



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DLL48M50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 3,080P7  
[TESTLAB] TUV SUD America  
[ISSUEDATE] 5/28/2015 2:56:46 PM  
[MANUFAC] LAMAR LIGHTING CO., INC.  
[LUMCAT] DLL48M50  
[LUMINAIRE] 4' FIXTURE, OPEN, 5000K  
[MORE] MEDIUM OUTPUT  
[MORE] 1847-9  
[\_AMBIENT] 25.3 deg C  
[\_POWERFACTOR] 0.9930  
[\_ATHD] 7.15%  
[\_CURRENT] 0.14  
[\_VOLTAGE] 120.11  
[\_STABILIZATION] 30:00.0 Stable  
[\_POWER VARIATION] 0.06 %  
[\_LIGHT VARIATION] 0.34 %  
[\_Lumens] 3869

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3869
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	32.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.42 ft
Luminous Width (90-270)	3.83 ft
Luminous Height	0.17 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6205	6611	8497
55	5296	5815	8046
65	4123	4643	7203
75	2400	2764	5449
85	19	13	1680

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1356.845	1356.845	1356.845	1356.845	1356.845	1356.845	1356.845	1356.845	1356.845	1356.845
2.5	1366.558	1351.799	1335.358	1350.804	1354.239	1362.554	1356.063	1361.275	1357.532	1353.220
5.0	1364.591	1346.658	1329.293	1345.189	1348.103	1359.782	1352.865	1358.977	1354.807	1352.012
7.5	1359.380	1337.585	1321.831	1335.808	1341.470	1354.547	1347.511	1354.191	1347.132	1347.677
10.0	1346.184	1326.308	1312.568	1325.503	1327.540	1345.687	1336.898	1342.252	1334.008	1337.514
12.5	1326.806	1308.896	1296.696	1312.900	1317.567	1331.283	1324.863	1325.574	1319.083	1323.868
15.0	1306.835	1291.460	1276.299	1297.999	1303.827	1319.865	1307.190	1309.559	1308.636	1310.768
17.5	1288.357	1270.637	1256.375	1283.240	1286.817	1301.908	1287.575	1292.053	1296.388	1292.124
20.0	1265.875	1249.766	1237.731	1261.777	1267.723	1280.681	1266.136	1272.485	1280.563	1271.490
22.5	1241.640	1224.560	1215.581	1240.266	1245.383	1256.968	1245.644	1250.500	1260.142	1247.894
25.0	1214.231	1196.653	1191.086	1215.250	1220.130	1228.279	1213.970	1223.660	1233.254	1222.428
27.5	1185.211	1168.841	1161.047	1183.529	1193.692	1198.809	1189.664	1193.786	1199.283	1194.379
30.0	1153.940	1136.859	1133.827	1155.338	1162.800	1168.794	1158.749	1163.890	1165.619	1163.155
32.5	1120.963	1105.281	1102.604	1121.153	1130.842	1137.286	1127.573	1132.145	1130.795	1132.050
35.0	1083.794	1066.121	1068.182	1088.745	1094.857	1100.993	1090.972	1094.715	1091.967	1097.652
37.5	1041.815	1027.459	1033.689	1050.651	1057.687	1060.388	1053.068	1056.787	1055.295	1055.579
40.0	998.012	985.078	994.435	1011.065	1016.822	1019.547	1013.363	1015.709	1014.193	1018.007
42.5	955.062	943.288	950.324	969.347	974.204	975.246	969.940	971.527	973.541	975.625
45.0	909.435	897.733	909.198	925.142	928.790	929.359	924.621	926.421	927.203	931.443
47.5	862.908	851.276	864.093	875.132	882.974	881.315	877.999	878.804	880.676	883.471
50.0	811.643	803.968	816.026	824.057	831.187	830.595	827.894	827.918	830.856	836.447
52.5	760.378	754.787	765.566	771.607	778.240	777.861	777.150	775.445	776.961	786.295
55.0	706.578	705.014	714.917	718.518	726.098	723.279	723.090	722.166	720.934	729.652
57.5	653.607	651.072	661.259	665.807	670.617	667.679	668.982	667.110	664.978	674.478
60.0	595.969	593.269	604.142	606.511	612.315	610.444	610.515	608.501	609.378	616.651
62.5	541.293	537.479	545.296	547.736	552.830	549.892	552.782	550.745	550.058	555.199
65.0	479.107	477.377	485.692	488.440	492.942	489.364	492.231	488.867	488.701	493.084
67.5	419.171	412.680	424.856	427.676	431.182	428.907	428.457	421.208	425.188	429.192
70.0	356.298	348.717	355.255	365.205	367.432	366.082	359.804	356.369	360.041	362.386
72.5	289.515	286.009	290.582	302.379	304.085	304.322	291.482	290.297	292.358	295.556
75.0	229.082	229.035	229.746	242.443	242.751	243.154	227.282	230.575	232.091	234.957
77.5	63.347	119.161	173.600	182.105	183.171	183.716	169.076	138.421	42.168	139.795
80.0	2.985	3.364	99.640	124.917	126.765	127.973	111.082	3.672	3.317	4.501
82.5	2.014	1.729	2.866	73.463	75.571	75.903	3.838	1.872	3.009	2.251
85.0	1.350	1.469	0.782	4.477	32.432	12.887	1.492	1.113	2.369	1.587
87.5	0.379	0.000	0.000	0.000	3.648	0.000	0.474	0.000	0.071	0.166
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1356.845	1356.845	1356.845	1356.845	1356.845	1356.845	1356.845
2.5	1339.527	1354.618	1356.892	1363.478	1357.508	1358.929	1366.558
5.0	1339.172	1352.201	1353.007	1361.843	1353.718	1355.850	1364.591
7.5	1338.059	1347.298	1346.990	1356.797	1349.572	1350.164	1359.380
10.0	1330.359	1340.262	1340.996	1349.430	1338.911	1340.214	1346.184
12.5	1320.338	1332.870	1331.686	1338.959	1326.024	1326.071	1326.806
15.0	1305.698	1322.376	1316.690	1328.985	1308.825	1310.010	1306.835
17.5	1288.404	1306.077	1304.182	1312.758	1293.000	1291.247	1288.357
20.0	1267.984	1287.362	1285.206	1292.289	1271.419	1271.087	1265.875
22.5	1246.947	1268.149	1262.108	1268.599	1248.913	1247.800	1241.640
25.0	1223.565	1239.935	1239.413	1244.436	1222.191	1220.367	1214.231
27.5	1196.463	1213.591	1215.273	1215.889	1194.402	1193.218	1185.211
30.0	1167.301	1183.481	1183.789	1184.950	1163.842	1162.255	1153.940

