



IES INDOOR REPORT

PHOTOMETRIC FILENAME : R2L22MFA35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1411031240-004P3
[TESTLAB]Intertek
[ISSUEDATE]11/10/2014
[LUMCAT]1411031240-004 MOD: R2L22MFA35/S2L22MFA35
[LUMINAIRE]LED RECESSED/SURFACE 2X2
[LAMP]LED
[LAMPCAT]NA. LUMINAIRE OUTPUT = 3298 LMS
[OTHER]120.02 VAC, 34.5 W, 0.9963 PF
[MANUFAC] LAMAR LIGHTING CO., INC.
[_SEARCH_SOURCE] LED
[_SEARCH_APPLICATION] Indoor
[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3298
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	2830	3280	3616
55	2318	3053	3566
65	1896	2962	3519
75	1494	2854	2812
85	940	1549	905

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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	1265.045	1265.045	1265.045	1265.045	1265.045
2.5	1263.536	1269.067	1266.302	1261.777	1260.142
5.0	1261.274	1266.930	1263.788	1257.628	1256.120
7.5	1254.235	1259.388	1258.760	1251.972	1250.086
10.0	1235.254	1243.299	1246.190	1242.922	1240.408
12.5	1216.022	1223.312	1231.231	1230.980	1228.089
15.0	1194.024	1202.320	1210.240	1216.399	1213.131
17.5	1169.261	1178.312	1188.871	1198.298	1196.915
20.0	1139.722	1150.783	1164.610	1177.683	1177.809
22.5	1105.154	1118.227	1137.082	1152.040	1154.177
25.0	1067.193	1081.397	1104.652	1122.501	1127.906
27.5	1025.335	1040.922	1069.078	1091.830	1099.875
30.0	979.831	997.807	1031.117	1058.268	1068.199
32.5	931.940	951.800	991.396	1024.078	1035.517
35.0	880.780	902.652	948.281	985.739	998.938
37.5	826.477	850.989	902.903	944.887	959.342
40.0	770.290	797.944	855.388	901.897	918.490
42.5	712.468	743.893	806.365	857.902	877.009
45.0	653.766	690.847	757.720	813.782	835.402
47.5	595.818	638.430	709.199	769.912	793.544
50.0	539.630	587.019	661.936	726.043	750.932
52.5	485.579	536.865	616.056	682.928	708.822
55.0	434.419	488.596	572.061	641.196	668.221
57.5	386.653	442.464	530.454	600.343	627.997
60.0	342.407	398.469	489.476	560.119	583.751
62.5	300.297	355.731	449.252	515.873	534.853
65.0	261.833	313.747	409.028	468.107	485.956
67.5	224.500	272.769	368.050	421.346	436.053
70.0	189.430	234.305	325.437	374.460	381.625
72.5	156.371	197.726	283.705	322.420	316.010
75.0	126.328	163.159	241.344	260.450	237.824
77.5	98.800	129.848	195.966	189.178	161.273
80.0	72.906	97.795	146.315	121.049	99.177
82.5	48.269	66.747	93.018	67.501	55.559
85.0	26.774	36.579	44.121	30.168	25.768
87.5	8.799	9.176	9.050	7.165	6.411
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	460.64	N.A.	14.00
0-30	967.64	N.A.	29.30
0-40	1557.33	N.A.	47.20
0-60	2642.61	N.A.	80.10
0-80	3251.86	N.A.	98.60
0-90	3297.72	N.A.	100.00
10-90	3177.86	N.A.	96.40
20-40	1096.68	N.A.	33.30
20-50	1677.00	N.A.	50.90
40-70	1472.62	N.A.	44.70
60-80	609.25	N.A.	18.50
70-80	221.91	N.A.	6.70
80-90	45.87	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	3297.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.87
10-20	340.78
20-30	507.00
30-40	589.68
40-50	580.32
50-60	504.96
60-70	387.34
70-80	221.91
80-90	45.87
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

