



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : R1L22HFA40.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1512035240-003P3
[TESTLAB]Intertek
[ISSUE DATE]01/11/2017
[LUMCAT]R1L22HFA40/S1L22HFA40
[LUMINAIRE]LED RECESSED/SURFACE 2X2
[LAMP]LED
[LAMP CAT]NA. LUMINAIRE OUTPUT = 4273 LMS
[OTHER]120.02 VAC, 45.6 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	4273
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	45.6
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	3667	4250	4685
55	3004	3955	4620
65	2457	3838	4560
75	1936	3698	3644
85	1218	2008	1172

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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>
0.0	1639.124	1639.124	1639.124	1639.124	1639.124
2.5	1637.169	1644.336	1640.752	1634.889	1632.772
5.0	1634.238	1641.567	1637.495	1629.514	1627.560
7.5	1625.117	1631.795	1630.980	1622.185	1619.742
10.0	1600.524	1610.947	1614.693	1610.459	1607.201
12.5	1575.604	1585.051	1595.312	1594.986	1591.240
15.0	1547.102	1557.852	1568.112	1576.093	1571.858
17.5	1515.017	1526.743	1540.424	1552.640	1550.848
20.0	1476.742	1491.075	1508.991	1525.929	1526.092
22.5	1431.953	1448.892	1473.322	1492.704	1495.472
25.0	1382.766	1401.171	1431.302	1454.429	1461.433
27.5	1328.531	1348.726	1385.209	1414.689	1425.113
30.0	1269.572	1292.862	1336.023	1371.203	1384.069
32.5	1207.518	1233.252	1284.556	1326.902	1341.723
35.0	1141.230	1169.569	1228.691	1277.227	1294.328
37.5	1070.870	1102.630	1169.895	1224.294	1243.024
40.0	998.067	1033.899	1108.330	1168.592	1190.091
42.5	923.147	963.865	1044.811	1111.588	1136.344
45.0	847.087	895.134	981.780	1054.420	1082.434
47.5	772.004	827.217	918.913	997.579	1028.198
50.0	699.201	760.603	857.673	940.737	972.985
52.5	629.167	695.618	798.226	884.873	918.424
55.0	562.879	633.076	741.221	830.800	865.817
57.5	500.988	573.302	687.311	777.867	813.699
60.0	443.658	516.298	634.216	725.749	756.368
62.5	389.096	460.922	582.097	668.418	693.012
65.0	339.258	406.524	529.979	606.528	629.655
67.5	290.886	353.428	476.883	545.940	564.996
70.0	245.445	303.590	421.670	485.190	494.473
72.5	202.610	256.195	367.598	417.762	409.455
75.0	163.684	211.405	312.710	337.467	308.150
77.5	128.016	168.245	253.914	245.119	208.962
80.0	94.465	126.713	189.581	156.844	128.504
82.5	62.542	86.484	120.524	87.461	71.989
85.0	34.691	47.395	57.167	39.089	33.388
87.5	11.401	11.890	11.727	9.284	8.306
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	596.86	N.A.	14.00
0-30	1253.78	N.A.	29.30
0-40	2017.83	N.A.	47.20
0-60	3424.04	N.A.	80.10
0-80	4213.44	N.A.	98.60
0-90	4272.87	N.A.	100.00
10-90	4117.56	N.A.	96.40
20-40	1420.97	N.A.	33.30
20-50	2172.9	N.A.	50.90
40-70	1908.08	N.A.	44.70
60-80	789.40	N.A.	18.50
70-80	287.53	N.A.	6.70
80-90	59.43	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	4272.87	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

