



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : R2L22HFA40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST]1411031240-004P5  
 [TESTLAB]Intertek  
 [ISSUE DATE]11/10/2017  
 [LUMCAT]1411031240-004 MOD: R2L22HFA40/S2L22HFA40  
 [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	1173

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : R2L22HFA40.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>	1639.224	1639.224	1639.224	1639.224	1639.224
<b>2.5</b>	1637.270	1644.437	1640.853	1634.989	1632.872
<b>5.0</b>	1634.338	1641.668	1637.596	1629.614	1627.660
<b>7.5</b>	1625.217	1631.895	1631.080	1622.285	1619.842
<b>10.0</b>	1600.622	1611.046	1614.792	1610.557	1607.300
<b>12.5</b>	1575.701	1585.148	1595.410	1595.084	1591.338
<b>15.0</b>	1547.197	1557.947	1568.209	1576.190	1571.955
<b>17.5</b>	1515.110	1526.837	1540.519	1552.735	1550.943
<b>20.0</b>	1476.833	1491.166	1509.083	1526.023	1526.186
<b>22.5</b>	1432.041	1448.981	1473.413	1492.795	1495.564
<b>25.0</b>	1382.851	1401.257	1431.389	1454.518	1461.522
<b>27.5</b>	1328.612	1348.809	1385.294	1414.776	1425.200
<b>30.0</b>	1269.650	1292.941	1336.105	1371.287	1384.154
<b>32.5</b>	1207.592	1233.327	1284.635	1326.983	1341.805
<b>35.0</b>	1141.300	1169.641	1228.767	1277.305	1294.407
<b>37.5</b>	1070.936	1102.698	1169.967	1224.369	1243.100
<b>40.0</b>	998.129	1033.962	1108.398	1168.664	1190.164
<b>42.5</b>	923.204	963.924	1044.875	1111.656	1136.414
<b>45.0</b>	847.139	895.188	981.841	1054.485	1082.501
<b>47.5</b>	772.051	827.268	918.969	997.640	1028.261
<b>50.0</b>	699.244	760.650	857.726	940.795	973.045
<b>52.5</b>	629.205	695.660	798.275	884.927	918.480
<b>55.0</b>	562.913	633.115	741.267	830.851	865.870
<b>57.5</b>	501.019	573.338	687.354	777.915	813.748
<b>60.0</b>	443.685	516.330	634.255	725.793	756.415
<b>62.5</b>	389.120	460.950	582.133	668.460	693.054
<b>65.0</b>	339.279	406.548	530.012	606.565	629.694
<b>67.5</b>	290.904	353.450	476.913	545.974	565.031
<b>70.0</b>	245.460	303.608	421.696	485.220	494.504
<b>72.5</b>	202.623	256.210	367.620	417.787	409.480
<b>75.0</b>	163.694	211.418	312.730	337.487	308.169
<b>77.5</b>	128.024	168.255	253.930	245.134	208.975
<b>80.0</b>	94.470	126.721	189.592	156.853	128.512
<b>82.5</b>	62.546	86.489	120.531	87.467	71.993
<b>85.0</b>	34.693	47.398	57.171	39.091	33.390
<b>87.5</b>	11.402	11.890	11.727	9.284	8.307
<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 : R2L22HFA40.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 : R2L22HFA40.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	596.90	N.A.	14.00
0-30	1253.86	N.A.	29.30
0-40	2017.96	N.A.	47.20
0-60	3424.25	N.A.	80.10
0-80	4213.7	N.A.	98.60
0-90	4273.13	N.A.	100.00
10-90	4117.81	N.A.	96.40
20-40	1421.06	N.A.	33.30
20-50	2173.03	N.A.	50.90
40-70	1908.2	N.A.	44.70
60-80	789.45	N.A.	18.50
70-80	287.55	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	4273.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	155.32
10-20	441.58
20-30	656.96
30-40	764.10
40-50	751.97
50-60	654.32
60-70	501.90
70-80	287.55
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

