



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : R1L24MFA40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]1511031271-007P  
 [TESTLAB]Intertek  
 [ISSUEDATE]01/12/2017  
 [LUMCAT]R1L24MFA40/S1L24MFA40  
 [LUMINAIRE]LED RECESSED/SURFACE 2X4  
 [LAMP]LED  
 [LAMPCAT]NA. LUMINAIRE OUTPUT = 6133LMS  
 [OTHER]120.06 VAC, 56.8 W, 0.9979 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	6133
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	56.8
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)	3.92 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	2617	2990	3252
55	2202	2808	3196
65	1783	2739	3155
75	1326	2675	2657
85	829	1497	819

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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>	2314.712	2314.712	2314.712	2314.712	2314.712
<b>2.5</b>	2308.119	2316.470	2314.272	2316.616	2303.284
<b>5.0</b>	2298.595	2306.654	2306.067	2308.265	2296.398
<b>7.5</b>	2283.944	2290.830	2292.149	2295.519	2285.410
<b>10.0</b>	2262.994	2269.880	2271.052	2277.645	2267.975
<b>12.5</b>	2235.596	2242.189	2245.852	2253.910	2246.291
<b>15.0</b>	2200.141	2207.320	2216.110	2225.487	2220.066
<b>17.5</b>	2155.895	2165.711	2178.604	2193.401	2187.980
<b>20.0</b>	2104.763	2117.802	2135.530	2154.283	2152.672
<b>22.5</b>	2048.649	2063.447	2087.621	2109.598	2109.891
<b>25.0</b>	1982.866	2003.378	2031.947	2059.491	2062.128
<b>27.5</b>	1909.318	1932.906	1970.413	2004.696	2010.410
<b>30.0</b>	1827.859	1855.549	1903.165	1943.748	1953.271
<b>32.5</b>	1738.341	1771.306	1831.375	1880.309	1892.909
<b>35.0</b>	1643.842	1682.667	1754.018	1810.571	1827.859
<b>37.5</b>	1544.801	1589.927	1672.851	1736.437	1757.974
<b>40.0</b>	1442.538	1495.867	1586.410	1658.640	1685.305
<b>42.5</b>	1338.369	1400.343	1498.065	1578.352	1610.145
<b>45.0</b>	1234.200	1304.232	1410.159	1498.797	1534.106
<b>47.5</b>	1132.669	1209.587	1322.985	1420.414	1456.309
<b>50.0</b>	1033.628	1116.113	1238.010	1342.471	1377.780
<b>52.5</b>	936.492	1023.665	1154.352	1265.700	1299.544
<b>55.0</b>	842.579	933.269	1074.211	1190.394	1222.773
<b>57.5</b>	752.036	844.777	997.001	1116.406	1145.708
<b>60.0</b>	665.888	757.310	920.815	1042.272	1062.784
<b>62.5</b>	582.817	672.334	846.095	963.450	974.585
<b>65.0</b>	502.529	589.996	772.108	878.914	889.316
<b>67.5</b>	425.905	512.052	695.776	794.963	803.607
<b>70.0</b>	353.675	438.944	616.075	709.255	709.255
<b>72.5</b>	287.306	369.791	538.717	614.609	596.149
<b>75.0</b>	228.995	305.473	461.800	501.357	458.723
<b>77.5</b>	176.545	245.258	379.168	368.473	315.143
<b>80.0</b>	128.636	186.947	286.720	234.856	193.247
<b>82.5</b>	85.708	131.419	184.310	127.903	105.780
<b>85.0</b>	48.202	75.892	87.027	55.088	47.616
<b>87.5</b>	16.556	21.097	15.823	11.135	10.842
<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	0.147	0.000	0.000
<b>170.0</b>	0.000	0.000	0.000	0.147	0.147
<b>172.5</b>	0.000	0.000	0.147	0.147	0.147
<b>175.0</b>	0.000	0.000	0.000	0.000	0.147
<b>177.5</b>	0.000	0.000	0.147	0.000	0.147
<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	843.45	N.A.	13.80
0-30	1777.26	N.A.	29.00
0-40	2868.00	N.A.	46.80
0-60	4895.69	N.A.	79.80
0-80	6044.63	N.A.	98.60
0-90	6133.1	N.A.	100.00
10-90	5914.17	N.A.	96.40
20-40	2024.55	N.A.	33.00
20-50	3105.03	N.A.	50.60
40-70	2754.95	N.A.	44.90
60-80	1148.94	N.A.	18.70
70-80	421.69	N.A.	6.90
80-90	88.46	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	0.01	N.A.	0.00
110-180	0.01	N.A.	0.00
0-180	6133.11	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	218.93
10-20	624.52
20-30	933.81
30-40	1090.74
40-50	1080.49
50-60	947.21
60-70	727.25
70-80	421.69
80-90	88.46
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	0.01

