



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : R1L22LFA40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]1512035240-003  
 [TESTLAB]Intertek  
 [ISSUEDATE]01/11/2017  
 [LUMCAT]R1L22LFA40/S1L22LFA40  
 [LUMINAIRE]LED RECESSED/SURFACE 2X2  
 [LAMP]LED  
 [LAMPCAT]NA. LUMINAIRE OUTPUT = 2602 LMS  
 [OTHER]120.02 VAC,223.20 mA, 25.2 W, 0.9963 PF  
 [MANUFAC] LAMAR LIGHTING CO., INC.  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor  
 [\_SEARCH\_MOUNTING] Recessed

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2602
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	25.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.83 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2233	2588	2853
55	1829	2409	2813
65	1496	2337	2777
75	1179	2252	2219
85	742	1222	714

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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>	998.148	998.148	998.148	998.148	998.148
<b>2.5</b>	996.957	1001.321	999.139	995.569	994.280
<b>5.0</b>	995.172	999.635	997.156	992.296	991.106
<b>7.5</b>	989.618	993.684	993.189	987.833	986.345
<b>10.0</b>	974.642	980.989	983.271	980.692	978.708
<b>12.5</b>	959.467	965.220	971.468	971.270	968.989
<b>15.0</b>	942.111	948.657	954.905	959.765	957.186
<b>17.5</b>	922.572	929.713	938.044	945.483	944.392
<b>20.0</b>	899.265	907.993	918.903	929.217	929.317
<b>22.5</b>	871.991	882.305	897.182	908.985	910.671
<b>25.0</b>	842.038	853.246	871.594	885.677	889.942
<b>27.5</b>	809.011	821.310	843.526	861.477	867.825
<b>30.0</b>	773.108	787.291	813.574	834.996	842.832
<b>32.5</b>	735.321	750.991	782.233	808.019	817.045
<b>35.0</b>	694.954	712.212	748.214	777.770	788.183
<b>37.5</b>	652.109	671.449	712.410	745.536	756.942
<b>40.0</b>	607.775	629.595	674.920	711.617	724.708
<b>42.5</b>	562.152	586.947	636.240	676.904	691.979
<b>45.0</b>	515.835	545.093	597.857	642.091	659.150
<b>47.5</b>	470.113	503.735	559.574	607.478	626.123
<b>50.0</b>	425.780	463.171	522.282	572.864	592.501
<b>52.5</b>	383.132	423.598	486.081	538.845	559.276
<b>55.0</b>	342.766	385.513	451.368	505.917	527.241
<b>57.5</b>	305.078	349.114	418.540	473.684	495.503
<b>60.0</b>	270.166	314.401	386.207	441.946	460.592
<b>62.5</b>	236.941	280.679	354.469	407.035	422.011
<b>65.0</b>	206.592	247.553	322.732	369.346	383.430
<b>67.5</b>	177.135	215.221	290.399	332.451	344.055
<b>70.0</b>	149.464	184.872	256.777	295.457	301.110
<b>72.5</b>	123.380	156.010	223.849	254.397	249.339
<b>75.0</b>	99.676	128.736	190.426	205.501	187.649
<b>77.5</b>	77.955	102.453	154.622	149.266	127.248
<b>80.0</b>	57.524	77.162	115.446	95.510	78.253
<b>82.5</b>	38.085	52.665	73.393	53.260	43.838
<b>85.0</b>	21.125	28.861	34.812	23.803	20.332
<b>87.5</b>	6.943	7.240	7.141	5.653	5.058
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000
<b>132.5</b>	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	0.000	0.000	0.000	0.000	0.000
<b>137.5</b>	0.000	0.000	0.000	0.000	0.000
<b>140.0</b>	0.000	0.000	0.000	0.000	0.000
<b>142.5</b>	0.000	0.000	0.000	0.000	0.000
<b>145.0</b>	0.000	0.000	0.000	0.000	0.000
<b>147.5</b>	0.000	0.000	0.000	0.000	0.000
<b>150.0</b>	0.000	0.000	0.000	0.000	0.000
<b>152.5</b>	0.000	0.000	0.000	0.000	0.000
<b>155.0</b>	0.000	0.000	0.000	0.000	0.000
<b>157.5</b>	0.000	0.000	0.000	0.000	0.000
<b>160.0</b>	0.000	0.000	0.000	0.000	0.000
<b>162.5</b>	0.000	0.000	0.000	0.000	0.000
<b>165.0</b>	0.000	0.000	0.000	0.000	0.000
<b>167.5</b>	0.000	0.000	0.000	0.000	0.000
<b>170.0</b>	0.000	0.000	0.000	0.000	0.000
<b>172.5</b>	0.000	0.000	0.000	0.000	0.000
<b>175.0</b>	0.000	0.000	0.000	0.000	0.000
<b>177.5</b>	0.000	0.000	0.000	0.000	0.000
<b>180.0</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	363.46	N.A.	14.00
0-30	763.49	N.A.	29.30
0-40	1228.76	N.A.	47.20
0-60	2085.08	N.A.	80.10
0-80	2565.78	N.A.	98.60
0-90	2601.97	N.A.	100.00
10-90	2507.4	N.A.	96.40
20-40	865.30	N.A.	33.30
20-50	1323.19	N.A.	50.90
40-70	1161.93	N.A.	44.70
60-80	480.71	N.A.	18.50
70-80	175.09	N.A.	6.70
80-90	36.19	N.A.	1.40
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	2601.97	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	94.58
10-20	268.88
20-30	400.03
30-40	465.27
40-50	457.89
50-60	398.42
60-70	305.62
70-80	175.09
80-90	36.19
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

