



IES INDOOR REPORT
PHOTOMETRIC FILENAME : R2L22LFA50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1411031240-004P2
[TESTLAB]Intertek
[ISSUEDATE]11/10/2017
[LUMCAT]1411031240-004 MOD: R2L22LFA50/S2L22LFA50
[LUMINAIRE]LED RECESSED/SURFACE 2X2
[LAMP]LED
[LAMPCAT]NA. LUMINAIRE OUTPUT = 2848 LMS
[OTHER]120.02 VAC, 223.20 mA, 26.691 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	2849
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	26.7
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	2444	2833	3123
55	2002	2637	3080
65	1638	2559	3040
75	1290	2465	2429
85	812	1338	782

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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	1092.749	1092.749	1092.749	1092.749	1092.749
2.5	1091.446	1096.224	1093.835	1089.926	1088.515
5.0	1089.492	1094.378	1091.663	1086.343	1085.040
7.5	1083.411	1087.863	1087.320	1081.457	1079.828
10.0	1067.016	1073.965	1076.462	1073.639	1071.467
12.5	1050.403	1056.701	1063.541	1063.324	1060.827
15.0	1031.401	1038.568	1045.408	1050.729	1047.906
17.5	1010.011	1017.829	1026.950	1035.093	1033.899
20.0	984.495	994.050	1005.994	1017.286	1017.395
22.5	954.635	965.928	982.215	995.136	996.982
25.0	921.844	934.114	954.201	969.619	974.288
27.5	885.687	899.151	923.473	943.126	950.075
30.0	846.381	861.908	890.682	914.135	922.713
32.5	805.012	822.168	856.371	884.601	894.482
35.0	760.820	779.713	819.128	851.484	862.885
37.5	713.914	735.087	779.930	816.196	828.683
40.0	665.378	689.266	738.887	779.062	793.394
42.5	615.431	642.576	696.541	741.059	757.563
45.0	564.725	596.756	654.520	702.947	721.623
47.5	514.669	551.478	612.608	665.053	685.466
50.0	466.134	507.069	571.782	627.158	648.657
52.5	419.445	463.745	532.151	589.915	612.283
55.0	375.252	422.050	494.148	553.867	577.211
57.5	333.992	382.202	458.208	518.578	542.466
60.0	295.772	344.199	422.811	483.833	504.246
62.5	259.398	307.281	388.065	445.612	462.008
65.0	226.172	271.016	353.319	404.352	419.770
67.5	193.924	235.619	317.922	363.960	376.664
70.0	163.630	202.393	281.114	323.460	329.649
72.5	135.074	170.796	245.065	278.508	272.970
75.0	109.123	140.937	208.474	224.978	205.433
77.5	85.344	112.163	169.276	163.413	139.308
80.0	62.976	84.475	126.387	104.563	85.670
82.5	41.695	57.656	80.349	58.307	47.992
85.0	23.128	31.597	38.112	26.059	22.259
87.5	7.601	7.926	7.818	6.189	5.538
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	397.91	N.A.	14.00
0-30	835.85	N.A.	29.30
0-40	1345.22	N.A.	47.20
0-60	2282.69	N.A.	80.10
0-80	2808.96	N.A.	98.60
0-90	2848.58	N.A.	100.00
10-90	2745.04	N.A.	96.40
20-40	947.32	N.A.	33.30
20-50	1448.6	N.A.	50.90
40-70	1272.05	N.A.	44.70
60-80	526.27	N.A.	18.50
70-80	191.69	N.A.	6.70
80-90	39.62	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	2848.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.54
10-20	294.37
20-30	437.95
30-40	509.37
40-50	501.28
50-60	436.19
60-70	334.58
70-80	191.69
80-90	39.62
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

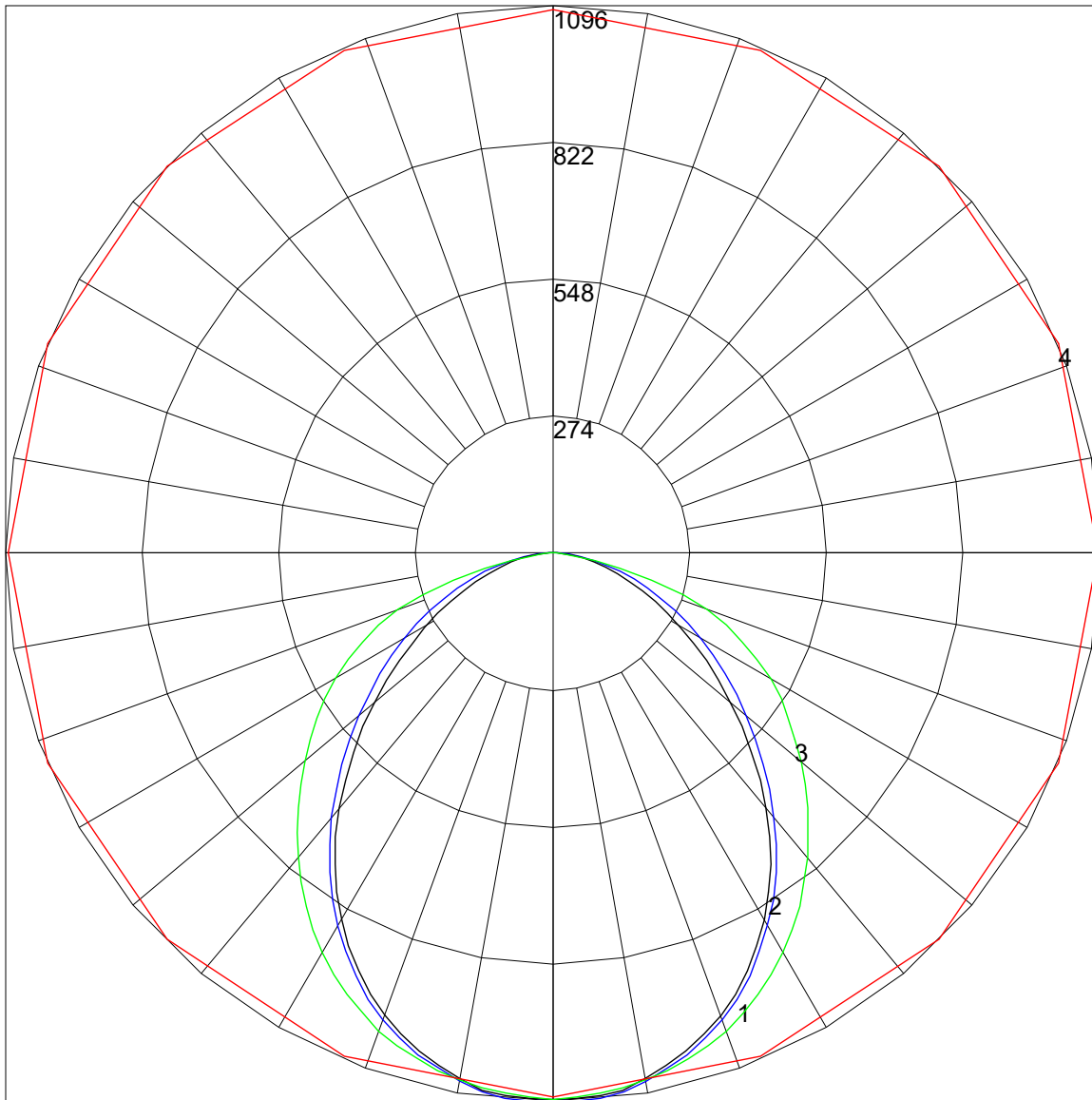
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	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 = 1096.224 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.)