



**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 44L48XHFA30.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]N0654  
 [TESTLAB]NATL-LABS  
 [ISSUE DATE]02/14/16  
 [MANUFAC]LAMAR LIGHTING CO., INC.  
 [LUMCAT]44L48.X.HFA30  
 [LUMINAIRE]4' X4" SERIES LUMINAIRE WITH FROSTED ACRYLIC LENS  
 [LAMP]2-3000K LED MODULES  
 [LAMP]2) EVERLINE 3000K LED MODULES  
 [BALLASTCAT]D10CC55UNVTZ-C  
 [OTHER]INPUT WATTS: 51.22, AMPS: 0.4268, VAC: 120.00, TEMP: 25.4 C ,  
 [MORE]POWER FACTOR: 0.9996, THDI: 5.52%, HRS OPERATED PRIOR TO  
 [SEARCH\_SOURCE TYPE]LED  
 [SEARCH\_APPLICATION]INDOOR,ARCHITECTURAL,LINER,DIRECT  
 [SEARCH\_MOUNTING]RECESSED

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4961
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	51.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.75 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14849	14323	13563
55	13297	12522	11603
65	11567	10784	9830
75	9783	9224	8625
85	8300	8419	8063

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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>	2086.568	2086.568	2086.568	2086.568	2086.568
<b>2.5</b>	2069.112	2076.094	2084.240	2090.059	2101.696
<b>5.0</b>	2060.966	2066.785	2074.931	2080.749	2091.223
<b>7.5</b>	2045.837	2051.656	2057.475	2063.293	2073.767
<b>10.0</b>	2023.727	2029.545	2035.364	2040.019	2049.329
<b>12.5</b>	1994.633	2000.452	2005.107	2007.434	2015.580
<b>15.0</b>	1963.213	1966.704	1969.031	1970.195	1976.014
<b>17.5</b>	1922.482	1928.301	1925.973	1924.809	1929.464
<b>20.0</b>	1877.097	1879.424	1878.260	1873.605	1877.097
<b>22.5</b>	1824.729	1827.056	1823.565	1815.419	1817.746
<b>25.0</b>	1770.033	1768.870	1761.887	1752.577	1751.414
<b>27.5</b>	1707.192	1708.356	1696.718	1683.917	1680.426
<b>30.0</b>	1640.859	1640.859	1625.731	1609.439	1602.456
<b>32.5</b>	1576.854	1572.199	1552.416	1531.469	1520.995
<b>35.0</b>	1498.884	1498.884	1470.955	1448.844	1436.043
<b>37.5</b>	1424.406	1420.914	1389.494	1363.892	1348.763
<b>40.0</b>	1345.272	1339.453	1308.033	1275.448	1259.156
<b>42.5</b>	1264.975	1256.828	1226.571	1185.841	1168.385
<b>45.0</b>	1182.350	1174.204	1140.455	1098.561	1079.941
<b>47.5</b>	1099.725	1090.415	1056.667	1012.445	992.662
<b>50.0</b>	1015.936	1006.626	971.715	926.329	910.037
<b>52.5</b>	937.966	924.002	889.090	844.868	828.576
<b>55.0</b>	858.833	842.541	808.792	764.571	749.442
<b>57.5</b>	777.372	764.571	730.822	688.928	673.800
<b>60.0</b>	699.402	685.437	656.344	616.777	601.648
<b>62.5</b>	623.759	610.958	583.029	545.789	532.988
<b>65.0</b>	550.444	537.643	513.205	481.784	467.819
<b>67.5</b>	478.293	468.983	448.036	420.107	410.797
<b>70.0</b>	409.633	402.651	384.031	360.756	353.774
<b>72.5</b>	346.792	340.973	324.681	306.061	300.242
<b>75.0</b>	285.114	280.459	268.822	254.857	251.366
<b>77.5</b>	225.764	224.600	216.454	205.980	203.653
<b>80.0</b>	172.232	172.232	168.741	160.595	159.431
<b>82.5</b>	124.519	125.683	123.355	118.700	117.537
<b>85.0</b>	81.461	82.625	82.625	80.297	79.134
<b>87.5</b>	43.058	44.222	44.222	44.222	44.222
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	751.22	N.A.	15.10
0-30	1561.2	N.A.	31.50
0-40	2480.49	N.A.	50.00
0-60	4078.15	N.A.	82.20
0-80	4871.13	N.A.	98.20
0-90	4961.25	N.A.	100.00
10-90	4764.48	N.A.	96.00
20-40	1729.27	N.A.	34.90
20-50	2605.76	N.A.	52.50
40-70	2105.34	N.A.	42.40
60-80	792.98	N.A.	16.00
70-80	285.30	N.A.	5.80
80-90	90.12	N.A.	1.80
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4961.25	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	196.77
10-20	554.45
20-30	809.98
30-40	919.28
40-50	876.49
50-60	721.17
60-70	507.68
70-80	285.30
80-90	90.12
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

