



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : DLL24M50.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 3,078P3  
[TESTLAB] TUV SUD America  
[ISSUEDATE] 5/28/2015 1:06:03 PM  
[MANUFAC] LAMAR LIGHTING  
[LUMCAT] DLL24M50  
[LUMINAIRE] 2' FIXTURE, OPEN, 5000K  
[MORE] MEDIUM OUTPUT  
[MORE] 1847-1  
[\_AMBIENT] 25.2 deg C  
[\_POWERFACTOR] 0.9932  
[\_ATHD] 7.22%  
[\_CURRENT] 0.14  
[\_VOLTAGE] 120.10  
[\_STABILIZATION] 36:00.0 Stable  
[\_POWER VARIATION] 0.00 %  
[\_LIGHT VARIATION] 0.47 %  
[\_Lumens] 1,919

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1919
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	17.18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
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)	1.92 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	6562	6651	8035
55	5739	5729	7356
65	4653	4603	6350
75	2986	2899	4798
85	27	42	1389

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	675.171	675.171	675.171	675.171	675.171	675.171	675.171	675.171	675.171	675.171
<b>2.5</b>	677.477	671.882	674.491	672.928	674.554	678.094	669.614	671.618	678.850	670.874
<b>5.0</b>	673.155	671.278	673.142	671.114	672.059	674.579	667.397	670.207	673.987	669.703
<b>7.5</b>	669.703	669.463	670.635	667.384	668.102	671.202	664.423	665.078	665.507	665.393
<b>10.0</b>	667.346	666.376	667.435	662.999	662.369	667.346	658.325	657.972	648.698	658.690
<b>12.5</b>	661.235	660.114	662.042	655.250	656.548	661.765	650.803	650.110	640.168	652.441
<b>15.0</b>	654.129	652.882	653.209	648.585	650.084	652.050	641.138	641.844	637.661	642.764
<b>17.5</b>	647.149	644.049	641.768	640.609	639.160	642.235	632.306	631.121	633.326	632.054
<b>20.0</b>	638.039	634.712	631.550	632.785	628.652	630.819	620.008	621.218	624.922	621.835
<b>22.5</b>	628.110	624.809	621.142	620.046	615.749	619.227	608.656	608.794	613.154	610.218
<b>25.0</b>	615.838	612.713	608.089	607.307	603.779	604.649	595.526	594.002	596.131	596.988
<b>27.5</b>	603.527	598.185	593.939	592.880	589.088	589.113	579.260	580.217	576.715	581.213
<b>30.0</b>	588.974	583.670	579.877	576.085	574.472	572.834	564.064	564.606	558.760	562.867
<b>32.5</b>	574.661	569.356	564.997	560.398	557.386	554.765	546.097	547.470	540.464	546.575
<b>35.0</b>	559.679	553.140	547.672	542.216	539.948	538.184	529.326	529.414	523.858	529.011
<b>37.5</b>	542.632	534.026	529.402	522.812	520.279	519.032	509.998	509.431	506.482	509.506
<b>40.0</b>	522.182	516.058	509.405	504.416	500.409	497.385	488.011	488.212	487.696	488.414
<b>42.5</b>	501.808	494.185	490.909	482.416	478.951	473.571	466.830	467.258	466.452	466.200
<b>45.0</b>	481.181	473.281	468.254	459.900	457.607	451.357	444.994	443.596	443.356	444.314
<b>47.5</b>	458.224	452.025	443.671	437.044	432.898	428.287	421.697	419.328	417.803	420.626
<b>50.0</b>	434.120	428.312	419.429	410.999	408.505	402.872	395.867	395.426	391.532	396.182
<b>52.5</b>	408.845	402.998	391.747	381.994	380.117	377.622	370.541	368.827	365.463	369.747
<b>55.0</b>	383.015	376.110	363.019	354.438	351.439	349.348	343.804	341.233	336.584	341.624
<b>57.5</b>	357.147	346.601	334.328	326.554	322.346	319.775	316.726	313.022	308.322	313.702
<b>60.0</b>	329.969	317.281	307.301	299.313	293.454	285.503	287.393	286.297	278.851	285.377
<b>62.5</b>	301.115	285.466	278.725	270.963	264.701	256.108	252.517	255.049	249.719	255.226
<b>65.0</b>	270.446	254.860	250.362	243.067	235.847	227.707	220.802	221.042	219.442	224.381
<b>67.5</b>	239.123	225.653	222.251	214.805	207.686	198.412	190.008	184.401	186.291	189.630
<b>70.0</b>	205.229	193.082	192.490	185.434	177.773	169.558	158.218	153.065	154.199	156.353
<b>72.5</b>	173.237	162.175	158.432	156.391	148.768	144.787	126.391	127.109	123.140	127.903
<b>75.0</b>	142.607	134.215	126.869	129.578	121.792	113.060	96.201	99.351	57.456	98.872
<b>77.5</b>	110.981	108.234	99.112	101.569	94.059	83.677	70.888	6.514	2.205	4.108
<b>80.0</b>	8.114	5.935	74.491	71.694	62.987	57.015	12.940	1.651	1.625	1.751
<b>82.5</b>	1.462	1.638	9.702	43.571	38.417	33.251	0.580	0.882	1.147	1.134
<b>85.0</b>	0.958	0.869	1.323	17.212	17.854	1.096	0.214	0.126	0.063	0.517
<b>87.5</b>	0.668	0.454	0.428	0.353	2.986	0.000	0.000	0.000	0.000	0.000
<b>90.0</b>	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>
<b>0.0</b>	675.171	675.171	675.171	675.171	675.171	675.171	675.171
<b>2.5</b>	673.949	673.243	674.944	678.724	671.530	670.698	677.477
<b>5.0</b>	673.218	671.567	673.382	677.565	671.126	669.312	673.155
<b>7.5</b>	669.602	668.871	670.496	675.310	670.043	668.153	669.703
<b>10.0</b>	663.944	665.960	666.956	671.832	667.220	665.998	667.346
<b>12.5</b>	655.931	660.341	662.357	667.876	662.987	660.857	661.235
<b>15.0</b>	647.287	653.360	654.595	662.546	655.578	654.746	654.129
<b>17.5</b>	637.220	644.188	644.818	654.633	645.271	647.275	647.149
<b>20.0</b>	627.757	632.507	636.338	645.473	634.990	636.250	638.039
<b>22.5</b>	614.212	621.634	626.963	634.675	624.708	625.829	628.110
<b>25.0</b>	601.574	608.530	616.266	623.234	612.675	614.376	615.838
<b>27.5</b>	588.029	594.783	602.217	609.727	600.163	601.360	603.527
<b>30.0</b>	571.007	578.957	586.984	591.507	586.908	586.580	588.974

