



# Photometric Toolbox™

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : LI-48LED2U1D54DMVWH40.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TESTLAB]INDEPENDENT LABORATORIES, INC.  
 [TESTDATE]06/09/15  
 [ISSUE DATE]07/16/15  
 [MANUFAC]Mobern Lighting Co  
 [LUMCAT]LI-48LED2U1D54DMVWH40  
 [OTHER]TOTAL INPUT WATTS = 64 AT 120.0 VOLTS  
 [\_ABSOLUTE LUMENS]5431

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5431
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	56.7
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.32 ft
Luminous Width (90-270)	0.36 ft
Luminous Height	0.03 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4195	4017	3973
55	3915	3679	3621
65	3569	3296	3223
75	3095	2760	2778
85	2291	2092	2403

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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>	557.406	557.406	557.406	557.406	557.406
<b>2.5</b>	557.406	557.406	557.406	557.406	556.368
<b>5.0</b>	555.330	555.330	554.292	556.368	554.292
<b>7.5</b>	551.178	550.140	552.216	552.216	551.178
<b>10.0</b>	545.988	544.950	545.988	547.026	544.950
<b>12.5</b>	538.722	536.646	538.722	540.798	539.760
<b>15.0</b>	529.380	528.342	530.418	531.456	530.418
<b>17.5</b>	519.000	516.924	520.038	522.114	521.076
<b>20.0</b>	507.582	504.468	509.658	510.696	509.658
<b>22.5</b>	495.126	492.012	497.202	499.278	498.240
<b>25.0</b>	479.556	477.480	482.670	484.746	483.708
<b>27.5</b>	465.024	462.948	468.138	469.176	470.214
<b>30.0</b>	448.416	447.378	452.568	453.606	453.606
<b>32.5</b>	431.808	429.732	434.922	436.998	436.998
<b>35.0</b>	414.162	414.162	418.314	419.352	419.352
<b>37.5</b>	395.478	395.478	399.630	401.706	402.744
<b>40.0</b>	376.794	377.832	380.946	381.984	381.984
<b>42.5</b>	357.072	358.110	361.224	363.300	363.300
<b>45.0</b>	337.350	338.388	341.502	343.578	343.578
<b>47.5</b>	317.628	318.666	321.780	323.856	323.856
<b>50.0</b>	297.906	297.906	302.058	303.096	303.096
<b>52.5</b>	277.146	278.184	281.298	282.336	283.374
<b>55.0</b>	256.386	257.424	260.538	262.614	262.614
<b>57.5</b>	235.626	237.702	239.778	241.854	241.854
<b>60.0</b>	214.866	215.904	220.056	221.094	222.132
<b>62.5</b>	194.106	196.182	199.296	200.334	201.372
<b>65.0</b>	173.346	175.422	179.574	180.612	181.650
<b>67.5</b>	153.624	155.700	159.852	160.890	160.890
<b>70.0</b>	132.864	135.978	139.092	141.168	142.206
<b>72.5</b>	113.142	116.256	120.408	122.484	124.560
<b>75.0</b>	93.420	97.572	100.686	104.838	106.914
<b>77.5</b>	75.774	78.888	83.040	86.154	89.268
<b>80.0</b>	58.128	61.242	65.394	70.584	73.698
<b>82.5</b>	41.520	43.596	49.824	57.090	59.166
<b>85.0</b>	24.912	28.026	36.330	43.596	46.710
<b>87.5</b>	9.342	15.570	25.950	32.178	35.292
<b>90.0</b>	0.000	6.228	14.532	21.798	23.874
<b>92.5</b>	21.798	125.598	52.938	31.140	32.178
<b>95.0</b>	47.748	275.070	422.466	325.932	301.020
<b>97.5</b>	74.736	323.856	537.684	638.370	673.662
<b>100.0</b>	103.800	357.072	605.154	720.372	752.550
<b>102.5</b>	133.902	381.984	648.750	788.880	832.476
<b>105.0</b>	167.118	400.668	675.738	833.514	879.186
<b>107.5</b>	201.372	418.314	688.194	855.312	906.174
<b>110.0</b>	236.664	434.922	694.422	863.616	916.554
<b>112.5</b>	270.918	452.568	696.498	862.578	915.516
<b>115.0</b>	305.172	473.328	699.612	858.426	910.326
<b>117.5</b>	339.426	496.164	701.688	851.160	900.984
<b>120.0</b>	371.604	519.000	704.802	844.932	892.680
<b>122.5</b>	403.782	542.874	709.992	840.780	884.376
<b>125.0</b>	434.922	564.672	717.258	837.666	878.148
<b>127.5</b>	465.024	583.356	725.562	834.552	872.958
<b>130.0</b>	495.126	599.964	738.018	835.590	869.844
<b>132.5</b>	523.152	612.420	749.436	836.628	867.768

