



IES INDOOR REPORT
PHOTOMETRIC FILENAME : R2L22MFA40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1411031240-004P4
 [TESTLAB]Intertek
 [ISSUE DATE]11/10/2017
 [LUMCAT]1411031240-004 MOD: R2L22MFA40/S2L22MFA40
 [LUMINAIRE]LED RECESSED/SURFACE 2X2
 [LAMP]LED
 [LAMP CAT]NA. LUMINAIRE OUTPUT = 3401 LMS
 [OTHER]120.02 VAC, 34.5 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	3401
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	34.5
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	2918	3383	3729
55	2391	3148	3677
65	1956	3055	3630
75	1541	2943	2901
85	970	1598	933

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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	1304.697	1304.697	1304.697	1304.697	1304.697
2.5	1303.141	1308.845	1305.993	1301.326	1299.641
5.0	1300.808	1306.642	1303.401	1297.048	1295.492
7.5	1293.548	1298.863	1298.215	1291.214	1289.270
10.0	1273.972	1282.269	1285.251	1281.880	1279.287
12.5	1254.137	1261.656	1269.824	1269.564	1266.583
15.0	1231.450	1240.007	1248.174	1254.526	1251.156
17.5	1205.911	1215.245	1226.135	1235.858	1234.432
20.0	1175.446	1186.854	1201.115	1214.597	1214.727
22.5	1139.795	1153.277	1172.723	1188.151	1190.354
25.0	1100.644	1115.293	1139.276	1157.685	1163.260
27.5	1057.473	1073.549	1102.588	1126.053	1134.350
30.0	1010.544	1029.082	1063.437	1091.439	1101.681
32.5	961.151	981.634	1022.471	1056.177	1067.974
35.0	908.387	930.945	978.004	1016.637	1030.249
37.5	852.383	877.663	931.204	974.504	989.412
40.0	794.434	822.955	882.200	930.167	947.279
42.5	734.799	767.209	831.641	884.793	904.498
45.0	674.258	712.501	781.470	839.289	861.587
47.5	614.494	658.442	731.429	794.045	818.417
50.0	556.544	605.419	682.684	748.801	774.469
52.5	500.799	553.692	635.366	704.334	731.040
55.0	448.036	503.911	589.992	661.294	689.166
57.5	398.773	456.333	547.081	619.161	647.681
60.0	353.139	410.959	504.818	577.676	602.048
62.5	309.710	366.881	463.333	532.043	551.618
65.0	270.040	323.581	421.849	482.779	501.188
67.5	231.537	281.319	379.586	434.553	449.721
70.0	195.367	241.649	335.638	386.198	393.587
72.5	161.272	203.924	292.597	332.527	325.915
75.0	130.288	168.273	248.909	268.614	245.279
77.5	101.897	133.918	202.109	195.108	166.328
80.0	75.191	100.860	150.901	124.843	102.286
82.5	49.782	68.839	95.934	69.617	57.301
85.0	27.613	37.725	45.504	31.114	26.576
87.5	9.075	9.464	9.334	7.389	6.612
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	475.08	N.A.	14.00
0-30	997.97	N.A.	29.30
0-40	1606.14	N.A.	47.20
0-60	2725.44	N.A.	80.10
0-80	3353.78	N.A.	98.60
0-90	3401.09	N.A.	100.00
10-90	3277.46	N.A.	96.40
20-40	1131.06	N.A.	33.30
20-50	1729.57	N.A.	50.90
40-70	1518.78	N.A.	44.70
60-80	628.34	N.A.	18.50
70-80	228.87	N.A.	6.70
80-90	47.30	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	3401.09	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.62
10-20	351.46
20-30	522.89
30-40	608.16
40-50	598.51
50-60	520.79
60-70	399.48
70-80	228.87
80-90	47.30
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