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	556.025	562.703	569.583	576.967	571.498	571.133	574.661
<b>35.0</b>	539.078	546.235	554.299	558.533	554.841	554.161	559.679
<b>37.5</b>	519.044	526.756	534.353	539.822	536.924	536.584	542.632
<b>40.0</b>	497.574	505.701	514.345	522.295	517.532	517.684	522.182
<b>42.5</b>	475.864	485.176	495.634	500.132	497.599	494.764	501.808
<b>45.0</b>	453.449	461.929	472.538	477.943	475.020	473.999	481.181
<b>47.5</b>	430.340	440.294	450.311	455.389	452.113	451.886	458.224
<b>50.0</b>	405.985	415.170	426.422	430.126	428.488	427.190	434.120
<b>52.5</b>	379.953	389.340	400.151	405.745	404.032	403.906	408.845
<b>55.0</b>	352.384	362.351	374.006	378.139	379.121	377.042	383.015
<b>57.5</b>	325.244	333.774	346.273	351.124	351.515	348.818	357.147
<b>60.0</b>	295.798	307.377	316.562	322.157	324.828	323.555	329.969
<b>62.5</b>	266.654	277.074	288.338	293.152	295.659	295.533	301.115
<b>65.0</b>	237.157	247.968	259.333	263.920	267.032	266.225	270.446
<b>67.5</b>	205.695	216.871	227.732	233.163	236.086	232.772	239.123
<b>70.0</b>	170.428	185.812	196.799	203.074	203.049	199.458	205.229
<b>72.5</b>	137.012	155.030	164.921	171.650	168.626	165.715	173.237
<b>75.0</b>	107.692	124.639	133.333	139.860	135.715	136.571	142.607
<b>77.5</b>	80.527	95.306	103.055	109.885	104.731	109.910	110.981
<b>80.0</b>	23.474	65.155	74.050	79.972	77.641	25.351	8.114
<b>82.5</b>	2.117	40.106	47.162	53.021	26.662	1.386	1.462
<b>85.0</b>	0.907	10.496	24.394	28.237	1.991	1.184	0.958
<b>87.5</b>	0.025	0.202	6.514	1.625	0.706	0.643	0.668
<b>90.0</b>	0.000	0.000	0.000	0.050	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	247.40	N.A.	12.90
0-30	527.08	N.A.	27.50
0-40	866.99	N.A.	45.20
0-60	1544.49	N.A.	80.50
0-80	1906.74	N.A.	99.30
0-90	1919.41	N.A.	100.00
10-90	1855.52	N.A.	96.70
20-40	619.59	N.A.	32.30
20-50	975.35	N.A.	50.80
40-70	918.50	N.A.	47.90
60-80	362.25	N.A.	18.90
70-80	121.25	N.A.	6.30
80-90	12.67	N.A.	0.70
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	1919.41	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	63.89
10-20	183.51
20-30	279.68
30-40	339.91
40-50	355.76
50-60	321.74
60-70	241.00
70-80	121.25
80-90	12.67
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