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	551.178	624.876	761.892	839.742	866.730
<b>137.5</b>	579.204	636.294	775.386	842.856	866.730
<b>140.0</b>	605.154	647.712	787.842	848.046	867.768
<b>142.5</b>	630.066	661.206	795.108	853.236	870.882
<b>145.0</b>	654.978	675.738	797.184	858.426	872.958
<b>147.5</b>	676.776	690.270	796.146	862.578	876.072
<b>150.0</b>	698.574	705.840	791.994	859.464	876.072
<b>152.5</b>	716.220	720.372	785.766	852.198	869.844
<b>155.0</b>	733.866	734.904	779.538	840.780	857.388
<b>157.5</b>	749.436	747.360	776.424	825.210	842.856
<b>160.0</b>	762.930	759.816	777.462	807.564	825.210
<b>162.5</b>	775.386	771.234	781.614	798.222	807.564
<b>165.0</b>	785.766	780.576	786.804	794.070	798.222
<b>167.5</b>	795.108	788.880	793.032	796.146	796.146
<b>170.0</b>	802.374	796.146	798.222	798.222	798.222
<b>172.5</b>	807.564	802.374	803.412	801.336	800.298
<b>175.0</b>	811.716	806.526	806.526	804.450	803.412
<b>177.5</b>	810.678	809.640	809.640	807.564	806.526
<b>180.0</b>	809.640	809.640	809.640	809.640	809.640

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	202.09	N.A.	3.70
0-30	424.02	N.A.	7.80
0-40	684.76	N.A.	12.60
0-60	1180.44	N.A.	21.70
0-80	1463.91	N.A.	27.00
0-90	1504.72	N.A.	27.70
10-90	1452.02	N.A.	26.70
20-40	482.67	N.A.	8.90
20-50	745.81	N.A.	13.70
40-70	672.30	N.A.	12.40
60-80	283.47	N.A.	5.20
70-80	106.85	N.A.	2.00
80-90	40.81	N.A.	0.80
90-110	932.40	N.A.	17.20
90-120	1586.6	N.A.	29.20
90-130	2208.94	N.A.	40.70
90-150	3262.01	N.A.	60.10
90-180	3926.6	N.A.	72.30
110-180	2994.2	N.A.	55.10
0-180	5431.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	52.70
10-20	149.39
20-30	221.93
30-40	260.74
40-50	263.14
50-60	232.55
60-70	176.61
70-80	106.85
80-90	40.81
90-100	298.63
100-110	633.77
110-120	654.20
120-130	622.35
130-140	568.05
140-150	485.02
150-160	364.22
160-170	223.65
170-180	76.71

