



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : R1L14MFA40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]1411031240-003P2  
 [TESTLAB]Intertek  
 [ISSUE DATE]10/10/2017  
 [LUMCAT]1411031240-003 MOD: R1L14MFA40/S1L14MFA40  
 [LUMINAIRE]LED RECESSED/SURFACE 1X4  
 [LAMP]LED  
 [LAMP CAT]NA. LUMINAIRE OUTPUT = 3417LMS  
 [OTHER]120.00 VAC, 198.30 mA, 33.9 W, 0.9958 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	3417
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	33.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3198	3475	3672
55	2616	3215	3533
65	2111	3083	3238
75	1608	2828	2209
85	895	1521	833

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : R1L14MFA40.IES**

**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>	1367.326	1367.326	1367.326	1367.326	1367.326
<b>2.5</b>	1364.578	1364.144	1368.773	1359.949	1369.207
<b>5.0</b>	1359.515	1357.200	1361.685	1355.609	1365.012
<b>7.5</b>	1350.835	1347.508	1351.558	1345.193	1355.898
<b>10.0</b>	1338.828	1334.922	1339.118	1331.595	1342.589
<b>12.5</b>	1322.626	1318.721	1322.048	1315.393	1326.388
<b>15.0</b>	1301.795	1298.179	1301.072	1296.009	1306.714
<b>17.5</b>	1276.046	1272.429	1277.492	1273.442	1285.738
<b>20.0</b>	1247.548	1241.761	1249.862	1248.560	1259.844
<b>22.5</b>	1213.408	1210.660	1217.893	1217.893	1230.044
<b>25.0</b>	1173.627	1170.299	1181.872	1181.872	1194.024
<b>27.5</b>	1130.663	1127.914	1141.801	1142.669	1155.255
<b>30.0</b>	1084.227	1081.478	1098.259	1102.309	1116.197
<b>32.5</b>	1030.558	1030.702	1051.678	1058.043	1072.509
<b>35.0</b>	974.574	976.455	1001.626	1011.897	1026.218
<b>37.5</b>	917.578	919.893	947.957	963.580	978.336
<b>40.0</b>	854.507	864.054	894.722	914.540	928.862
<b>42.5</b>	790.278	801.272	841.632	867.381	880.690
<b>45.0</b>	725.470	740.948	788.108	821.235	832.952
<b>47.5</b>	660.662	681.349	735.741	775.233	786.516
<b>50.0</b>	598.458	624.353	684.820	729.954	741.093
<b>52.5</b>	539.148	570.105	637.083	685.833	696.972
<b>55.0</b>	481.284	518.027	591.515	642.290	649.957
<b>57.5</b>	427.760	467.830	547.538	595.565	597.156
<b>60.0</b>	377.707	419.659	504.863	541.462	542.620
<b>62.5</b>	330.548	374.091	463.201	487.215	490.687
<b>65.0</b>	286.137	330.693	417.923	435.861	438.898
<b>67.5</b>	244.475	289.320	369.172	385.519	383.060
<b>70.0</b>	204.694	249.538	323.026	333.007	320.277
<b>72.5</b>	167.516	212.072	279.194	275.143	252.287
<b>75.0</b>	133.521	176.196	234.783	212.506	183.429
<b>77.5</b>	102.709	139.163	187.624	151.025	124.842
<b>80.0</b>	73.343	105.023	137.282	99.671	80.576
<b>82.5</b>	47.159	72.475	87.085	59.600	47.882
<b>85.0</b>	25.026	40.794	42.530	29.511	23.290
<b>87.5</b>	7.378	11.283	9.692	7.378	5.786
<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

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : R1L14MFA40.IES**

**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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : R1L14MFA40.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	495.44	N.A.	14.50
0-30	1038.07	N.A.	30.40
0-40	1661.22	N.A.	48.60
0-60	2783.45	N.A.	81.50
0-80	3373.19	N.A.	98.70
0-90	3417.24	N.A.	100.00
10-90	3288.22	N.A.	96.20
20-40	1165.78	N.A.	34.10
20-50	1769.91	N.A.	51.80
40-70	1504.86	N.A.	44.00
60-80	589.74	N.A.	17.30
70-80	207.10	N.A.	6.10
80-90	44.05	N.A.	1.30
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	3417.24	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	129.01
10-20	366.43
20-30	542.63
30-40	623.15
40-50	604.13
50-60	518.09
60-70	382.64
70-80	207.10
80-90	44.05
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

