



IES INDOOR REPORT

PHOTOMETRIC FILENAME : R2L24LFA50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1411031240-007P2
[TESTLAB]Intertek
[ISSUEDATE]11/10/2014
[LUMCAT]1411031240-007 MOD: R2L24LFA50/S2L24LFA50
[LUMINAIRE]LED RECESSED/SURFACE 2X4
[LAMP]LED
[LAMPCAT]NA. LUMINAIRE OUTPUT = 4566 LMS
[OTHER]120.06 VAC, 333.79 mA, 39.989 W, 0.9979 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	4566
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	1948	2226	2421
55	1639	2090	2379
65	1327	2039	2348
75	987	1991	1978
85	617	1114	610

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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	1723.197	1723.197	1723.197	1723.197	1723.197
2.5	1718.289	1724.506	1722.870	1724.615	1714.690
5.0	1711.199	1717.198	1716.762	1718.398	1709.563
7.5	1700.292	1705.419	1706.400	1708.909	1701.383
10.0	1684.695	1689.822	1690.694	1695.602	1688.404
12.5	1664.299	1669.207	1671.934	1677.933	1672.261
15.0	1637.904	1643.249	1649.793	1656.773	1652.738
17.5	1604.965	1612.273	1621.871	1632.887	1628.851
20.0	1566.900	1576.607	1589.804	1603.765	1602.566
22.5	1525.126	1536.142	1554.138	1570.499	1570.717
25.0	1476.153	1491.423	1512.692	1533.197	1535.160
27.5	1421.400	1438.961	1466.882	1492.405	1496.659
30.0	1360.757	1381.372	1416.819	1447.032	1454.121
32.5	1294.116	1318.656	1363.375	1399.804	1409.184
35.0	1223.765	1252.669	1305.786	1347.887	1360.757
37.5	1150.034	1183.628	1245.361	1292.698	1308.731
40.0	1073.903	1113.605	1181.010	1234.782	1254.632
42.5	996.354	1042.491	1115.241	1175.011	1198.679
45.0	918.806	970.941	1049.799	1115.786	1142.072
47.5	843.220	900.482	984.902	1057.434	1084.156
50.0	769.489	830.895	921.642	999.408	1025.694
52.5	697.175	762.072	859.363	942.256	967.451
55.0	627.262	694.776	799.701	886.194	910.298
57.5	559.856	628.898	742.221	831.113	852.927
60.0	495.723	563.783	685.505	775.924	791.194
62.5	433.880	500.522	629.879	717.244	725.534
65.0	374.110	439.225	574.799	654.311	662.055
67.5	317.066	381.200	517.973	591.814	598.249
70.0	263.295	326.774	458.639	528.008	528.008
72.5	213.886	275.293	401.050	457.549	443.806
75.0	170.476	227.411	343.789	373.238	341.498
77.5	131.429	182.583	282.273	274.311	234.610
80.0	95.763	139.173	213.450	174.839	143.863
82.5	63.806	97.836	137.210	95.218	78.749
85.0	35.884	56.498	64.788	41.010	35.448
87.5	12.325	15.706	11.780	8.289	8.071
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	0.109	0.000	0.000
170.0	0.000	0.000	0.000	0.109	0.109
172.5	0.000	0.000	0.109	0.109	0.109
175.0	0.000	0.000	0.000	0.000	0.109
177.5	0.000	0.000	0.109	0.000	0.109
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	627.91	N.A.	13.80
0-30	1323.09	N.A.	29.00
0-40	2135.09	N.A.	46.80
0-60	3644.62	N.A.	79.80
0-80	4499.95	N.A.	98.60
0-90	4565.81	N.A.	100.00
10-90	4402.83	N.A.	96.40
20-40	1507.18	N.A.	33.00
20-50	2311.56	N.A.	50.60
40-70	2050.93	N.A.	44.90
60-80	855.33	N.A.	18.70
70-80	313.93	N.A.	6.90
80-90	65.86	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	4565.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.98
10-20	464.93
20-30	695.18
30-40	812.00
40-50	804.37
50-60	705.16
60-70	541.40
70-80	313.93
80-90	65.86
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

