



IES INDOOR REPORT
PHOTOMETRIC FILENAME : R2L24LFA40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1411031240-007P1
 [TESTLAB]Intertek
 [ISSUE DATE]11/10/2014
 [LUMCAT]1411031240-007 MOD: R2L24LFA40/S2L24LFA40
 [LUMINAIRE]LED RECESSED/SURFACE 2X4
 [LAMP]LED
 [LAMP CAT]NA. LUMINAIRE OUTPUT = 4433LMS
 [OTHER]120.06 VAC, 333.79 mA, 39.989 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	4433
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	40
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	1891	2161	2351
55	1592	2029	2310
65	1288	1980	2280
75	959	1933	1920
85	599	1082	592

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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	1673.114	1673.114	1673.114	1673.114	1673.114
2.5	1668.349	1674.385	1672.796	1674.491	1664.854
5.0	1661.465	1667.290	1666.866	1668.455	1659.877
7.5	1650.875	1655.852	1656.806	1659.241	1651.934
10.0	1635.731	1640.709	1641.556	1646.321	1639.332
12.5	1615.928	1620.694	1623.341	1629.166	1623.659
15.0	1590.300	1595.489	1601.843	1608.621	1604.703
17.5	1558.319	1565.414	1574.733	1585.429	1581.511
20.0	1521.359	1530.785	1543.598	1557.154	1555.989
22.5	1480.800	1491.496	1508.969	1524.854	1525.066
25.0	1433.251	1448.077	1468.727	1488.636	1490.543
27.5	1380.089	1397.139	1424.249	1449.030	1453.160
30.0	1321.208	1341.224	1375.641	1404.975	1411.859
32.5	1256.504	1280.331	1323.750	1359.121	1368.228
35.0	1188.198	1216.262	1267.835	1308.712	1321.208
37.5	1116.610	1149.227	1209.166	1255.127	1270.694
40.0	1042.691	1081.239	1146.685	1198.894	1218.168
42.5	967.397	1012.192	1082.828	1140.861	1163.841
45.0	892.102	942.722	1019.288	1083.357	1108.879
47.5	818.713	874.310	956.277	1026.701	1052.646
50.0	747.125	806.746	894.855	970.362	995.884
52.5	676.913	739.923	834.386	914.870	939.333
55.0	609.031	674.583	776.459	860.438	883.841
57.5	543.585	610.619	720.650	806.958	828.138
60.0	481.316	547.397	665.582	753.373	768.199
62.5	421.270	485.975	611.573	696.398	704.447
65.0	363.237	426.459	558.093	635.294	642.813
67.5	307.851	370.121	502.919	574.613	580.862
70.0	255.643	317.276	445.310	512.662	512.662
72.5	207.670	267.292	389.394	444.251	430.907
75.0	165.522	220.802	333.797	362.390	331.573
77.5	127.610	177.277	274.069	266.339	227.791
80.0	92.980	135.128	207.246	169.758	139.682
82.5	61.952	94.992	133.222	92.451	76.460
85.0	34.841	54.856	62.905	39.818	34.418
87.5	11.967	15.250	11.437	8.048	7.837
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	0.106	0.000	0.000
170.0	0.000	0.000	0.000	0.106	0.106
172.5	0.000	0.000	0.106	0.106	0.106
175.0	0.000	0.000	0.000	0.000	0.106
177.5	0.000	0.000	0.106	0.000	0.106
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	609.66	N.A.	13.80
0-30	1284.63	N.A.	29.00
0-40	2073.04	N.A.	46.80
0-60	3538.69	N.A.	79.80
0-80	4369.17	N.A.	98.60
0-90	4433.11	N.A.	100.00
10-90	4274.87	N.A.	96.40
20-40	1463.38	N.A.	33.00
20-50	2244.37	N.A.	50.60
40-70	1991.32	N.A.	44.90
60-80	830.47	N.A.	18.70
70-80	304.81	N.A.	6.90
80-90	63.94	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	4433.12	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	158.24
10-20	451.41
20-30	674.98
30-40	788.40
40-50	780.99
50-60	684.66
60-70	525.67
70-80	304.81
80-90	63.94
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

