



IES INDOOR REPORT

PHOTOMETRIC FILENAME : R2L24MFA30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1411031240-007P3
[TESTLAB]Intertek
[ISSUEDATE]11/10/2014
[LUMCAT]1411031240-007 MOD: R2L24MFA30/S2L24MFA30
[LUMINAIRE]LED RECESSED/SURFACE 2X4
[LAMP]LED
[LAMPCAT]NA. LUMINAIRE OUTPUT = 5838LMS
[OTHER]120.06 VAC, 57.5 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	5838
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	57.5
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	2491	2846	3096
55	2096	2673	3042
65	1697	2607	3003
75	1263	2546	2529
85	789	1425	780

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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	2203.487	2203.487	2203.487	2203.487	2203.487
2.5	2197.210	2205.160	2203.068	2205.300	2192.608
5.0	2188.145	2195.816	2195.258	2197.350	2186.053
7.5	2174.198	2180.753	2182.008	2185.216	2175.593
10.0	2154.254	2160.809	2161.925	2168.201	2158.996
12.5	2128.173	2134.449	2137.936	2145.607	2138.354
15.0	2094.421	2101.255	2109.623	2118.549	2113.389
17.5	2052.301	2061.646	2073.919	2088.005	2082.845
20.0	2003.626	2016.039	2032.915	2050.767	2049.233
22.5	1950.209	1964.296	1987.308	2008.229	2008.508
25.0	1887.587	1907.113	1934.309	1960.530	1963.040
27.5	1817.573	1840.028	1875.732	1908.368	1913.807
30.0	1740.028	1766.388	1811.715	1850.349	1859.414
32.5	1654.812	1686.192	1743.375	1789.958	1801.952
35.0	1564.853	1601.813	1669.735	1723.570	1740.028
37.5	1470.572	1513.528	1592.469	1652.998	1673.501
40.0	1373.222	1423.989	1510.181	1578.940	1604.323
42.5	1274.058	1333.054	1426.081	1502.510	1532.775
45.0	1174.895	1241.562	1342.399	1426.778	1460.390
47.5	1078.243	1151.464	1259.414	1352.162	1386.332
50.0	983.961	1062.482	1178.522	1277.964	1311.576
52.5	891.492	974.477	1098.884	1204.881	1237.099
55.0	802.092	888.424	1022.594	1133.194	1164.017
57.5	715.900	804.184	949.093	1062.761	1090.655
60.0	633.891	720.920	876.569	992.190	1011.715
62.5	554.812	640.028	805.439	917.155	927.754
65.0	478.382	561.646	735.007	836.681	846.583
67.5	405.439	487.448	662.343	756.764	764.993
70.0	336.681	417.852	586.471	675.174	675.174
72.5	273.501	352.022	512.831	585.077	567.503
75.0	217.992	290.795	439.609	477.266	436.681
77.5	168.061	233.473	360.948	350.767	300.000
80.0	122.455	177.964	272.943	223.570	183.961
82.5	81.590	125.105	175.453	121.757	100.697
85.0	45.886	72.245	82.845	52.441	45.328
87.5	15.760	20.084	15.063	10.600	10.321
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	0.139	0.000	0.000
170.0	0.000	0.000	0.000	0.139	0.139
172.5	0.000	0.000	0.139	0.139	0.139
175.0	0.000	0.000	0.000	0.000	0.139
177.5	0.000	0.000	0.139	0.000	0.139
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	802.92	N.A.	13.80
0-30	1691.86	N.A.	29.00
0-40	2730.18	N.A.	46.80
0-60	4660.45	N.A.	79.80
0-80	5754.18	N.A.	98.60
0-90	5838.39	N.A.	100.00
10-90	5629.99	N.A.	96.40
20-40	1927.27	N.A.	33.00
20-50	2955.83	N.A.	50.60
40-70	2622.57	N.A.	44.90
60-80	1093.73	N.A.	18.70
70-80	401.43	N.A.	6.90
80-90	84.21	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	5838.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	208.41
10-20	594.51
20-30	888.94
30-40	1038.32
40-50	1028.57
50-60	901.70
60-70	692.30
70-80	401.43
80-90	84.21
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	0.01

