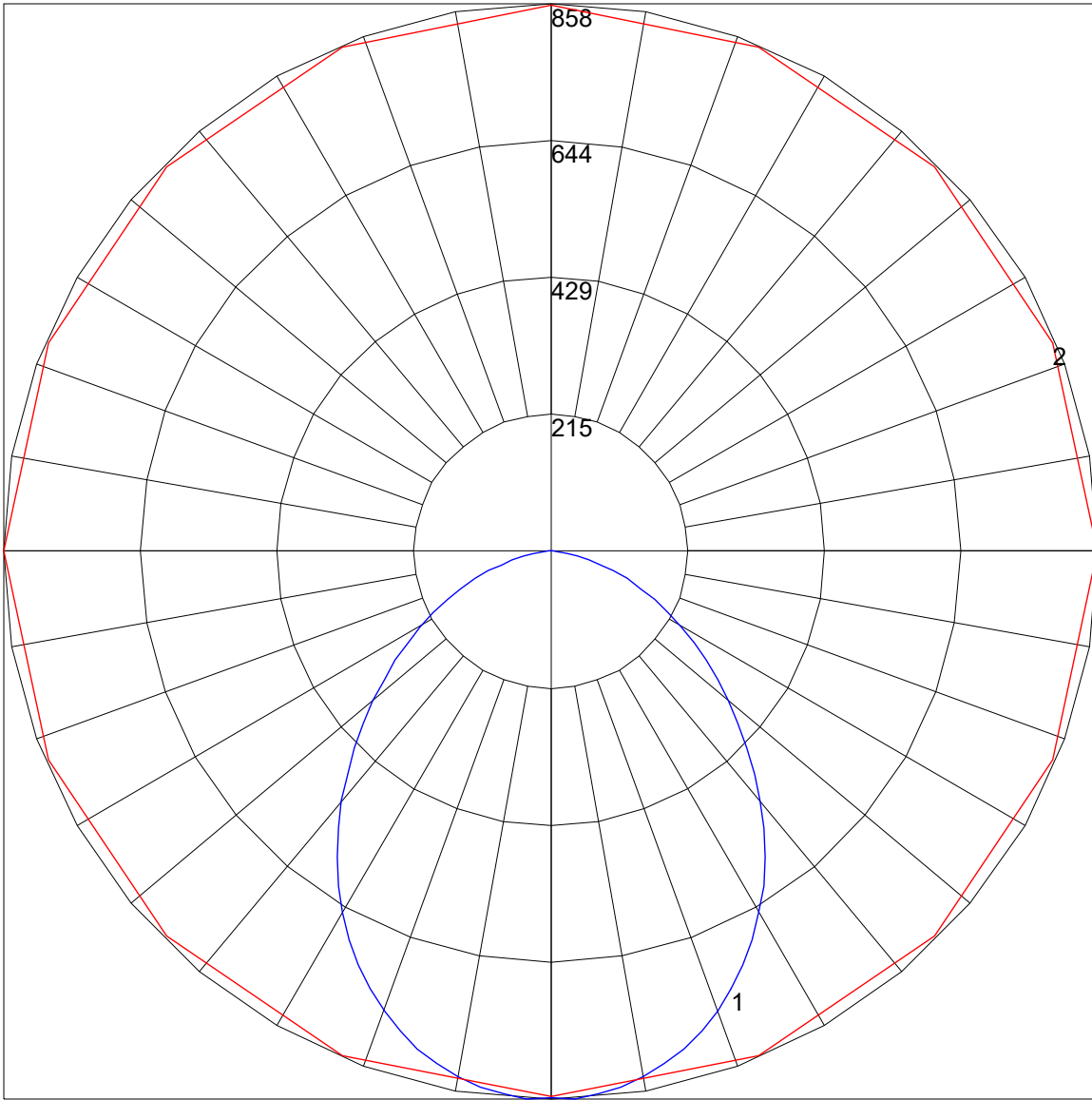
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 858.394 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.)