



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DLL96M50.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] DLL96M50  
[LUMINAIRE] 8' FIXTURE, OPEN, 5000K  
[MORE] MEDIUM OUTPUT  
[MORE] 1847-9  
[\_AMBIENT] 25.3 deg C  
[\_POWERFACTOR] 0.9930  
[\_ATHD] 7.15%  
[\_CURRENT] 0.28  
[\_VOLTAGE] 120.11  
[\_STABILIZATION] 30:00.0 Stable  
[\_POWER VARIATION] 0.06 %  
[\_LIGHT VARIATION] 0.34 %  
[\_Lumens] 7,976

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7976
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	62.01
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)	7.66 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	6396	6895	8945
55	5459	6086	8543
65	4250	4881	7755
75	2474	2927	6037
85	19	14	2075

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	2797.206	2797.206	2797.206	2797.206	2797.206	2797.206	2797.206	2797.206	2797.206	2797.206
2.5	2817.232	2786.805	2752.910	2784.753	2791.833	2808.976	2795.596	2806.340	2798.624	2789.735
5.0	2813.177	2776.205	2740.409	2773.179	2779.185	2803.263	2789.001	2801.601	2793.007	2787.244
7.5	2802.433	2757.502	2725.023	2753.838	2765.510	2792.469	2777.965	2791.738	2777.184	2778.306
10.0	2775.231	2734.253	2705.927	2732.594	2736.794	2774.205	2756.086	2767.122	2750.127	2757.355
12.5	2735.279	2698.359	2673.206	2706.612	2716.232	2744.509	2731.274	2732.742	2719.359	2729.225
15.0	2694.110	2662.415	2631.158	2675.893	2687.906	2720.971	2694.842	2699.726	2697.821	2702.217
17.5	2656.017	2619.484	2590.085	2645.466	2652.841	2683.950	2654.404	2663.634	2672.573	2663.782
20.0	2609.667	2576.457	2551.648	2601.220	2613.478	2640.192	2610.204	2623.295	2639.947	2621.243
22.5	2559.707	2524.495	2505.985	2556.875	2567.423	2591.305	2567.961	2577.971	2597.850	2572.599
25.0	2503.200	2466.964	2455.486	2505.301	2515.363	2532.162	2502.665	2522.639	2542.418	2520.099
27.5	2443.374	2409.627	2393.559	2439.906	2460.858	2471.408	2452.555	2461.054	2472.385	2462.274
30.0	2378.908	2343.695	2337.444	2381.789	2397.174	2409.529	2388.823	2399.420	2402.986	2397.906
32.5	2310.925	2278.593	2273.076	2311.315	2331.292	2344.574	2324.550	2333.977	2331.194	2333.780
35.0	2234.298	2197.865	2202.114	2244.505	2257.104	2269.753	2249.096	2256.812	2251.148	2262.869
37.5	2147.756	2118.161	2131.006	2165.973	2180.478	2186.046	2170.955	2178.622	2175.545	2176.131
40.0	2057.454	2030.790	2050.080	2084.365	2096.233	2101.848	2089.101	2093.938	2090.812	2098.675
42.5	1968.910	1944.638	1959.145	1998.360	2008.373	2010.521	1999.582	2002.854	2007.006	2011.304
45.0	1874.849	1850.722	1874.360	1907.229	1914.749	1915.922	1906.154	1909.865	1911.477	1920.219
47.5	1778.930	1754.952	1781.371	1804.132	1820.297	1816.879	1810.041	1811.700	1815.558	1821.323
50.0	1673.245	1657.421	1682.279	1698.835	1713.535	1712.316	1706.747	1706.796	1712.853	1724.378
52.5	1567.558	1556.034	1578.254	1590.709	1604.383	1603.603	1602.138	1598.621	1601.745	1620.988
55.0	1456.647	1453.424	1473.838	1481.262	1496.890	1491.079	1490.689	1488.784	1486.244	1504.216
57.5	1347.445	1342.220	1363.221	1372.596	1382.511	1376.456	1379.141	1375.283	1370.888	1390.472
60.0	1228.621	1223.055	1245.472	1250.356	1262.320	1258.462	1258.609	1254.457	1256.265	1271.258
62.5	1115.903	1108.040	1124.157	1129.188	1139.687	1133.632	1139.591	1135.390	1133.974	1144.571
65.0	987.704	984.138	1001.281	1006.945	1016.224	1008.850	1014.759	1007.824	1007.483	1016.519
67.5	864.144	850.761	875.865	881.676	888.904	884.214	883.286	868.343	876.547	884.801
70.0	734.526	718.898	732.376	752.888	757.480	754.697	741.754	734.674	742.242	747.077
72.5	596.852	589.624	599.048	623.372	626.886	627.374	600.906	598.464	602.712	609.304
75.0	472.265	472.167	473.632	499.811	500.444	501.276	468.555	475.343	478.467	484.377
77.5	130.594	245.656	357.886	375.418	377.617	378.739	348.557	285.362	86.932	288.194
80.0	6.153	6.936	205.412	257.524	261.333	263.824	229.002	7.571	6.837	9.279
82.5	4.150	3.566	5.910	151.447	155.794	156.479	7.912	3.858	6.202	4.638
85.0	2.783	3.028	1.612	9.230	66.859	26.569	3.078	2.295	4.884	3.271
87.5	0.780	0.000	0.000	0.000	7.522	0.000	0.977	0.000	0.147	0.341
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	2797.206	2797.206	2797.206	2797.206	2797.206	2797.206	2797.206
2.5	2761.507	2792.616	2797.304	2810.880	2798.575	2801.505	2817.232
5.0	2760.773	2787.634	2789.296	2807.511	2790.761	2795.156	2813.177
7.5	2758.479	2777.526	2776.890	2797.110	2782.213	2783.435	2802.433
10.0	2742.605	2763.021	2764.533	2781.921	2760.236	2762.923	2775.231
12.5	2721.948	2747.783	2745.341	2760.334	2733.669	2733.765	2735.279
15.0	2691.764	2726.147	2714.426	2739.773	2698.211	2700.653	2694.110
17.5	2656.112	2692.547	2688.640	2706.320	2665.588	2661.973	2656.017
20.0	2614.016	2653.965	2649.520	2664.123	2621.096	2620.411	2609.667
22.5	2570.646	2614.357	2601.902	2615.285	2574.700	2572.405	2559.707
25.0	2522.443	2556.190	2555.116	2565.470	2519.611	2515.851	2503.200
27.5	2466.571	2501.882	2505.350	2506.618	2462.323	2459.881	2443.374
30.0	2406.454	2439.808	2440.444	2442.837	2399.322	2396.050	2378.908