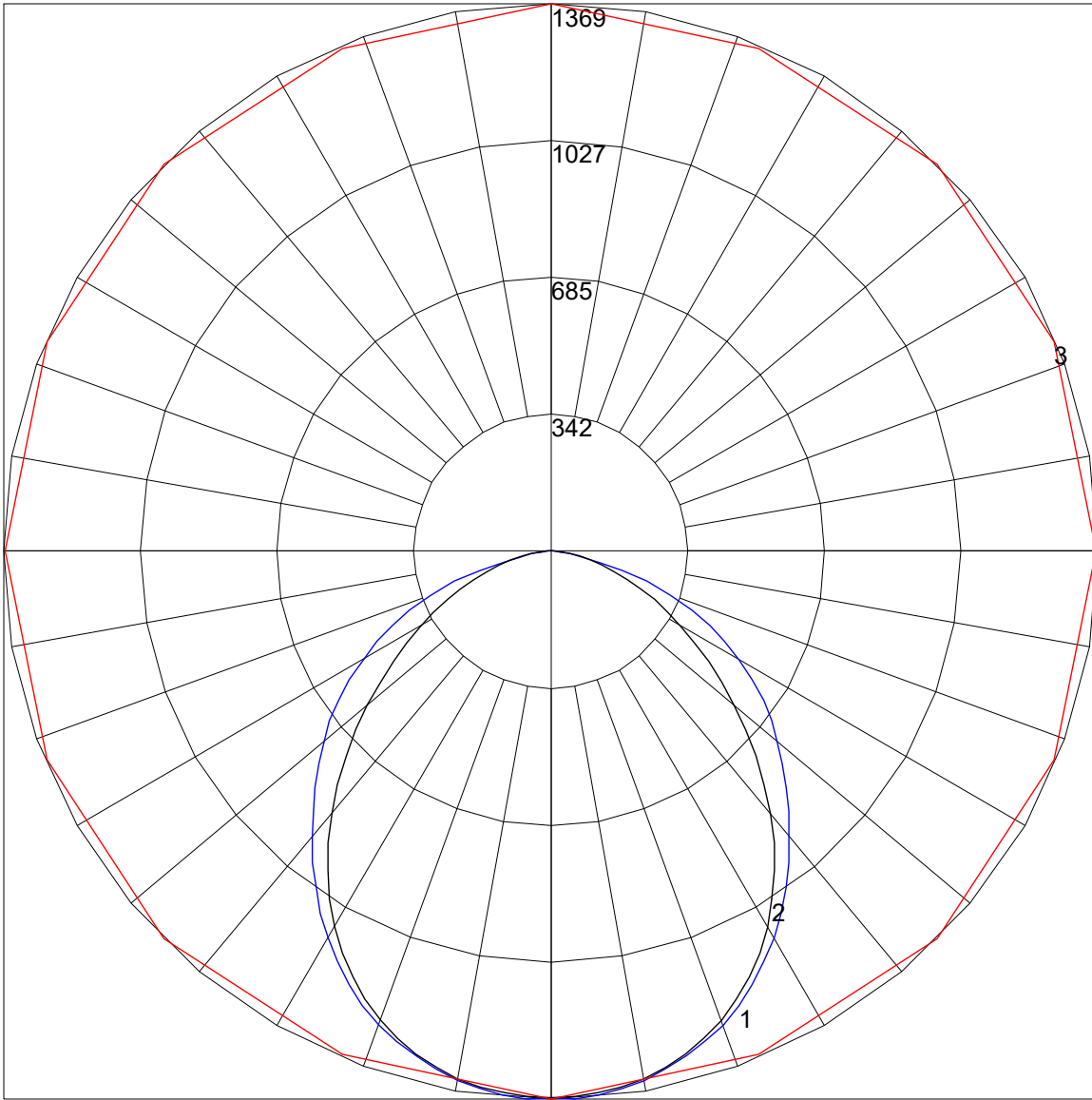
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : R1L14MFA40.IES**

**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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	45	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1369.207 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 3 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)