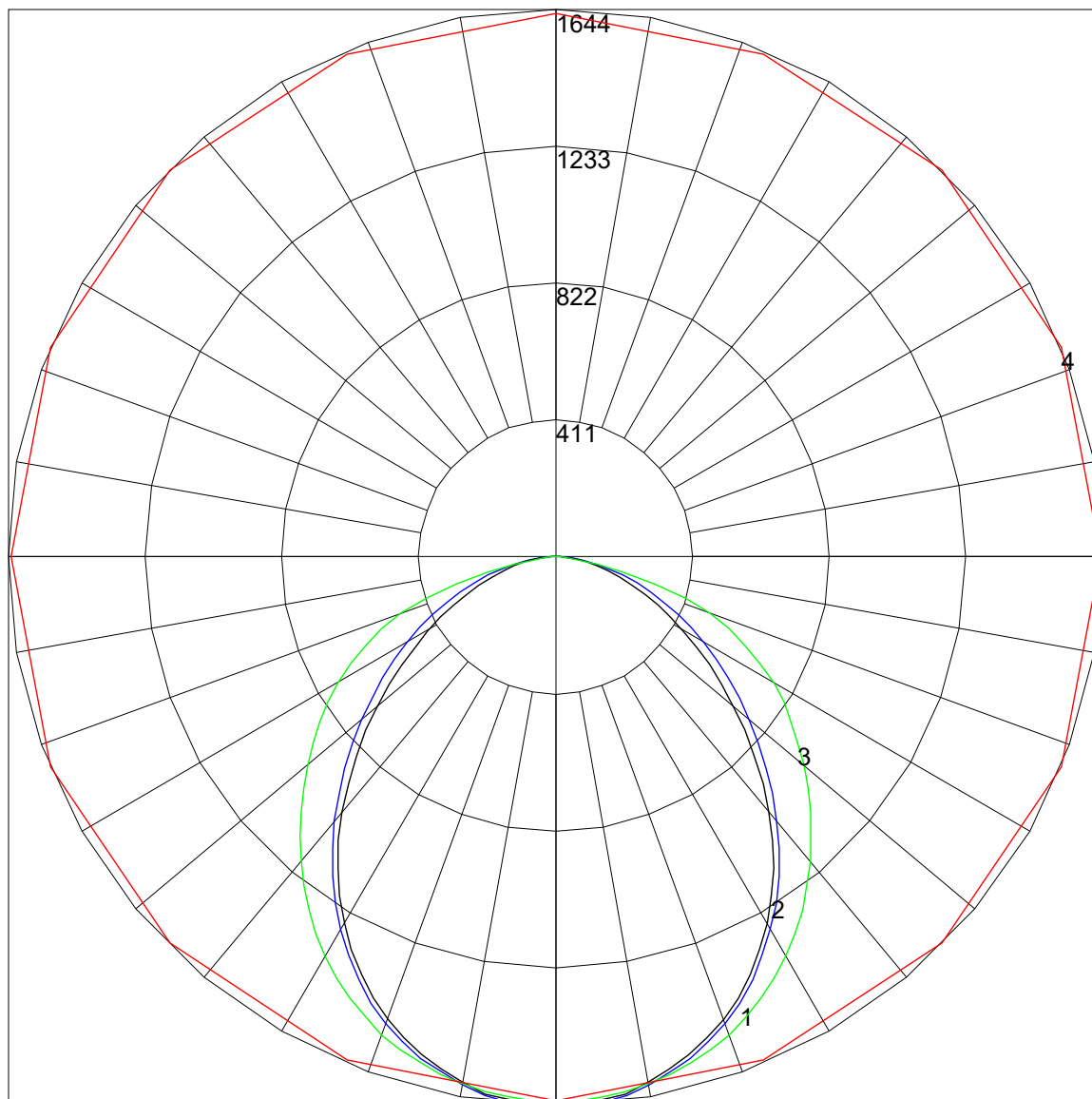
Zone	Lumens
0-10	155.31
10-20	441.55
20-30	656.92
30-40	764.05
40-50	751.93
50-60	654.28
60-70	501.87
70-80	287.53
80-90	59.43
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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 = 1644.336 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.)