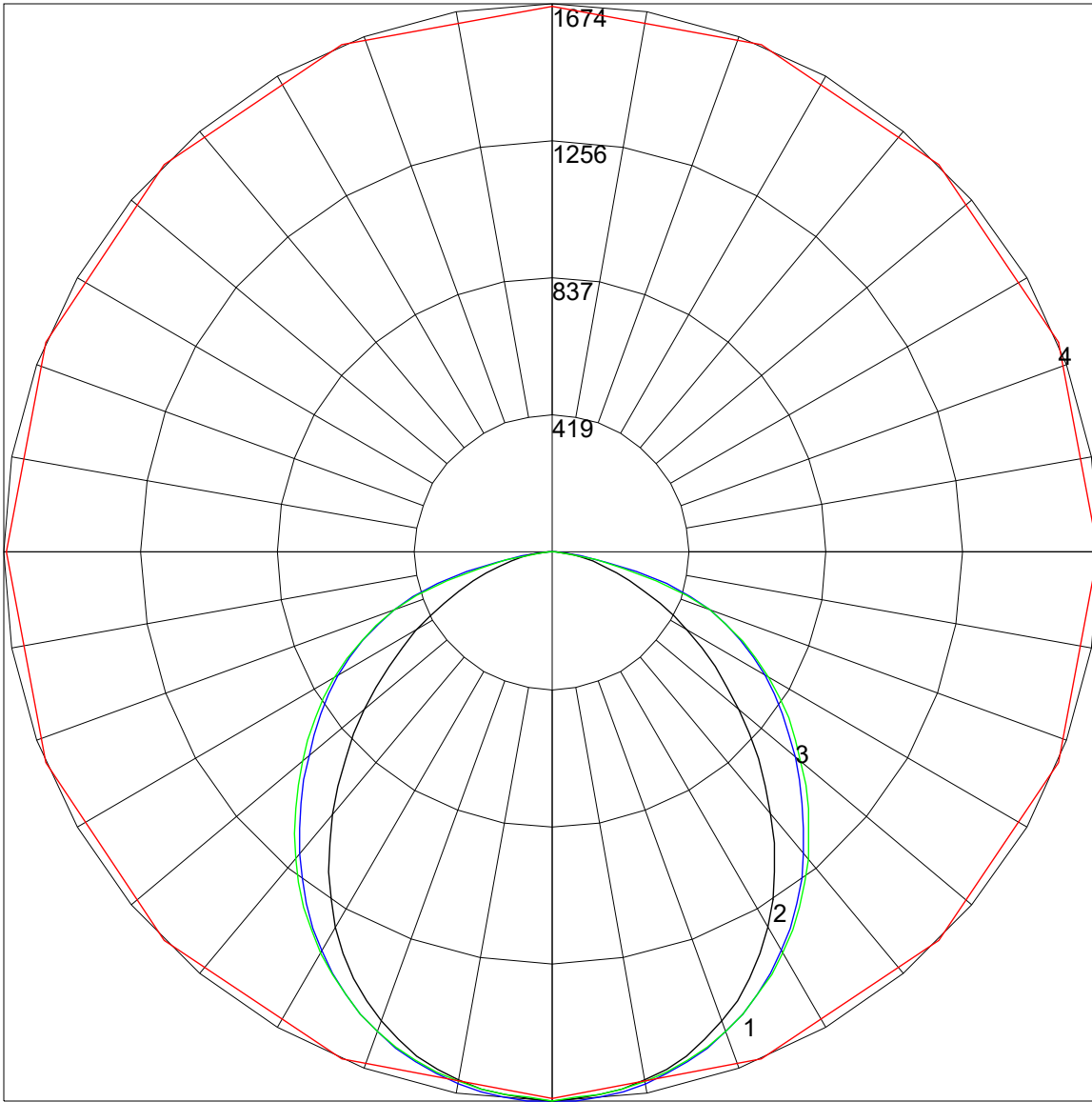
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1674.491 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.)