



IES INDOOR REPORT
PHOTOMETRIC FILENAME : R1L24LFA40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1511031271-007
 [TESTLAB]Intertek
 [ISSUEDATE]01/12/2017
 [LUMCAT]R1L24LFA40/S1L24LFA40
 [LUMINAIRE]LED RECESSED/SURFACE 2X4
 [LAMP]LED
 [LAMPCAT]NA. LUMINAIRE OUTPUT = 4146 LMS
 [OTHER]120.06 VAC, 333.79 mA, 41.3 W, 0.9979 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	4146
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	41.3
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)	3.92 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	1769	2021	2199
55	1489	1898	2160
65	1205	1851	2132
75	897	1808	1796
85	560	1012	554

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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	1564.733	1564.733	1564.733	1564.733	1564.733
2.5	1560.276	1565.921	1564.436	1566.021	1557.008
5.0	1553.839	1559.286	1558.890	1560.375	1552.353
7.5	1543.935	1548.589	1549.481	1551.759	1544.925
10.0	1529.772	1534.427	1535.219	1539.676	1533.139
12.5	1511.251	1515.708	1518.184	1523.631	1518.481
15.0	1487.284	1492.137	1498.079	1504.418	1500.753
17.5	1457.374	1464.009	1472.725	1482.728	1479.063
20.0	1422.809	1431.623	1443.607	1456.284	1455.195
22.5	1384.876	1394.879	1411.221	1426.077	1426.275
25.0	1340.407	1354.273	1373.586	1392.205	1393.988
27.5	1290.689	1306.635	1331.989	1355.164	1359.027
30.0	1235.623	1254.342	1286.530	1313.964	1320.401
32.5	1175.110	1197.394	1238.000	1271.079	1279.597
35.0	1111.229	1137.474	1185.707	1223.936	1235.623
37.5	1044.278	1074.782	1130.839	1173.822	1188.381
40.0	975.148	1011.198	1072.405	1121.232	1139.257
42.5	904.730	946.624	1012.684	1066.958	1088.450
45.0	834.313	881.654	953.260	1013.179	1037.048
47.5	765.678	817.674	894.331	960.193	984.458
50.0	698.727	754.487	836.888	907.504	931.372
52.5	633.064	691.992	780.336	855.607	878.485
55.0	569.579	630.885	726.161	804.700	826.588
57.5	508.372	571.065	673.967	754.685	774.493
60.0	450.137	511.938	622.466	704.571	718.436
62.5	393.981	454.495	571.956	651.287	658.814
65.0	339.707	398.834	521.941	594.141	601.173
67.5	287.909	346.145	470.341	537.391	543.234
70.0	239.083	296.724	416.463	479.453	479.453
72.5	194.217	249.977	364.170	415.473	402.994
75.0	154.800	206.498	312.174	338.915	310.094
77.5	119.343	165.793	256.316	249.086	213.035
80.0	86.957	126.375	193.821	158.761	130.634
82.5	57.938	88.839	124.592	86.462	71.507
85.0	32.584	51.303	58.830	37.239	32.188
87.5	11.192	14.262	10.696	7.527	7.329
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	0.099	0.000	0.000
170.0	0.000	0.000	0.000	0.099	0.099
172.5	0.000	0.000	0.099	0.099	0.099
175.0	0.000	0.000	0.000	0.000	0.099
177.5	0.000	0.000	0.099	0.000	0.099
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	570.17	N.A.	13.80
0-30	1201.42	N.A.	29.00
0-40	1938.75	N.A.	46.80
0-60	3309.46	N.A.	79.80
0-80	4086.14	N.A.	98.60
0-90	4145.94	N.A.	100.00
10-90	3997.95	N.A.	96.40
20-40	1368.58	N.A.	33.00
20-50	2098.99	N.A.	50.60
40-70	1862.33	N.A.	44.90
60-80	776.68	N.A.	18.70
70-80	285.06	N.A.	6.90
80-90	59.80	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	0.01	N.A.	0.00
110-180	0.01	N.A.	0.00
0-180	4145.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.99
10-20	422.17
20-30	631.25
30-40	737.33
40-50	730.40
50-60	640.31
60-70	491.62
70-80	285.06
80-90	59.80
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

