



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : R1L14HFA40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]1411031240-003P3  
 [TESTLAB]Intertek  
 [ISSUEDATE]10/10/2017  
 [LUMCAT]1411031240-003 MOD: R1L14HFA40/S1L14HFA40  
 [LUMINAIRE]LED RECESSED/SURFACE 1X4  
 [LAMP]LED  
 [LAMPCAT]NA. LUMINAIRE OUTPUT = 4294LMS  
 [OTHER]120.00 VAC,198.30 mA, 45.4 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	4294
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	45.4
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	4019	4366	4614
55	3287	4040	4439
65	2652	3874	4068
75	2021	3553	2776
85	1125	1911	1047

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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>	1718.090	1718.090	1718.090	1718.090	1718.090
<b>2.5</b>	1714.636	1714.091	1719.908	1708.820	1720.453
<b>5.0</b>	1708.274	1705.366	1711.001	1703.367	1715.182
<b>7.5</b>	1697.368	1693.188	1698.277	1690.279	1703.730
<b>10.0</b>	1682.281	1677.374	1682.645	1673.193	1687.007
<b>12.5</b>	1661.923	1657.015	1661.196	1652.835	1666.649
<b>15.0</b>	1635.748	1631.204	1634.839	1628.477	1641.928
<b>17.5</b>	1603.393	1598.849	1605.211	1600.121	1615.572
<b>20.0</b>	1567.585	1560.314	1570.493	1568.857	1583.035
<b>22.5</b>	1524.687	1521.233	1530.322	1530.322	1545.590
<b>25.0</b>	1474.700	1470.519	1485.061	1485.061	1500.330
<b>27.5</b>	1420.714	1417.261	1434.711	1435.801	1451.615
<b>30.0</b>	1362.366	1358.913	1379.998	1385.087	1402.537
<b>32.5</b>	1294.930	1295.111	1321.468	1329.466	1347.643
<b>35.0</b>	1224.585	1226.948	1258.575	1271.481	1289.476
<b>37.5</b>	1152.967	1155.875	1191.139	1210.770	1229.311
<b>40.0</b>	1073.715	1085.712	1124.247	1149.150	1167.145
<b>42.5</b>	993.010	1006.824	1057.538	1089.893	1106.616
<b>45.0</b>	911.577	931.026	990.283	1031.908	1046.632
<b>47.5</b>	830.144	856.137	924.482	974.105	988.284
<b>50.0</b>	751.983	784.519	860.499	917.211	931.208
<b>52.5</b>	677.457	716.356	800.515	861.772	875.768
<b>55.0</b>	604.749	650.918	743.258	807.059	816.693
<b>57.5</b>	537.494	587.844	687.999	748.347	750.347
<b>60.0</b>	474.601	527.315	634.377	680.365	681.819
<b>62.5</b>	415.344	470.057	582.028	612.201	616.564
<b>65.0</b>	359.541	415.526	525.134	547.673	551.490
<b>67.5</b>	307.191	363.540	463.877	484.417	481.327
<b>70.0</b>	257.205	313.553	405.892	418.435	402.439
<b>72.5</b>	210.490	266.475	350.816	345.727	317.007
<b>75.0</b>	167.774	221.396	295.013	267.020	230.484
<b>77.5</b>	129.057	174.863	235.756	189.768	156.868
<b>80.0</b>	92.157	131.965	172.500	125.240	101.246
<b>82.5</b>	59.257	91.067	109.426	74.889	60.166
<b>85.0</b>	31.446	51.259	53.440	37.081	29.265
<b>87.5</b>	9.270	14.178	12.179	9.270	7.271
<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	622.54	N.A.	14.50
0-30	1304.37	N.A.	30.40
0-40	2087.38	N.A.	48.60
0-60	3497.49	N.A.	81.50
0-80	4238.52	N.A.	98.70
0-90	4293.87	N.A.	100.00
10-90	4131.76	N.A.	96.20
20-40	1464.84	N.A.	34.10
20-50	2223.95	N.A.	51.80
40-70	1890.91	N.A.	44.00
60-80	741.03	N.A.	17.30
70-80	260.23	N.A.	6.10
80-90	55.35	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	4293.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	162.11
10-20	460.43
20-30	681.83
30-40	783.01
40-50	759.11
50-60	651.00
60-70	480.80
70-80	260.23
80-90	55.35
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