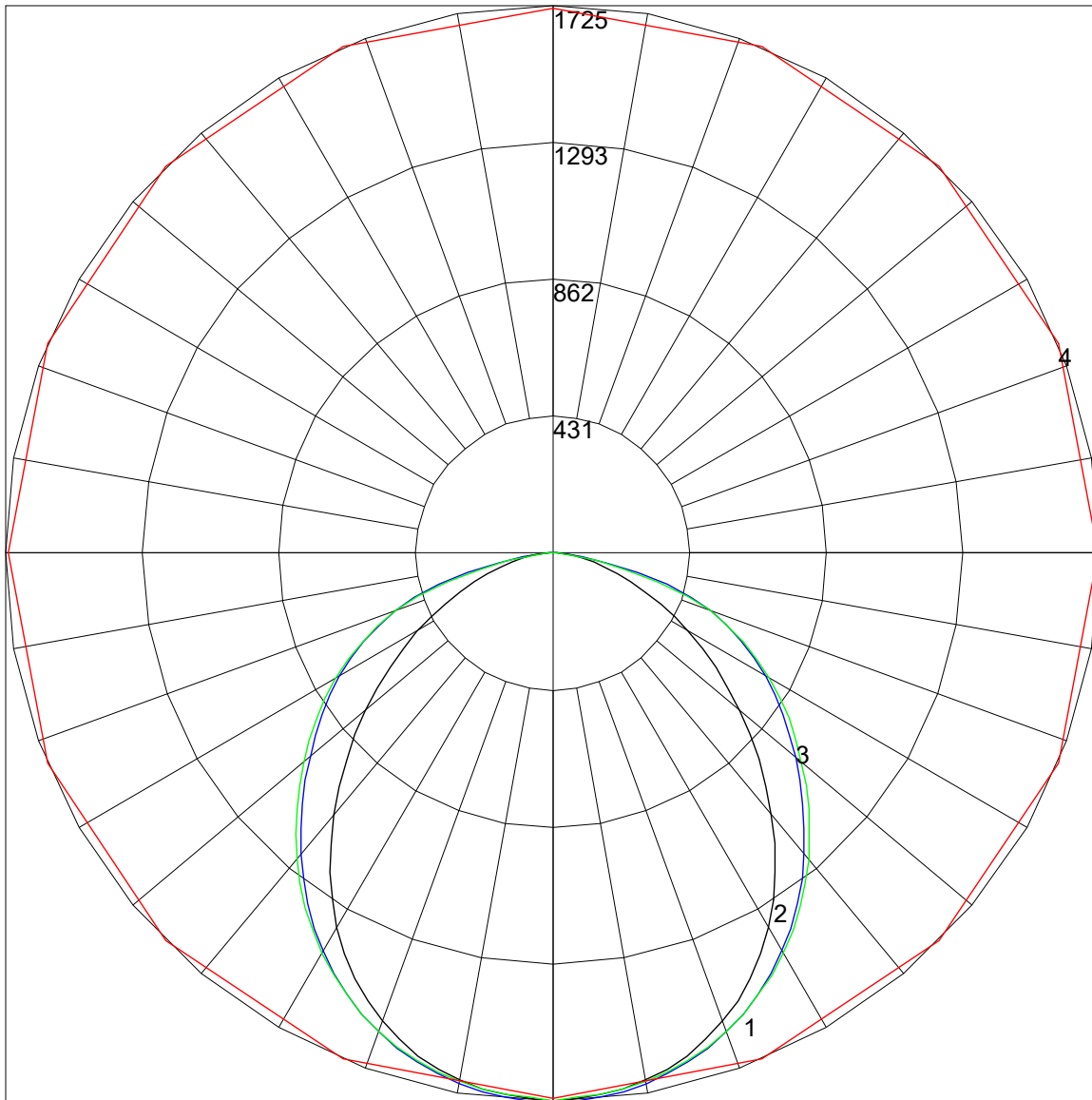
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1724.615 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.)