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	2338.959	2366.406	2372.021	2372.510	2336.419	2325.186	2310.925
<b>35.0</b>	2270.779	2298.960	2301.940	2299.790	2263.748	2251.050	2234.298
<b>37.5</b>	2191.710	2224.822	2225.605	2221.161	2184.385	2170.077	2147.756
<b>40.0</b>	2114.401	2139.014	2146.487	2140.823	2108.882	2086.220	2057.454
<b>42.5</b>	2028.152	2056.038	2061.997	2054.622	2023.366	1998.750	1968.910
<b>45.0</b>	1939.315	1963.442	1971.843	1955.383	1925.591	1905.813	1874.849
<b>47.5</b>	1841.884	1867.182	1874.409	1859.758	1835.486	1811.555	1778.930
<b>50.0</b>	1743.327	1768.089	1775.805	1759.004	1729.117	1708.117	1673.245
<b>52.5</b>	1638.862	1658.302	1671.682	1652.733	1630.658	1602.234	1567.558
<b>55.0</b>	1528.049	1548.219	1561.845	1541.870	1520.674	1492.299	1456.647
<b>57.5</b>	1407.565	1427.442	1447.416	1429.103	1407.808	1377.823	1347.445
<b>60.0</b>	1280.147	1297.093	1322.685	1310.915	1290.940	1263.346	1228.621
<b>62.5</b>	1158.930	1173.729	1192.042	1186.427	1173.923	1143.741	1115.903
<b>65.0</b>	1032.636	1055.442	1061.840	1053.830	1044.111	1022.085	987.704
<b>67.5</b>	911.271	931.783	939.939	926.119	900.039	871.909	864.144
<b>70.0</b>	775.160	806.269	816.771	800.946	763.341	731.596	734.526
<b>72.5</b>	633.920	679.437	691.208	671.817	623.956	602.224	596.852
<b>75.0</b>	503.765	554.556	566.864	554.264	491.020	482.521	472.265
<b>77.5</b>	383.088	438.763	448.335	425.722	374.199	259.380	130.594
<b>80.0</b>	259.721	323.650	326.875	304.409	248.245	8.204	6.153
<b>82.5</b>	12.455	206.733	212.836	191.006	5.225	4.005	4.150
<b>85.0</b>	6.985	74.136	115.062	90.839	0.587	2.783	2.783
<b>87.5</b>	2.344	4.445	38.143	1.124	0.098	0.000	0.780
<b>90.0</b>	0.000	0.000	1.661	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1026.36	N.A.	12.90
0-30	2187.58	N.A.	27.40
0-40	3599.19	N.A.	45.10
0-60	6416.16	N.A.	80.40
0-80	7925.59	N.A.	99.40
0-90	7975.93	N.A.	100.00
10-90	7710.91	N.A.	96.70
20-40	2572.83	N.A.	32.30
20-50	4049.8	N.A.	50.80
40-70	3823.21	N.A.	47.90
60-80	1509.43	N.A.	18.90
70-80	503.19	N.A.	6.30
80-90	50.34	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	7975.93	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	265.01
10-20	761.35
20-30	1161.22
30-40	1411.61
40-50	1476.97
50-60	1340.00
60-70	1006.24
70-80	503.19
80-90	50.34
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