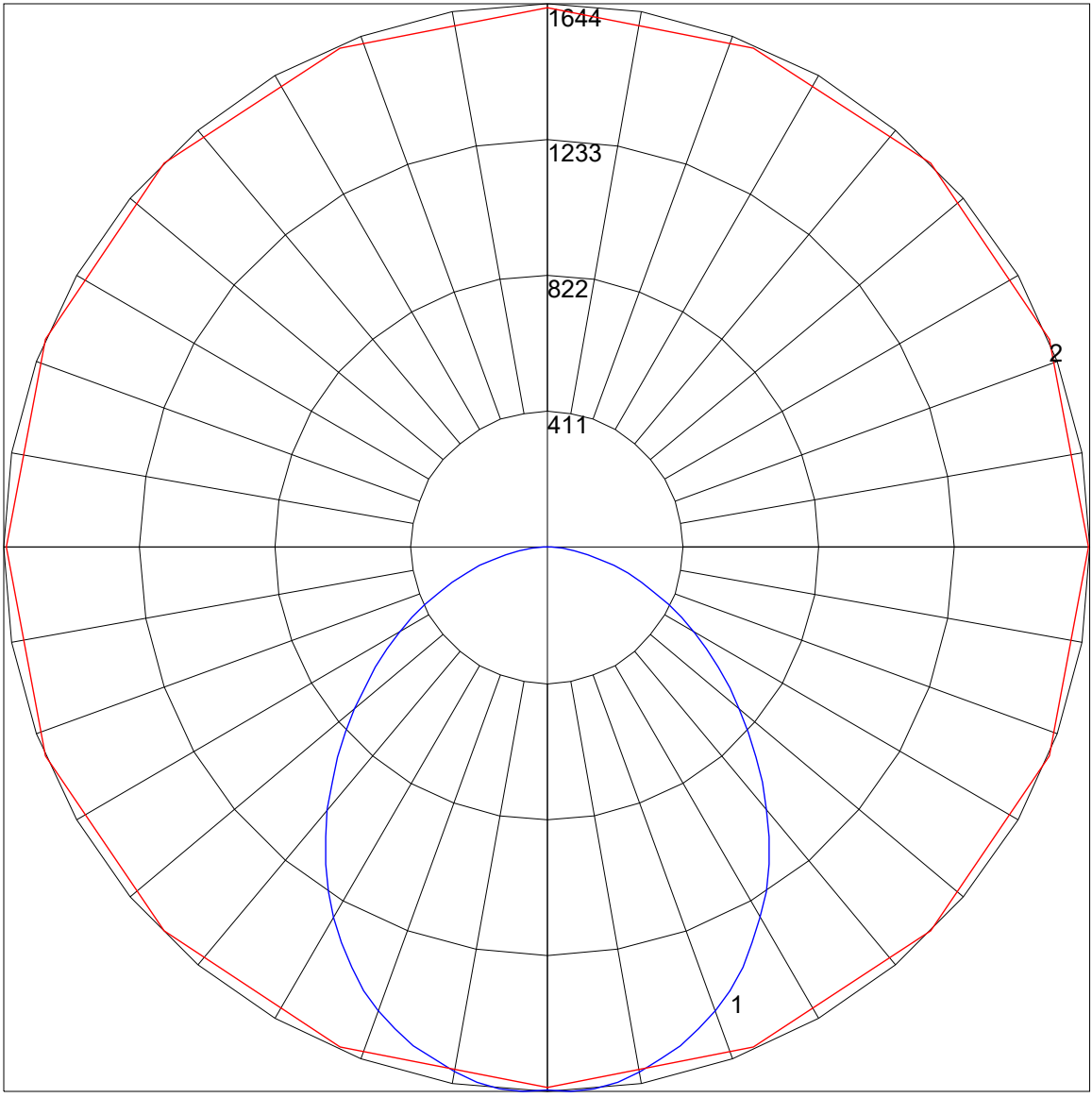
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : R2L22HFA40.IES**

**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	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	71	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	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 = 1644.437 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)