



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : R2L22LFA40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]1411031240-004P1  
 [TESTLAB]Intertek  
 [ISSUEDATE]11/10/2014  
 [LUMCAT]1411031240-004 MOD: R2L22LFA40/S2L22LFA40  
 [LUMINAIRE]LED RECESSED/SURFACE 2X2  
 [LAMP]LED  
 [LAMPCAT]NA. LUMINAIRE OUTPUT = 2761 LMS  
 [OTHER]120.02 VAC,223.20 mA, 26.691 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	2761
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	26.7
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	2370	2746	3028
55	1941	2556	2986
65	1588	2481	2947
75	1251	2390	2355
85	787	1297	758

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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>	1059.337	1059.337	1059.337	1059.337	1059.337
<b>2.5</b>	1058.074	1062.705	1060.389	1056.600	1055.232
<b>5.0</b>	1056.179	1060.916	1058.284	1053.126	1051.863
<b>7.5</b>	1050.284	1054.600	1054.074	1048.390	1046.811
<b>10.0</b>	1034.390	1041.127	1043.548	1040.811	1038.706
<b>12.5</b>	1018.285	1024.390	1031.022	1030.811	1028.390
<b>15.0</b>	999.865	1006.812	1013.443	1018.601	1015.864
<b>17.5</b>	979.129	986.707	995.549	1003.444	1002.286
<b>20.0</b>	954.392	963.655	975.234	986.181	986.286
<b>22.5</b>	925.446	936.393	952.182	964.708	966.497
<b>25.0</b>	893.657	905.552	925.025	939.972	944.498
<b>27.5</b>	858.606	871.658	895.236	914.288	921.025
<b>30.0</b>	820.502	835.554	863.448	886.184	894.500
<b>32.5</b>	780.398	797.029	830.186	857.553	867.132
<b>35.0</b>	737.557	755.872	794.081	825.449	836.501
<b>37.5</b>	692.085	712.610	756.083	791.239	803.344
<b>40.0</b>	645.033	668.190	716.294	755.241	769.135
<b>42.5</b>	596.614	622.929	675.243	718.400	734.399
<b>45.0</b>	547.457	578.509	634.507	681.453	699.558
<b>47.5</b>	498.932	534.616	593.877	644.718	664.506
<b>50.0</b>	451.881	491.564	554.299	607.982	628.823
<b>52.5</b>	406.619	449.565	515.879	571.878	593.561
<b>55.0</b>	363.779	409.146	479.038	536.931	559.562
<b>57.5</b>	323.780	370.515	444.197	502.722	525.879
<b>60.0</b>	286.728	333.674	409.882	469.039	488.827
<b>62.5</b>	251.466	297.886	376.199	431.987	447.881
<b>65.0</b>	219.257	262.729	342.516	391.988	406.935
<b>67.5</b>	187.994	228.414	308.201	352.832	365.147
<b>70.0</b>	158.627	196.205	272.518	313.570	319.569
<b>72.5</b>	130.943	165.574	237.572	269.992	264.624
<b>75.0</b>	105.786	136.627	202.099	218.099	199.152
<b>77.5</b>	82.734	108.734	164.100	158.416	135.049
<b>80.0</b>	61.051	81.892	122.523	101.365	83.050
<b>82.5</b>	40.420	55.893	77.892	56.525	46.525
<b>85.0</b>	22.420	30.631	36.946	25.262	21.578
<b>87.5</b>	7.368	7.684	7.579	6.000	5.368
<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	385.74	N.A.	14.00
0-30	810.30	N.A.	29.30
0-40	1304.09	N.A.	47.20
0-60	2212.9	N.A.	80.10
0-80	2723.07	N.A.	98.60
0-90	2761.48	N.A.	100.00
10-90	2661.11	N.A.	96.40
20-40	918.35	N.A.	33.30
20-50	1404.31	N.A.	50.90
40-70	1233.16	N.A.	44.70
60-80	510.18	N.A.	18.50
70-80	185.83	N.A.	6.70
80-90	38.41	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	2761.48	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	100.37
10-20	285.37
20-30	424.56
30-40	493.79
40-50	485.96
50-60	422.85
60-70	324.35
70-80	185.83
80-90	38.41
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

