



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 44L48XMFA30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]N0654
 [TESTLAB]NATL-LABS
 [ISSUEDATE]02/14/16
 [MANUFAC]LAMAR LIGHTING CO., INC.
 [LUMCAT]44L48.X.MFA30
 [LUMINAIRE]4' X4" SERIES LUMINAIRE WITH FROSTED ACRYLIC LENS
 [LAMPCAT]2-3000K LED MODULES
 [LAMP](2) EVERLINE 3000K LED MODULES
 [BALLASTCAT]D700C30UNVTZ-C
 [OTHER]INPUT WATTS: 32.6 AMPS: 0.2717 VAC: 120.00, TEMP: 25.5 C ,
 [MORE]POWER FACTOR: 0.9996, THDI: 5.39%, HRS OPERATED PRIOR TO
 [SEARCH_SOURCETYPE]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	3444
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	32.6
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	10309	9943	9416
55	9231	8693	8055
65	8030	7486	6824
75	6791	6403	5987
85	5762	5844	5598

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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	1448.529	1448.529	1448.529	1448.529	1448.529
2.5	1436.411	1441.258	1446.913	1450.952	1459.031
5.0	1430.755	1434.795	1440.450	1444.489	1451.760
7.5	1420.253	1424.292	1428.332	1432.371	1439.642
10.0	1404.903	1408.943	1412.982	1416.214	1422.677
12.5	1384.706	1388.746	1391.977	1393.593	1399.248
15.0	1362.894	1365.317	1366.933	1367.741	1371.780
17.5	1334.618	1338.657	1337.041	1336.233	1339.465
20.0	1303.110	1304.726	1303.918	1300.687	1303.110
22.5	1266.756	1268.372	1265.948	1260.293	1261.909
25.0	1228.785	1227.978	1223.130	1216.667	1215.859
27.5	1185.160	1185.968	1177.889	1169.002	1166.579
30.0	1139.111	1139.111	1128.608	1117.298	1112.451
32.5	1094.677	1091.446	1077.712	1063.170	1055.899
35.0	1040.549	1040.549	1021.160	1005.811	996.924
37.5	988.845	986.421	964.609	946.835	936.333
40.0	933.909	929.870	908.057	885.436	874.126
42.5	878.166	872.510	851.506	823.230	811.112
45.0	820.806	815.151	791.722	762.639	749.713
47.5	763.447	756.984	733.555	702.856	689.122
50.0	705.279	698.816	674.580	643.072	631.762
52.5	651.151	641.457	617.220	586.521	575.211
55.0	596.215	584.905	561.477	530.777	520.275
57.5	539.664	530.777	507.349	478.265	467.763
60.0	485.536	475.841	455.644	428.176	417.674
62.5	433.024	424.137	404.748	378.896	370.009
65.0	382.127	373.241	356.275	334.462	324.768
67.5	332.039	325.576	311.034	291.645	285.182
70.0	284.374	279.526	266.600	250.443	245.596
72.5	240.748	236.709	225.399	212.472	208.433
75.0	197.931	194.699	186.620	176.926	174.502
77.5	156.729	155.921	150.266	142.995	141.379
80.0	119.566	119.566	117.143	111.487	110.680
82.5	86.443	87.251	85.635	82.404	81.596
85.0	56.552	57.359	57.359	55.744	54.936
87.5	29.892	30.699	30.699	30.699	30.699
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	521.51	N.A.	15.10
0-30	1083.81	N.A.	31.50
0-40	1721.99	N.A.	50.00
0-60	2831.12	N.A.	82.20
0-80	3381.62	N.A.	98.20
0-90	3444.18	N.A.	100.00
10-90	3307.57	N.A.	96.00
20-40	1200.49	N.A.	34.90
20-50	1808.96	N.A.	52.50
40-70	1461.56	N.A.	42.40
60-80	550.50	N.A.	16.00
70-80	198.06	N.A.	5.80
80-90	62.56	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	3444.18	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.60
10-20	384.91
20-30	562.30
30-40	638.18
40-50	608.47
50-60	500.65
60-70	352.44
70-80	198.06
80-90	62.56
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