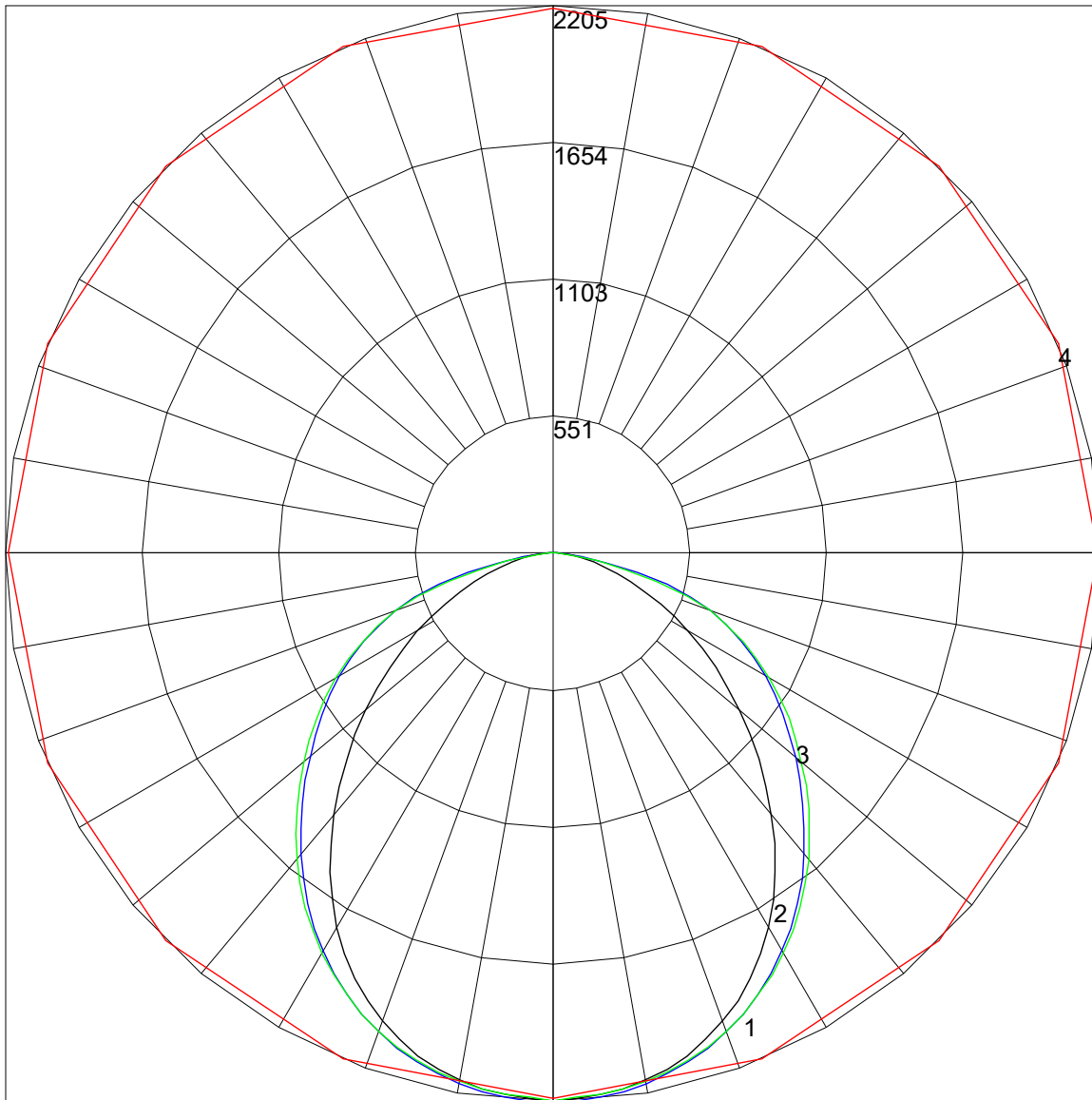
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2205.3 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.)