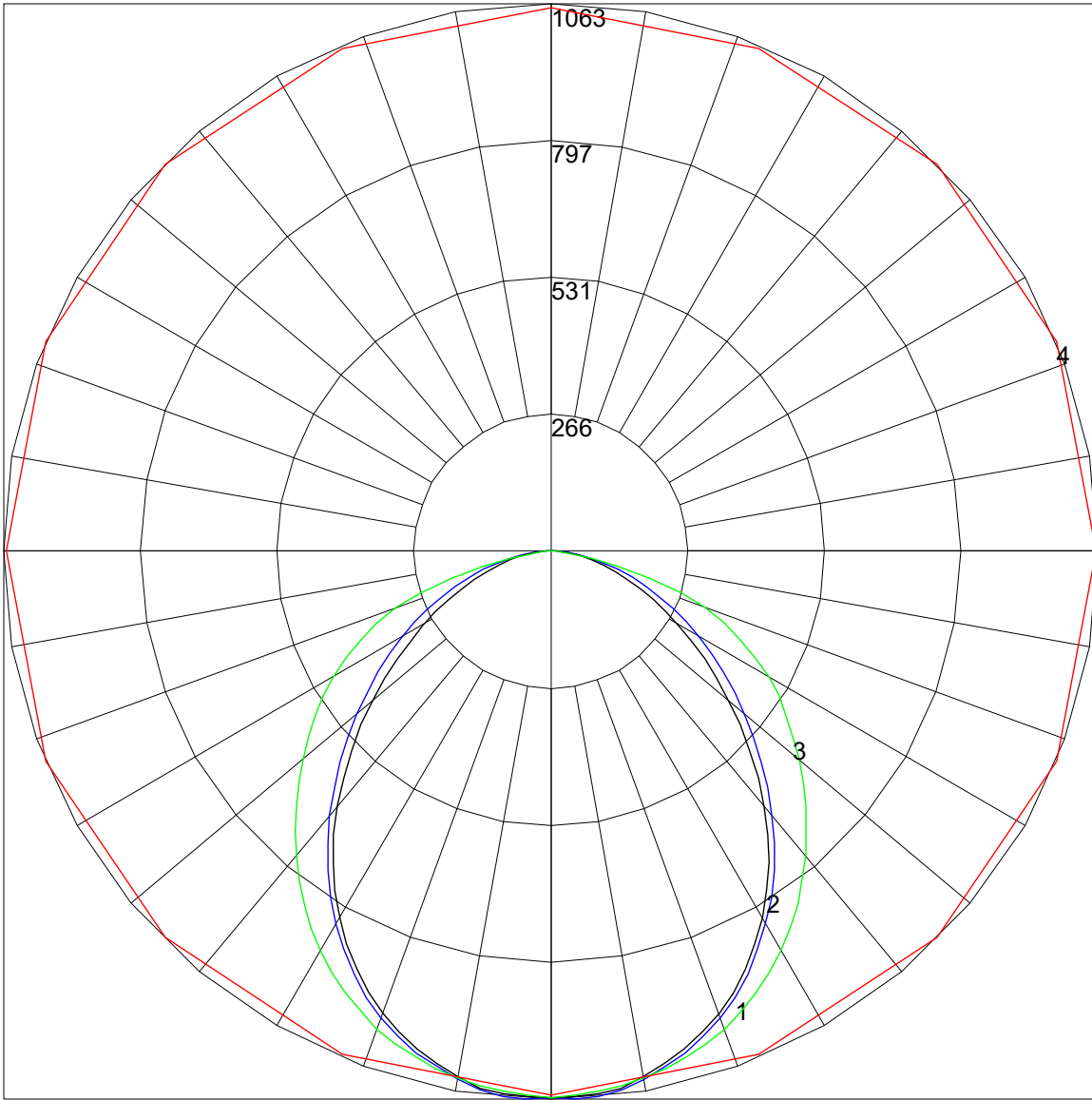
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	97	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	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	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	38	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 = 1062.705 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.)