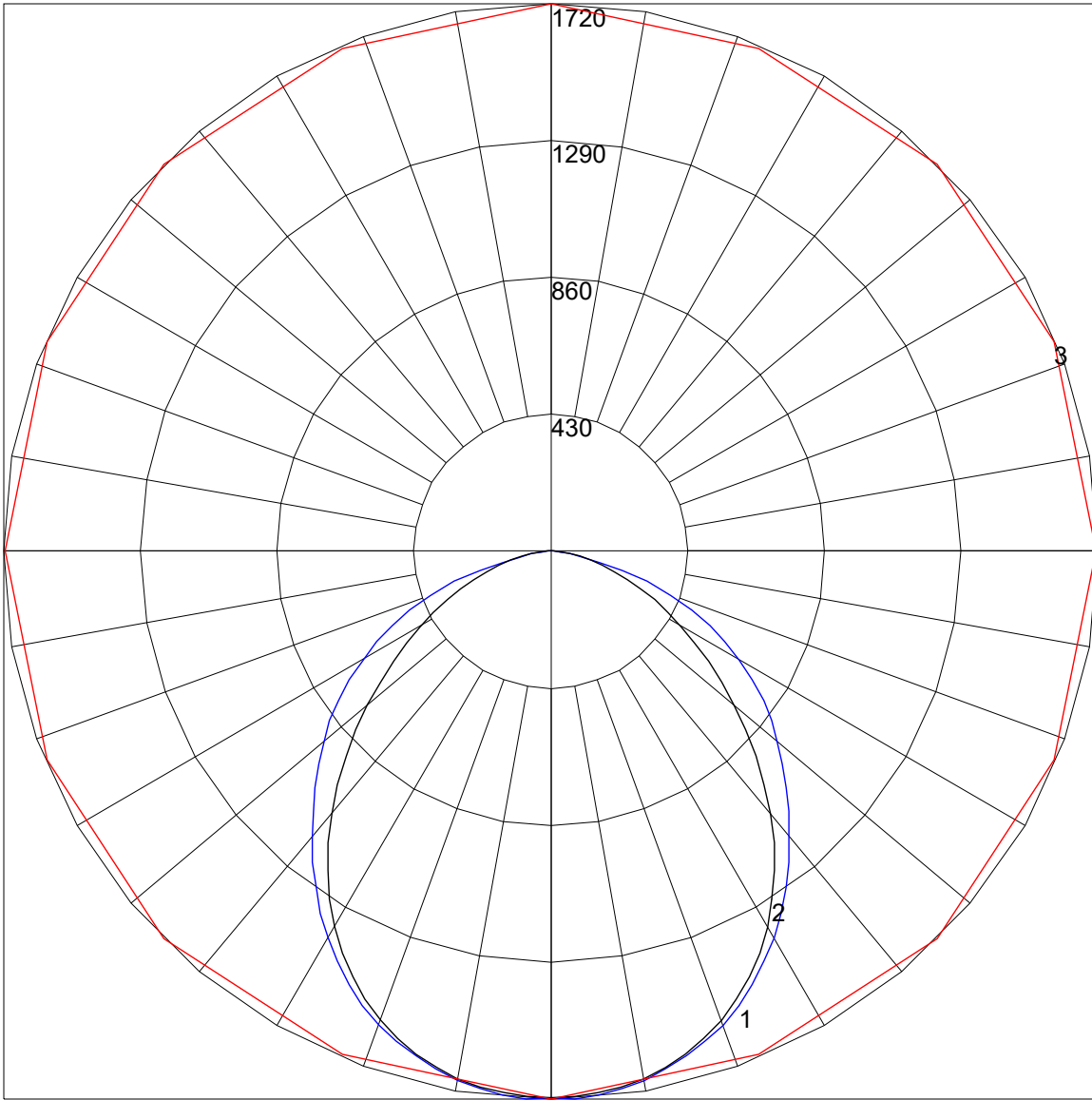
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	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	76	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 = 1720.453 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.)