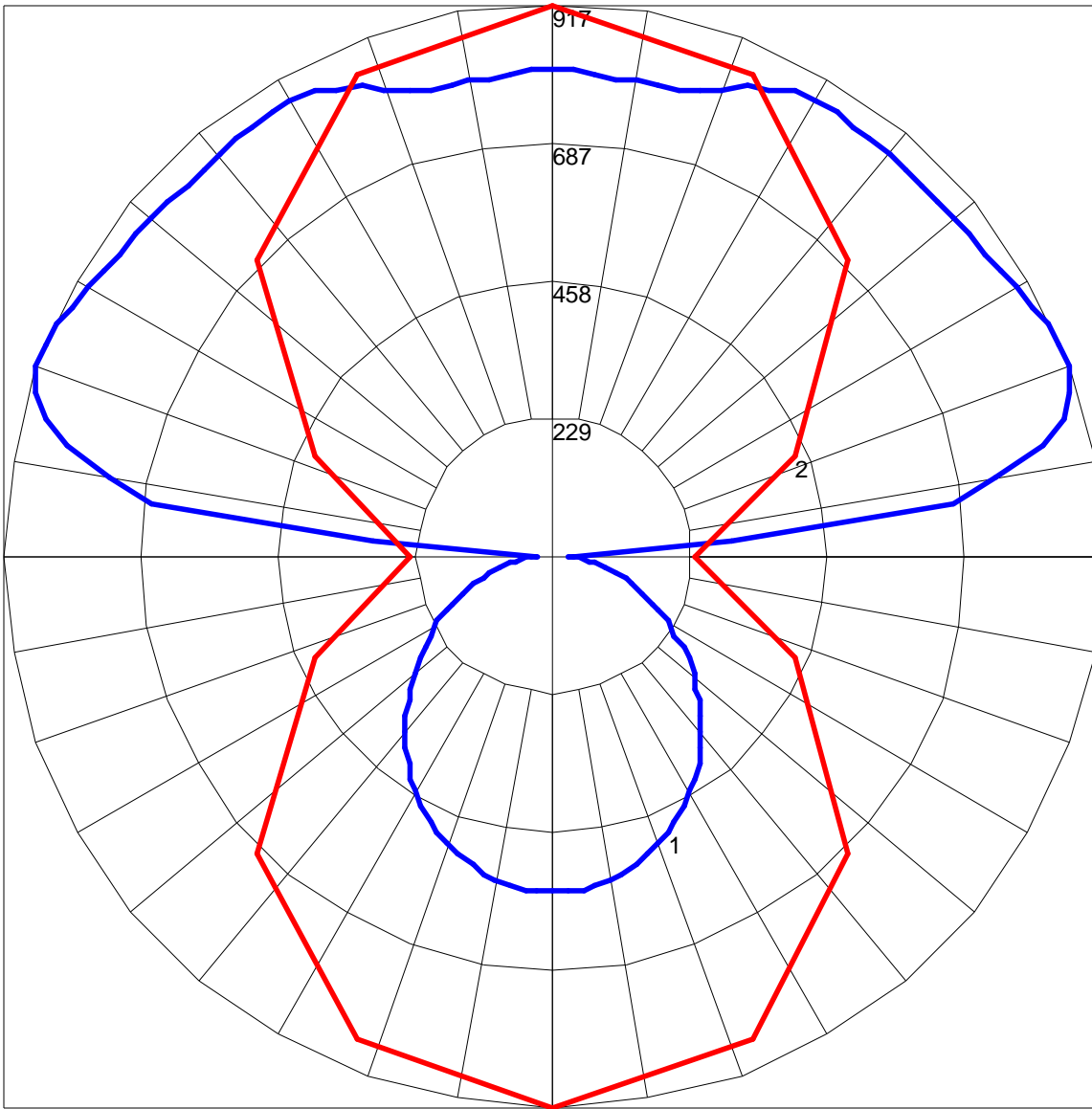
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	88	85	81	83	79	76	73	62	60	58	46	45	43	31	30	30	23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	23	21	16
4	70	60	52	46	62	54	47	42	42	38	34	32	28	26	22	20	18	14
5	64	53	45	39	57	48	41	36	38	33	29	28	25	22	19	17	16	12
6	59	47	40	34	53	43	36	31	34	29	25	25	22	19	18	15	14	11
7	54	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	13	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	14	11	10	8
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	13	10	9	7

POLAR GRAPH



Maximum Candela = 916.554 Located At Horizontal Angle = 90, Vertical Angle = 110  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (110) (Through Max. Cd.)