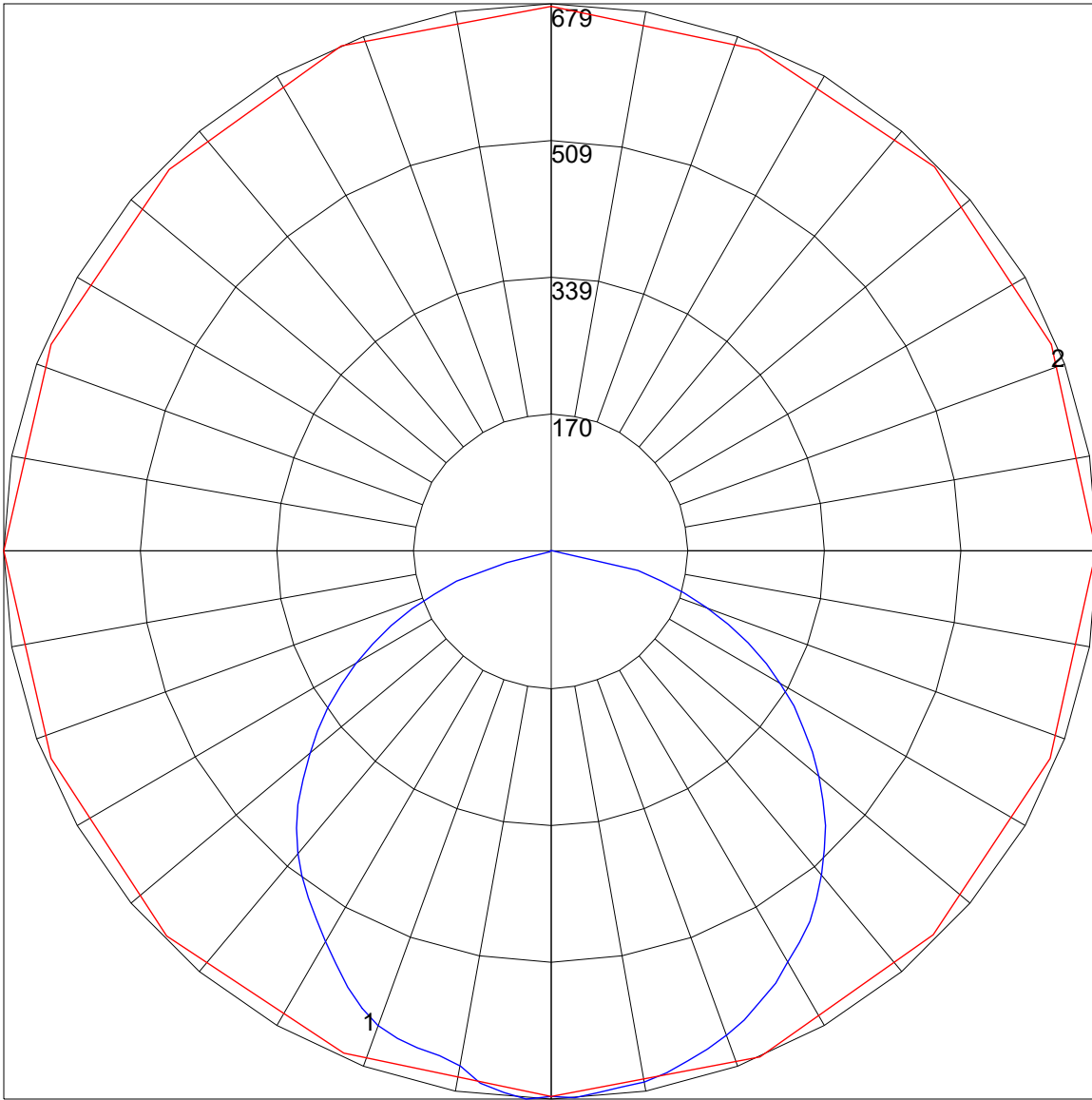
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	93	107	102	99	95	91	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	73	97	89	83	78	73	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	60	88	79	71	65	60	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	50	81	70	61	55	50	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	42	74	62	54	47	42	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	36	68	56	48	41	36	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	31	63	51	42	37	31	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	27	59	46	38	33	27	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	23	55	43	35	29	23	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	21	52	39	32	27	21	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 678.85 Located At Horizontal Angle = 180, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)