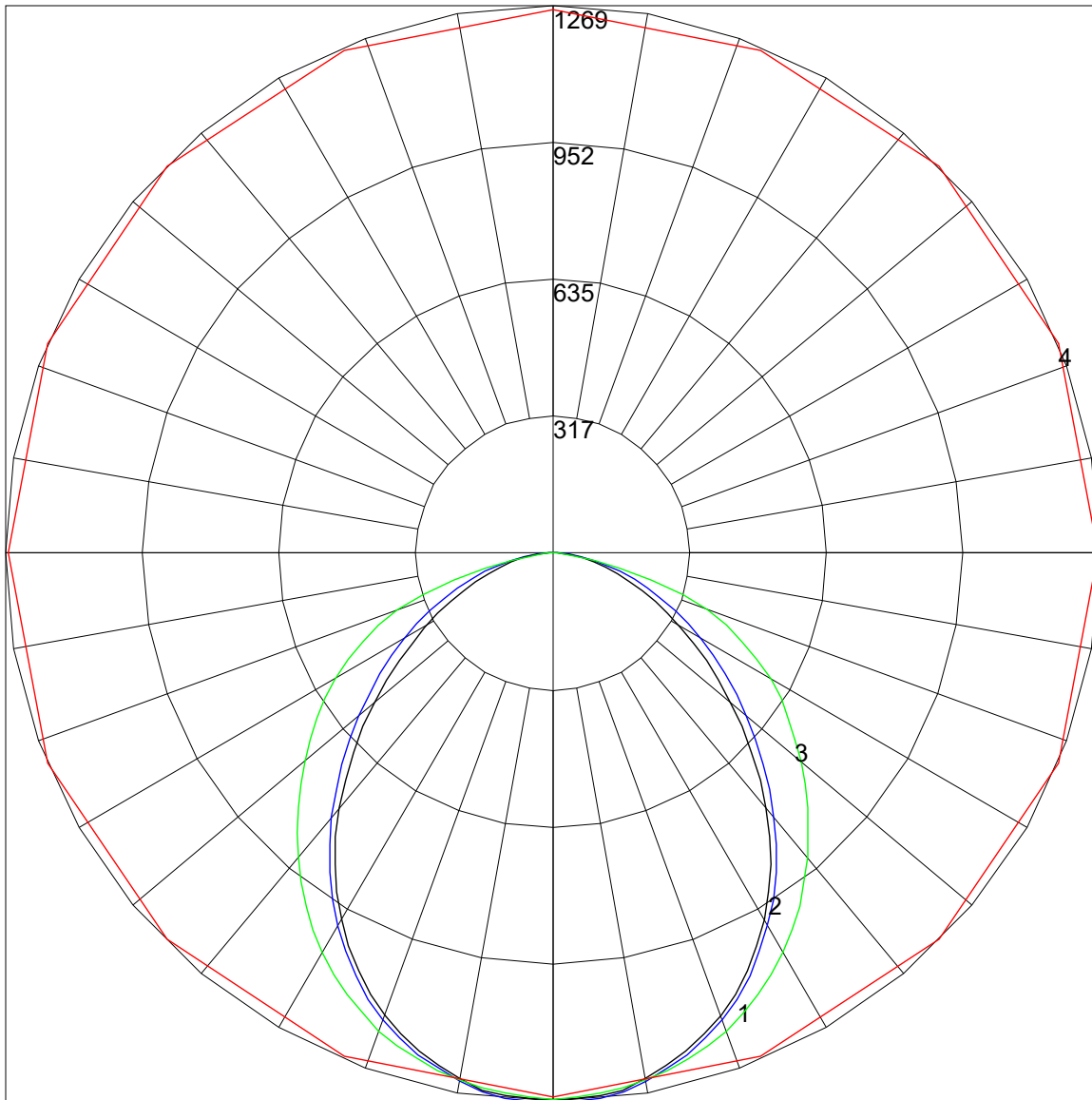
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 1269.067 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.)