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	1134.561	1147.875	1150.600	1150.836	1133.330	1127.881	1120.963
<b>35.0</b>	1101.490	1115.159	1116.604	1115.562	1098.079	1091.919	1083.794
<b>37.5</b>	1063.136	1079.198	1079.577	1077.421	1059.583	1052.641	1041.815
<b>40.0</b>	1025.635	1037.575	1041.199	1038.451	1022.958	1011.966	998.012
<b>42.5</b>	983.798	997.325	1000.215	996.638	981.477	969.537	955.062
<b>45.0</b>	940.706	952.409	956.484	948.500	934.049	924.455	909.435
<b>47.5</b>	893.445	905.716	909.222	902.115	890.341	878.733	862.908
<b>50.0</b>	845.638	857.649	861.392	853.243	838.744	828.558	811.643
<b>52.5</b>	794.965	804.394	810.885	801.693	790.985	777.198	760.378
<b>55.0</b>	741.213	750.997	757.606	747.917	737.636	723.872	706.578
<b>57.5</b>	682.769	692.411	702.101	693.217	682.888	668.342	653.607
<b>60.0</b>	620.962	629.183	641.596	635.887	626.198	612.813	595.969
<b>62.5</b>	562.164	569.342	578.226	575.501	569.437	554.796	541.293
<b>65.0</b>	500.901	511.965	515.068	511.183	506.469	495.784	479.107
<b>67.5</b>	442.032	451.982	455.938	449.233	436.583	422.938	419.171
<b>70.0</b>	376.008	391.098	396.192	388.516	370.275	354.876	356.298
<b>72.5</b>	307.496	329.575	335.285	325.880	302.663	292.121	289.515
<b>75.0</b>	244.362	269.000	274.970	268.858	238.179	234.057	229.082
<b>77.5</b>	185.824	212.831	217.474	206.506	181.513	125.818	63.347
<b>80.0</b>	125.983	156.994	158.557	147.660	120.416	3.980	2.985
<b>82.5</b>	6.041	100.280	103.241	92.652	2.535	1.943	2.014
<b>85.0</b>	3.388	35.961	55.814	44.063	0.284	1.350	1.350
<b>87.5</b>	1.137	2.156	18.502	0.545	0.047	0.000	0.379
<b>90.0</b>	0.000	0.000	0.805	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	497.86	N.A.	12.90
0-30	1061.13	N.A.	27.40
0-40	1745.86	N.A.	45.10
0-60	3112.29	N.A.	80.40
0-80	3844.48	N.A.	99.40
0-90	3868.89	N.A.	100.00
10-90	3740.34	N.A.	96.70
20-40	1248.01	N.A.	32.30
20-50	1964.44	N.A.	50.80
40-70	1854.53	N.A.	47.90
60-80	732.18	N.A.	18.90
70-80	244.08	N.A.	6.30
80-90	24.42	N.A.	0.60
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	3868.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	128.55
10-20	369.31
20-30	563.27
30-40	684.73
40-50	716.43
50-60	650.00
60-70	488.10
70-80	244.08
80-90	24.42
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