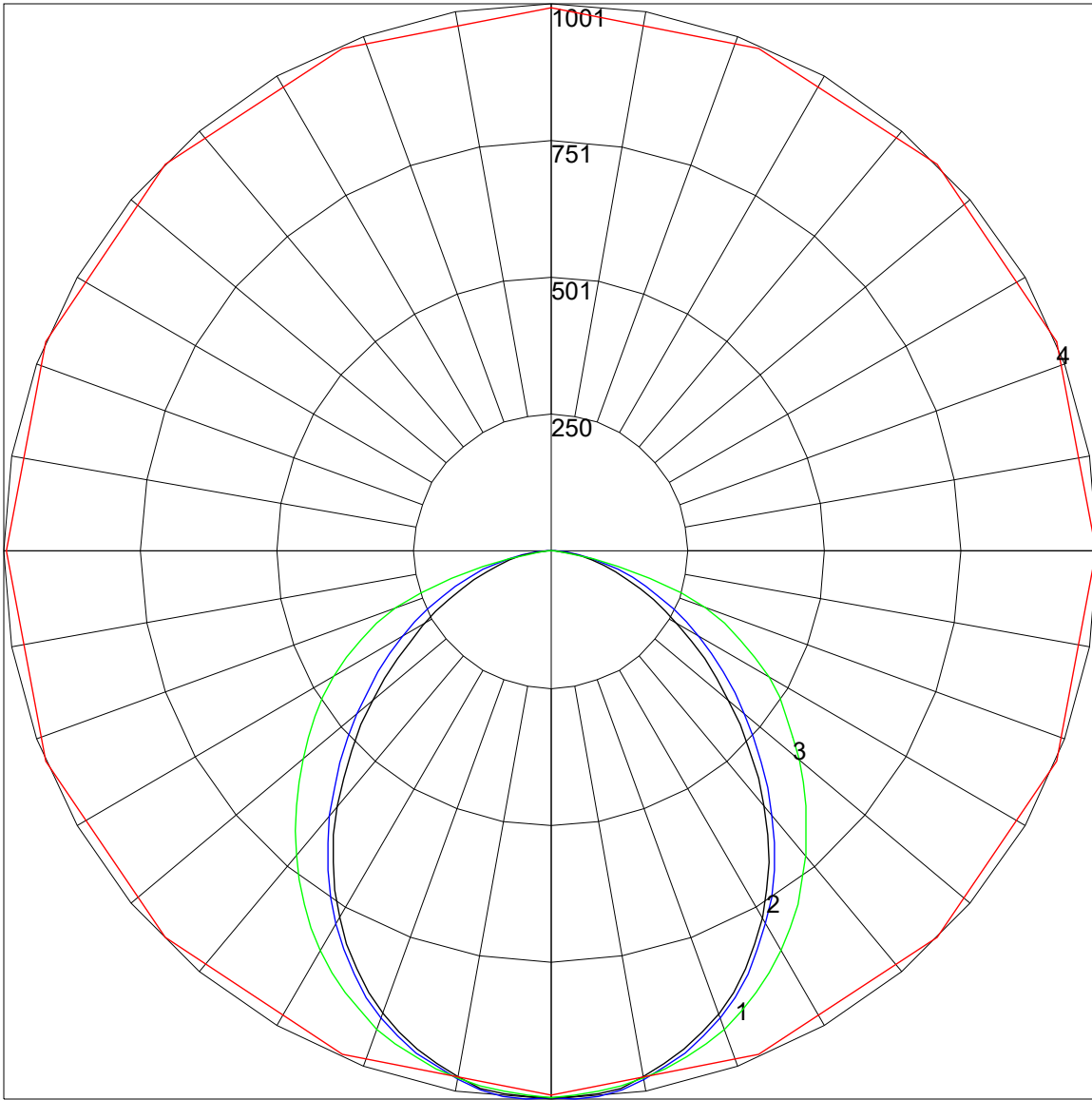
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
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	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1001.321 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 3 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 4 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)