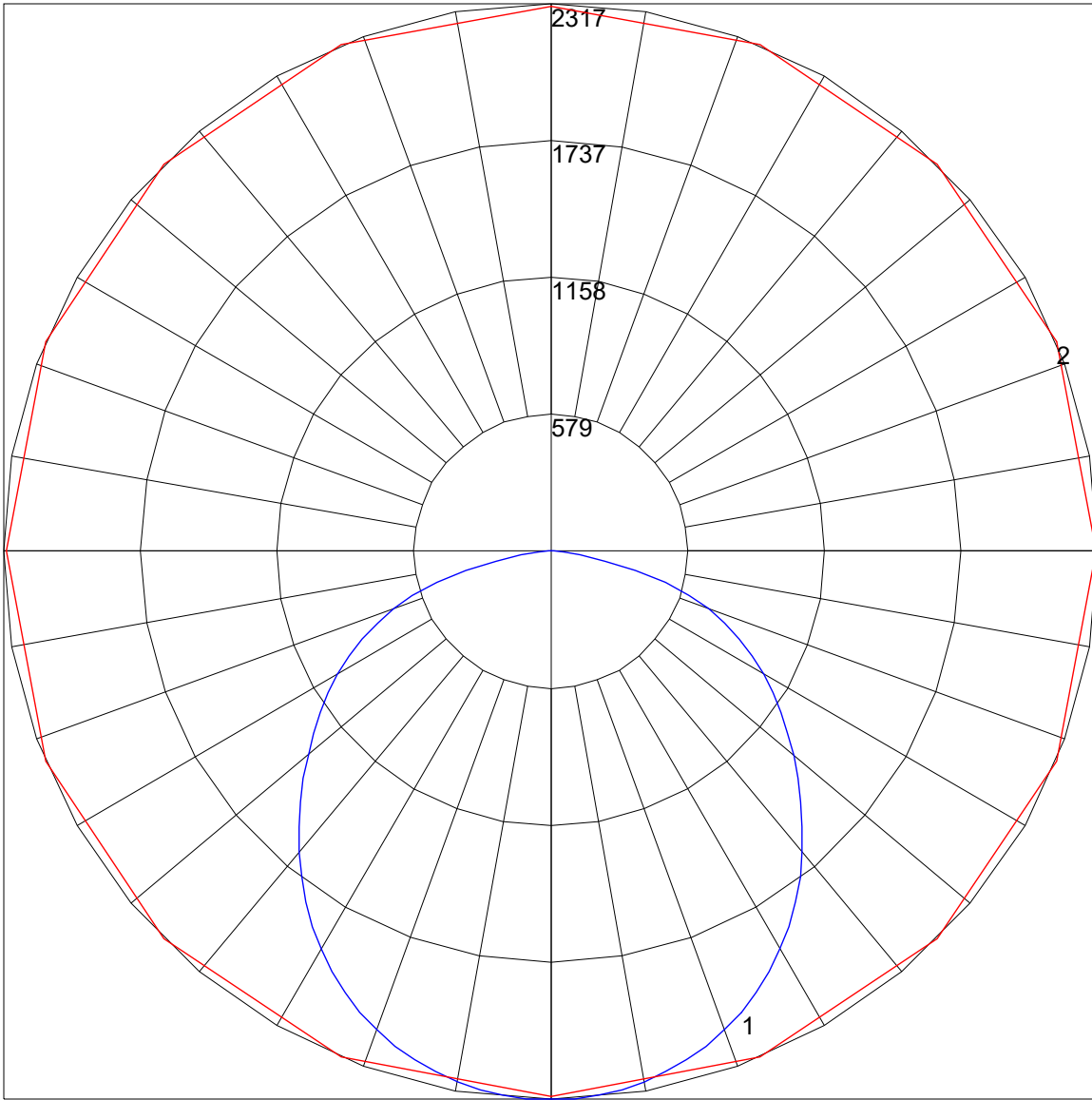
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 2316.616 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)