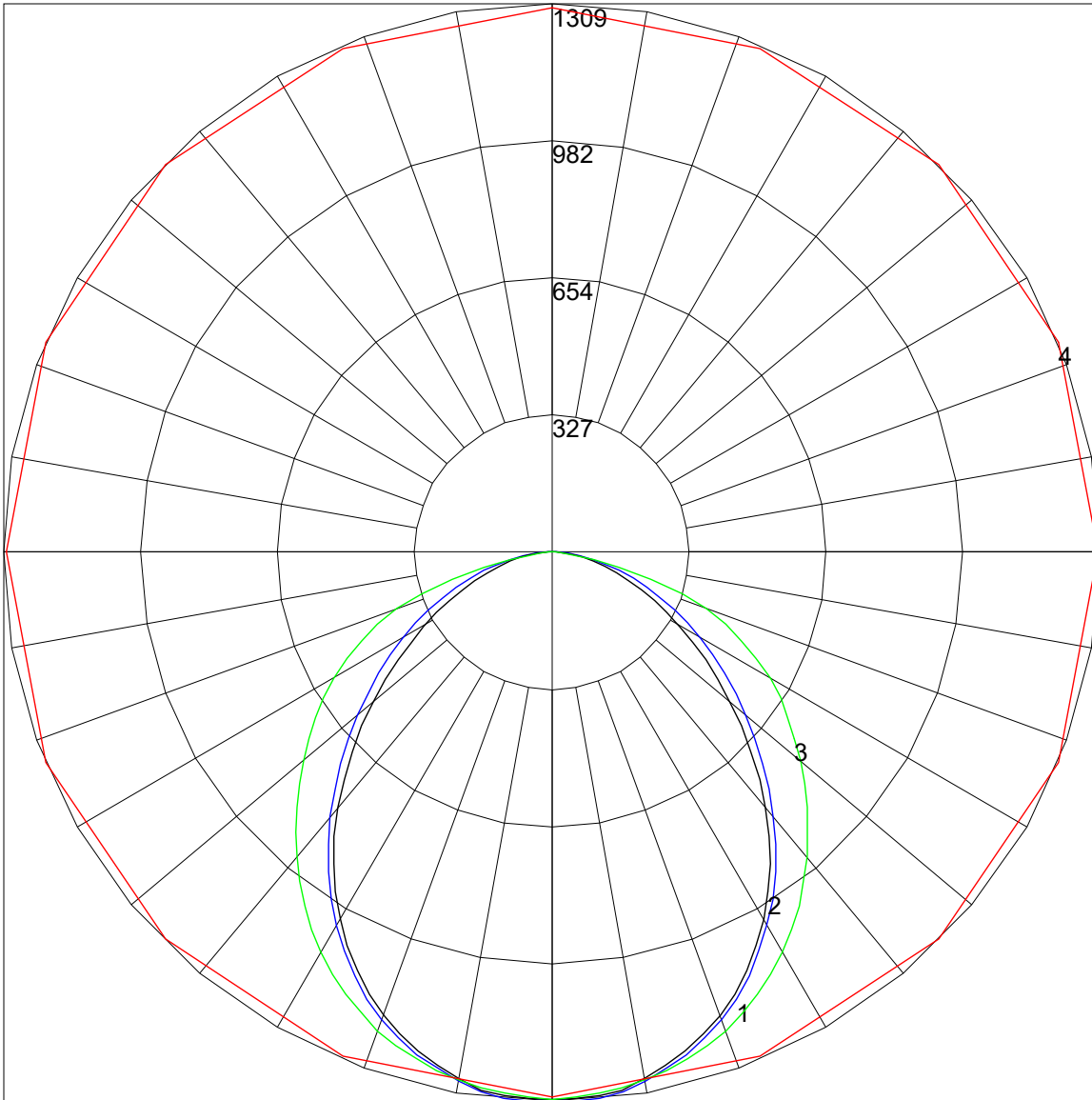
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	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 = 1308.845 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.)