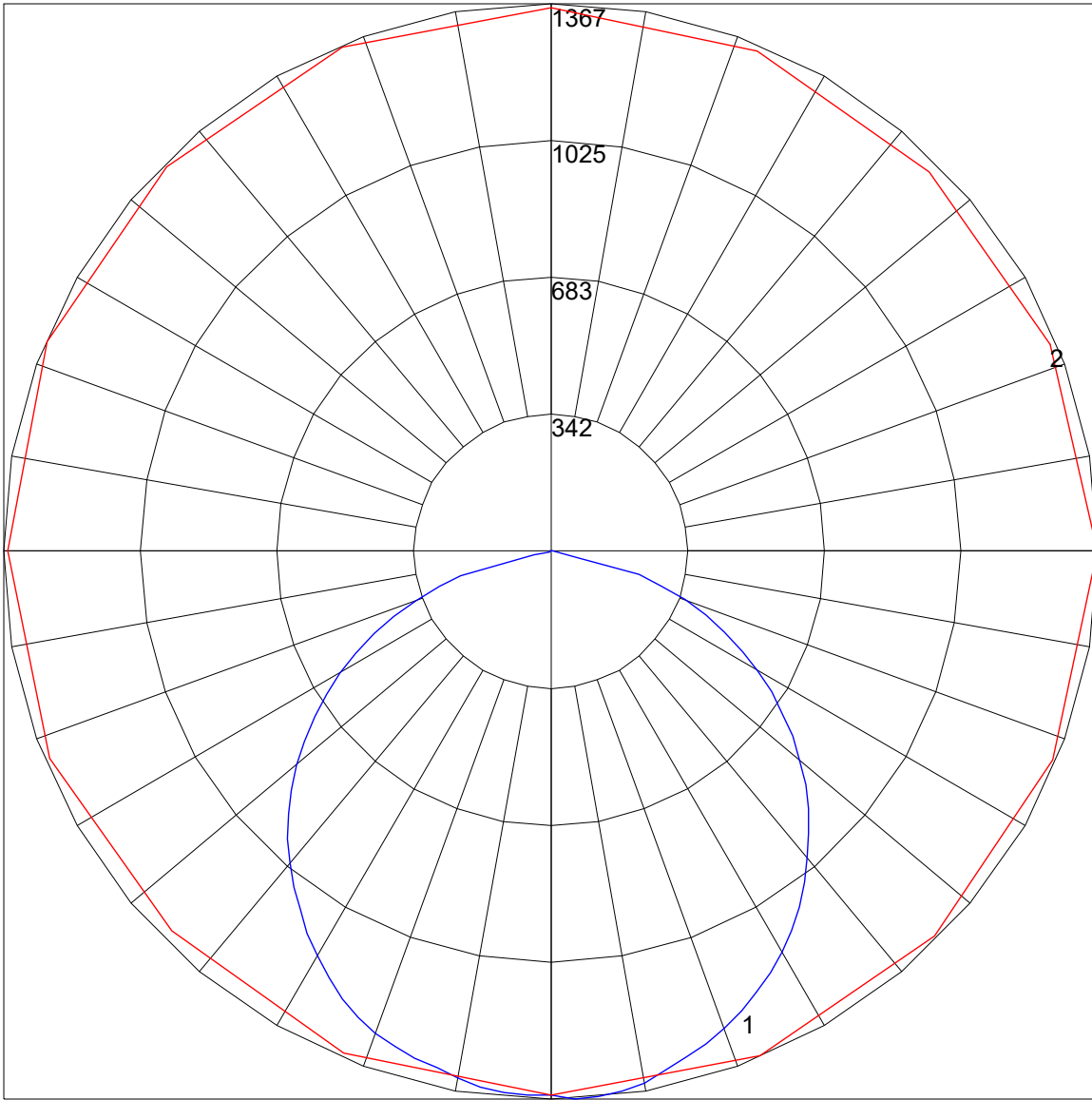
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1366.558 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.)