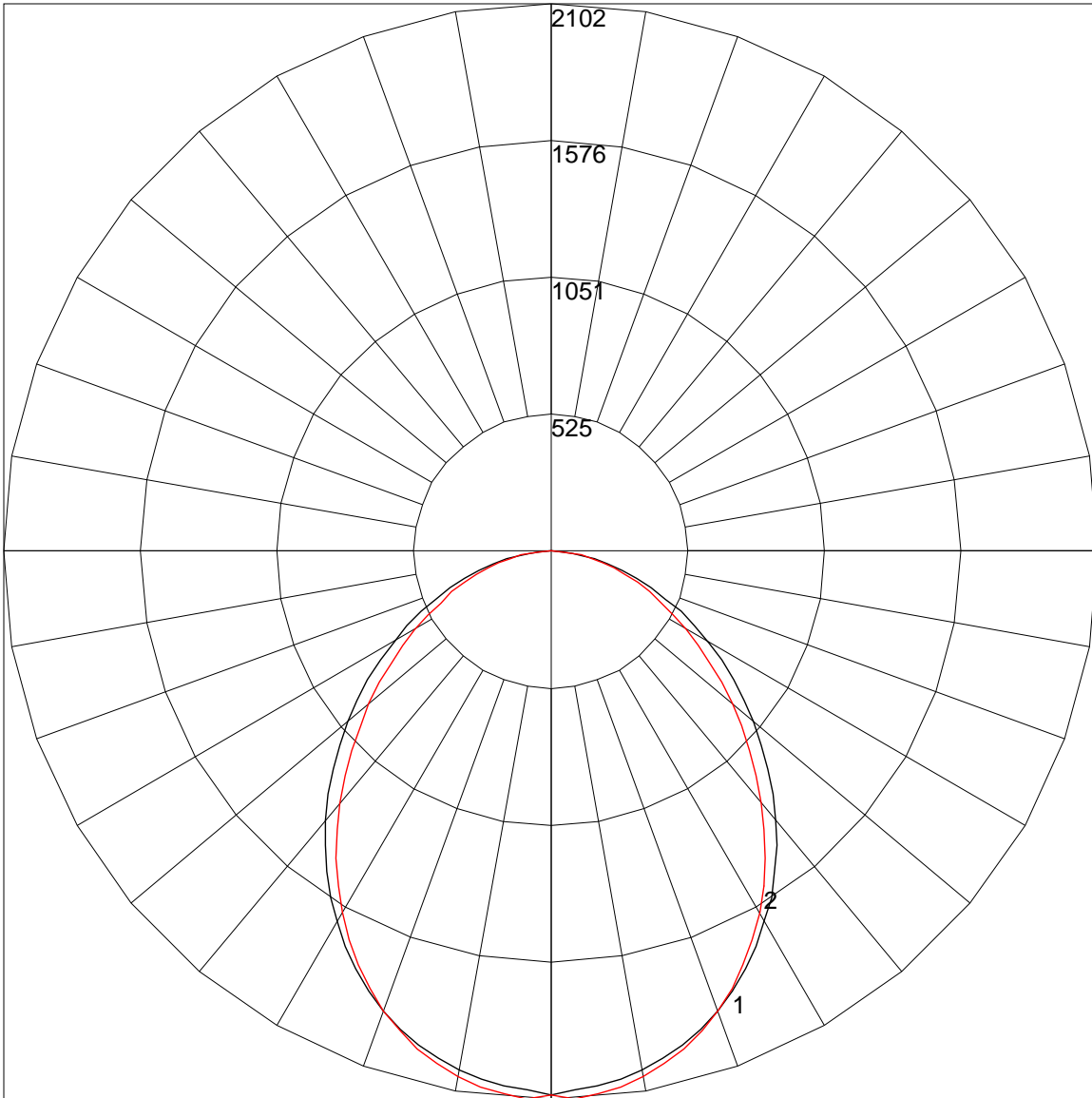
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	95	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 2101.696 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)