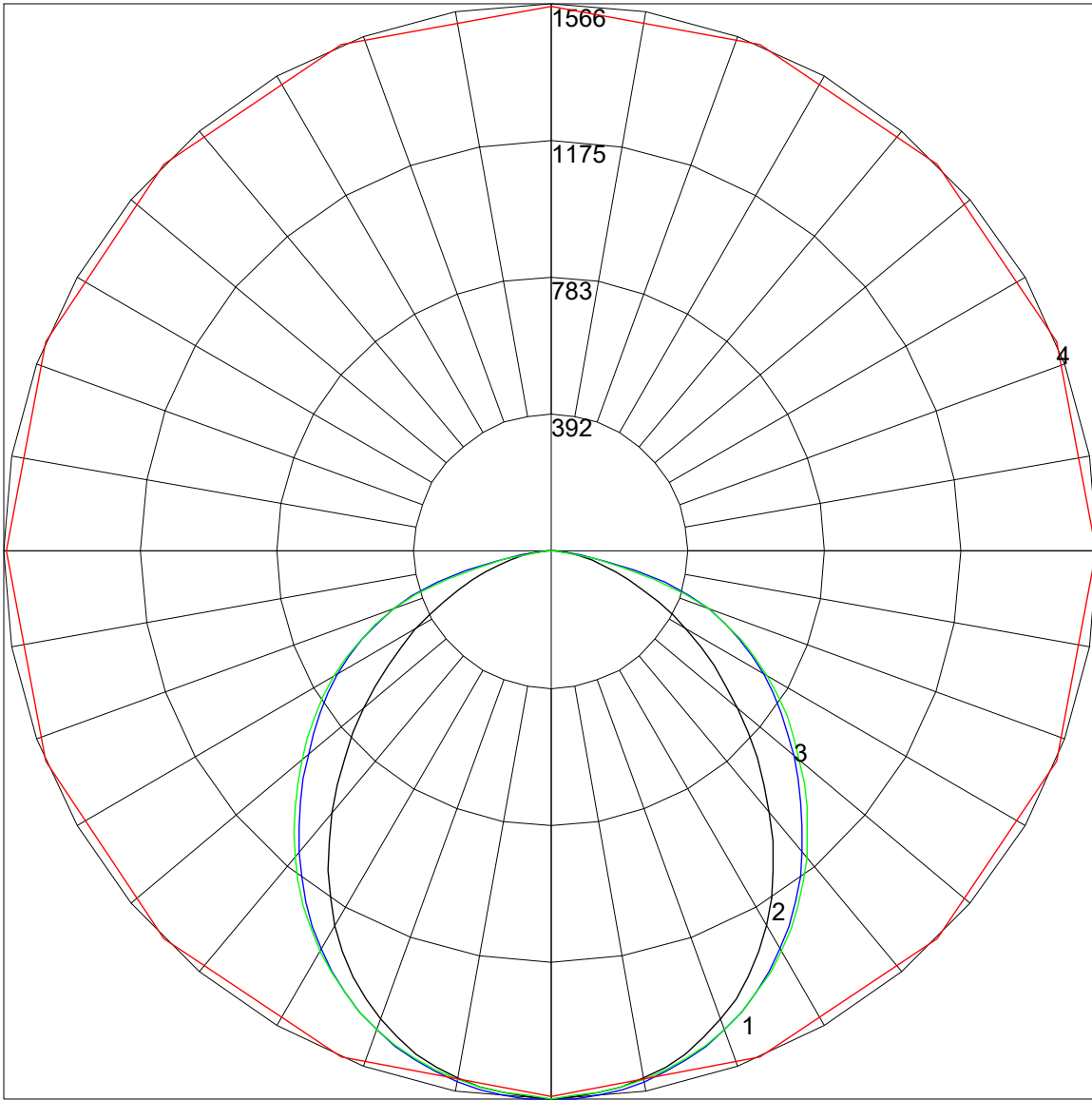
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1566.021 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (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.)