



IES INDOOR REPORT
PHOTOMETRIC FILENAME : R1L14LFA40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1411031240-003P1
 [TESTLAB]Intertek
 [ISSUEDATE]11/10/2017
 [LUMCAT]1411031240-003 MOD: R1L14LFA40/S1L14LFA40
 [LUMINAIRE]LED RECESSED/SURFACE 1X4
 [LAMP]LED
 [LAMPCAT]NA. LUMINAIRE OUTPUT = 2487 LMS
 [OTHER]120.00 VAC,198.30 mA, 23.695 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	2487
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	23.7
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	2327	2528	2672
55	1903	2339	2570
65	1536	2243	2356
75	1170	2058	1608
85	651	1107	606

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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	994.918	994.918	994.918	994.918	994.918
2.5	992.918	992.602	995.970	989.549	996.286
5.0	989.234	987.549	990.812	986.391	993.233
7.5	982.918	980.497	983.444	978.813	986.602
10.0	974.181	971.339	974.392	968.918	976.918
12.5	962.392	959.550	961.971	957.129	965.129
15.0	947.235	944.603	946.708	943.024	950.814
17.5	928.498	925.867	929.551	926.604	935.551
20.0	907.762	903.552	909.446	908.499	916.709
22.5	882.921	880.921	886.184	886.184	895.026
25.0	853.974	851.553	859.974	859.974	868.816
27.5	822.712	820.712	830.817	831.449	840.606
30.0	788.924	786.924	799.134	802.081	812.186
32.5	749.872	749.978	765.240	769.872	780.398
35.0	709.137	710.505	728.820	736.294	746.714
37.5	667.664	669.348	689.769	701.137	711.873
40.0	621.771	628.718	651.033	665.454	675.874
42.5	575.035	583.035	612.403	631.139	640.823
45.0	527.879	539.142	573.456	597.561	606.087
47.5	480.722	495.775	535.352	564.088	572.299
50.0	435.461	454.302	498.301	531.142	539.247
52.5	392.304	414.830	463.565	499.038	507.143
55.0	350.200	376.936	430.408	467.354	472.933
57.5	311.254	340.411	398.409	433.355	434.513
60.0	274.834	305.359	367.357	393.988	394.830
62.5	240.519	272.202	337.043	354.516	357.042
65.0	208.204	240.624	304.096	317.148	319.359
67.5	177.889	210.520	268.624	280.518	278.728
70.0	148.943	181.574	235.046	242.309	233.046
72.5	121.891	154.311	203.152	200.205	183.573
75.0	97.155	128.207	170.837	154.627	133.470
77.5	74.735	101.260	136.522	109.891	90.839
80.0	53.367	76.419	99.892	72.524	58.630
82.5	34.315	52.735	63.367	43.367	34.841
85.0	18.210	29.683	30.946	21.473	16.947
87.5	5.368	8.210	7.052	5.368	4.210
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	360.50	N.A.	14.50
0-30	755.34	N.A.	30.40
0-40	1208.77	N.A.	48.60
0-60	2025.34	N.A.	81.50
0-80	2454.46	N.A.	98.70
0-90	2486.51	N.A.	100.00
10-90	2392.63	N.A.	96.20
20-40	848.26	N.A.	34.10
20-50	1287.85	N.A.	51.80
40-70	1094.99	N.A.	44.00
60-80	429.12	N.A.	17.30
70-80	150.70	N.A.	6.10
80-90	32.05	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	2486.51	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.88
10-20	266.63
20-30	394.84
30-40	453.43
40-50	439.59
50-60	376.98
60-70	278.42
70-80	150.70
80-90	32.05
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

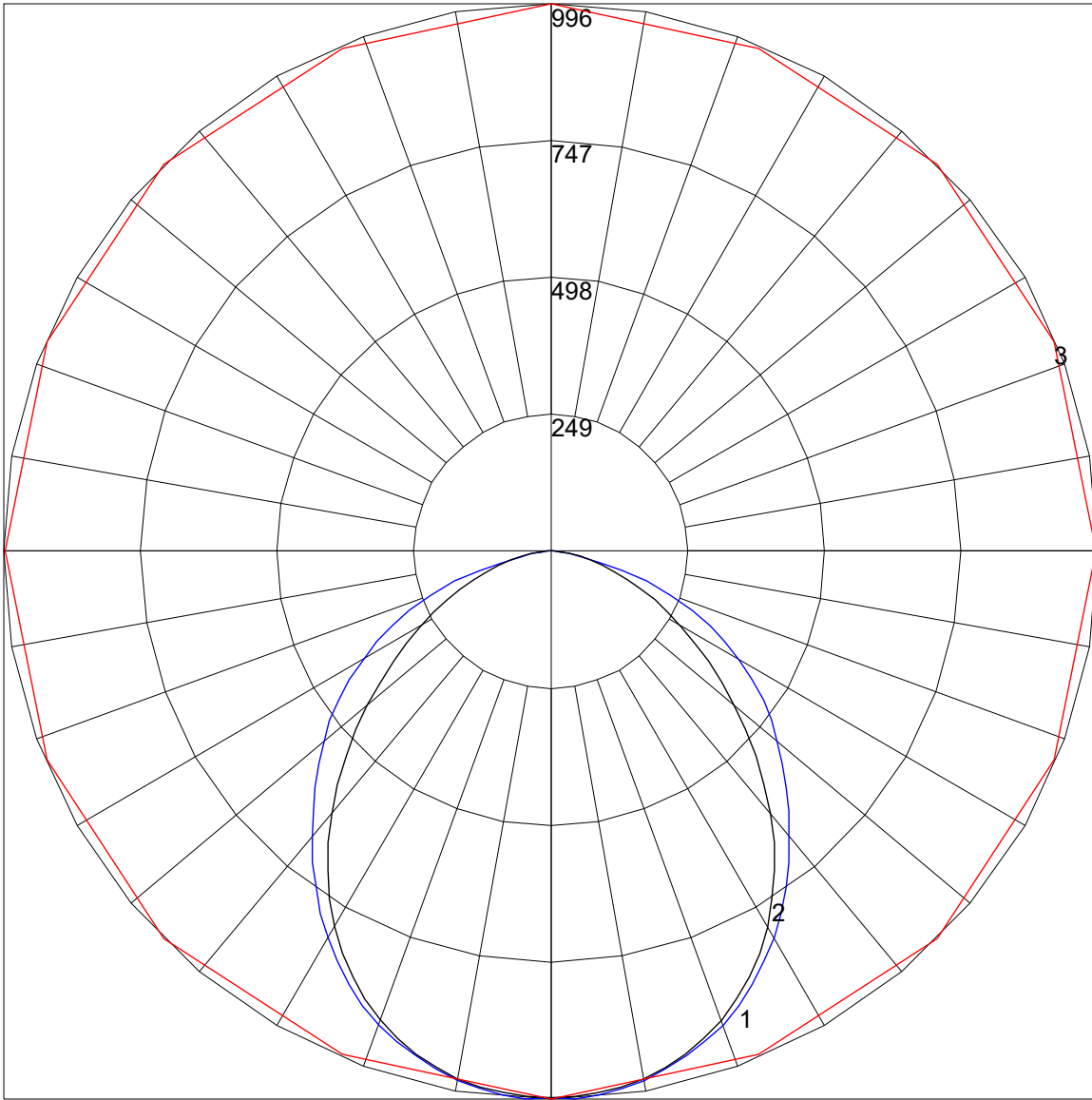
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	44	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	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 996.286 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.)