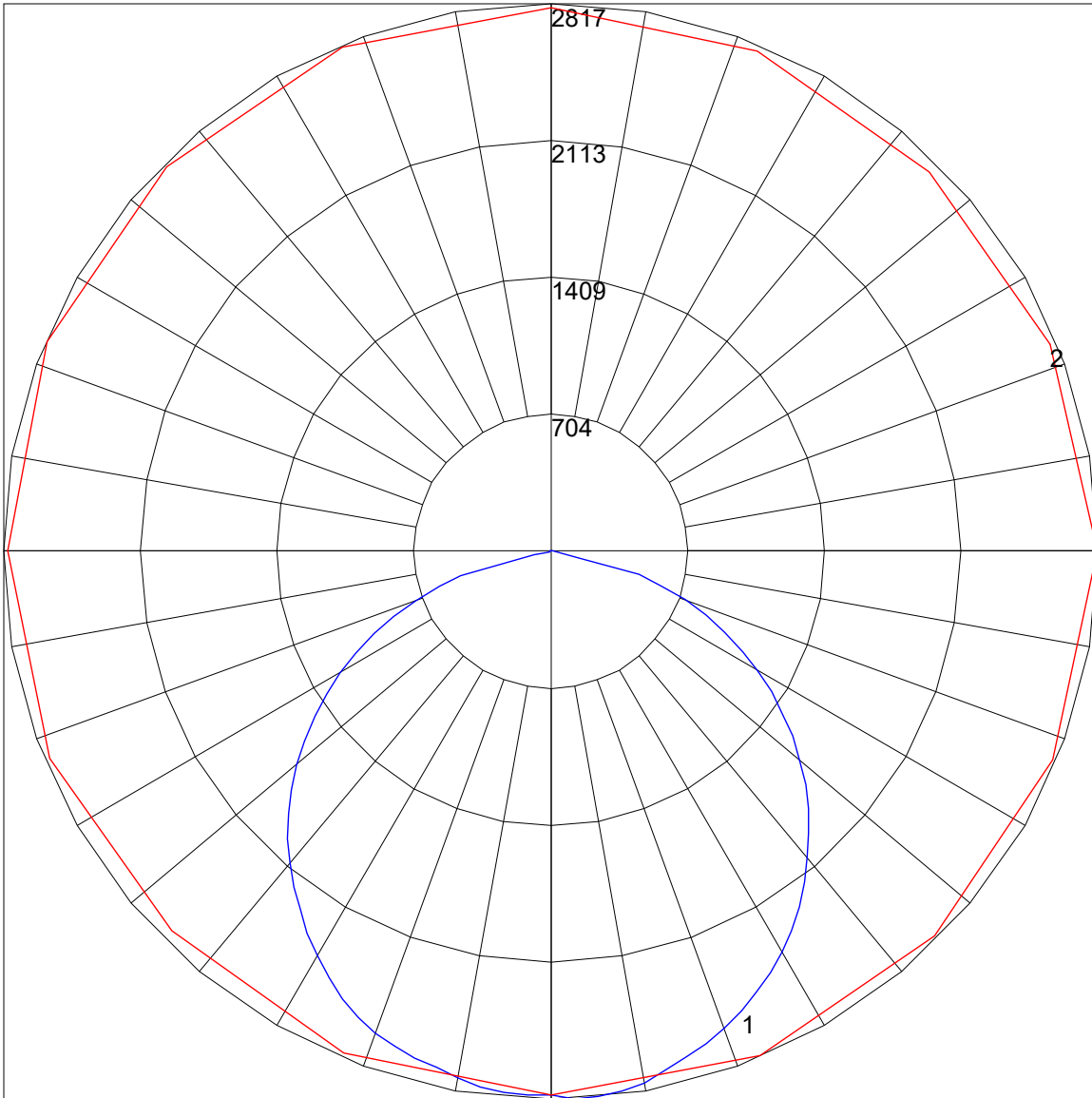
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2817.232 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.)