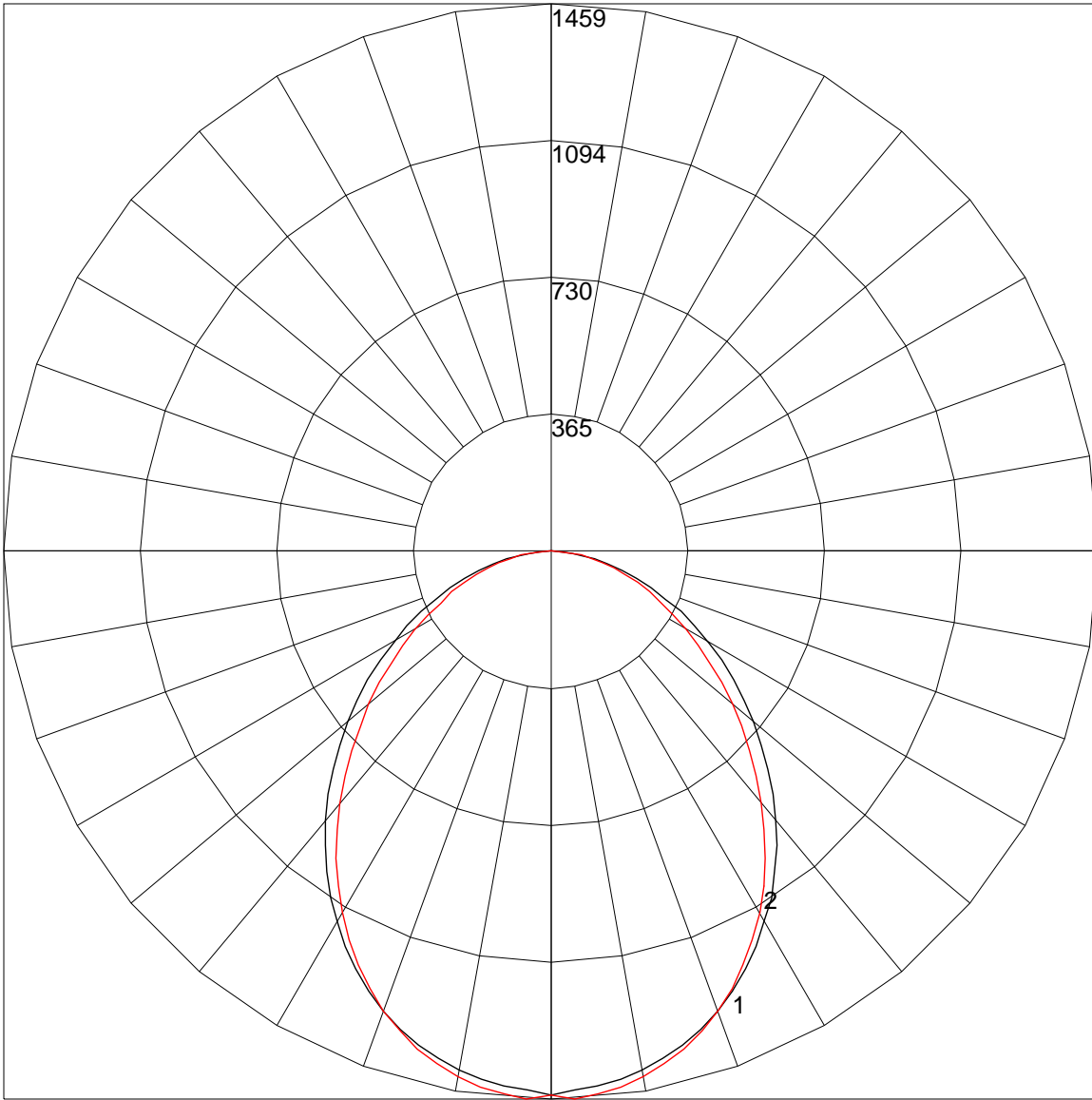
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 1459.031 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)