



IES INDOOR REPORT
PHOTOMETRIC FILENAME : R2L24LFA30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1411031240-007
[TESTLAB]Intertek
[ISSUE DATE]11/10/2014
[LUMCAT]1411031240-007 MOD: R2L24LFA30/S2L24LFA30
[LUMINAIRE]LED RECESSED/SURFACE 2X4
[LAMP]LED
[LAMPCAT]NA. LUMINAIRE OUTPUT = 4220 LMS
[OTHER]120.06 VAC, 333.79 mA, 39.989 W, 0.9979 PF
[MANUFAC] LAMAR LIGHTING CO., INC.
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] Indoor
[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4220
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	1801	2057	2238
55	1515	1932	2199
65	1227	1885	2171
75	913	1841	1828
85	571	1030	564

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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	1592.855	1592.855	1592.855	1592.855	1592.855
2.5	1588.318	1594.065	1592.553	1594.166	1584.991
5.0	1581.765	1587.310	1586.907	1588.419	1580.253
7.5	1571.683	1576.422	1577.329	1579.648	1572.691
10.0	1557.266	1562.004	1562.811	1567.348	1560.694
12.5	1538.412	1542.949	1545.470	1551.015	1545.772
15.0	1514.014	1518.954	1525.003	1531.456	1527.726
17.5	1483.566	1490.321	1499.193	1509.376	1505.646
20.0	1448.380	1457.353	1469.552	1482.457	1481.348
22.5	1409.766	1419.949	1436.584	1451.707	1451.909
25.0	1364.498	1378.613	1398.273	1417.227	1419.042
27.5	1313.886	1330.118	1355.928	1379.520	1383.452
30.0	1257.830	1276.885	1309.652	1337.579	1344.132
32.5	1196.229	1218.914	1260.250	1293.924	1302.594
35.0	1131.200	1157.918	1207.017	1245.934	1257.830
37.5	1063.046	1094.099	1151.163	1194.919	1209.739
40.0	992.674	1029.372	1091.679	1141.383	1159.733
42.5	920.991	963.638	1030.885	1086.134	1108.012
45.0	849.308	897.500	970.393	1031.389	1055.686
47.5	779.439	832.370	910.405	977.450	1002.151
50.0	711.285	768.047	851.929	923.814	948.111
52.5	644.441	704.429	794.361	870.984	894.273
55.0	579.816	642.223	739.212	819.163	841.444
57.5	517.509	581.328	686.080	768.248	788.412
60.0	458.227	521.139	633.654	717.234	731.348
62.5	401.062	462.663	582.236	662.992	670.655
65.0	345.813	406.002	531.321	604.819	611.977
67.5	293.084	352.366	478.794	547.049	552.998
70.0	243.379	302.057	423.948	488.070	488.070
72.5	197.708	254.470	370.715	422.940	410.237
75.0	157.582	210.210	317.785	345.006	315.667
77.5	121.488	168.773	260.922	253.562	216.864
80.0	88.520	128.646	197.305	161.614	132.982
82.5	58.980	90.436	126.832	88.016	72.792
85.0	33.170	52.225	59.887	37.908	32.767
87.5	11.393	14.518	10.889	7.662	7.461
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	0.101	0.000	0.000
170.0	0.000	0.000	0.000	0.101	0.101
172.5	0.000	0.000	0.101	0.101	0.101
175.0	0.000	0.000	0.000	0.000	0.101
177.5	0.000	0.000	0.101	0.000	0.101
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	580.41	N.A.	13.80
0-30	1223.01	N.A.	29.00
0-40	1973.59	N.A.	46.80
0-60	3368.94	N.A.	79.80
0-80	4159.58	N.A.	98.60
0-90	4220.46	N.A.	100.00
10-90	4069.8	N.A.	96.40
20-40	1393.18	N.A.	33.00
20-50	2136.71	N.A.	50.60
40-70	1895.8	N.A.	44.90
60-80	790.64	N.A.	18.70
70-80	290.18	N.A.	6.90
80-90	60.88	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	4220.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.65
10-20	429.76
20-30	642.60
30-40	750.58
40-50	743.53
50-60	651.82
60-70	500.45
70-80	290.18
80-90	60.88
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

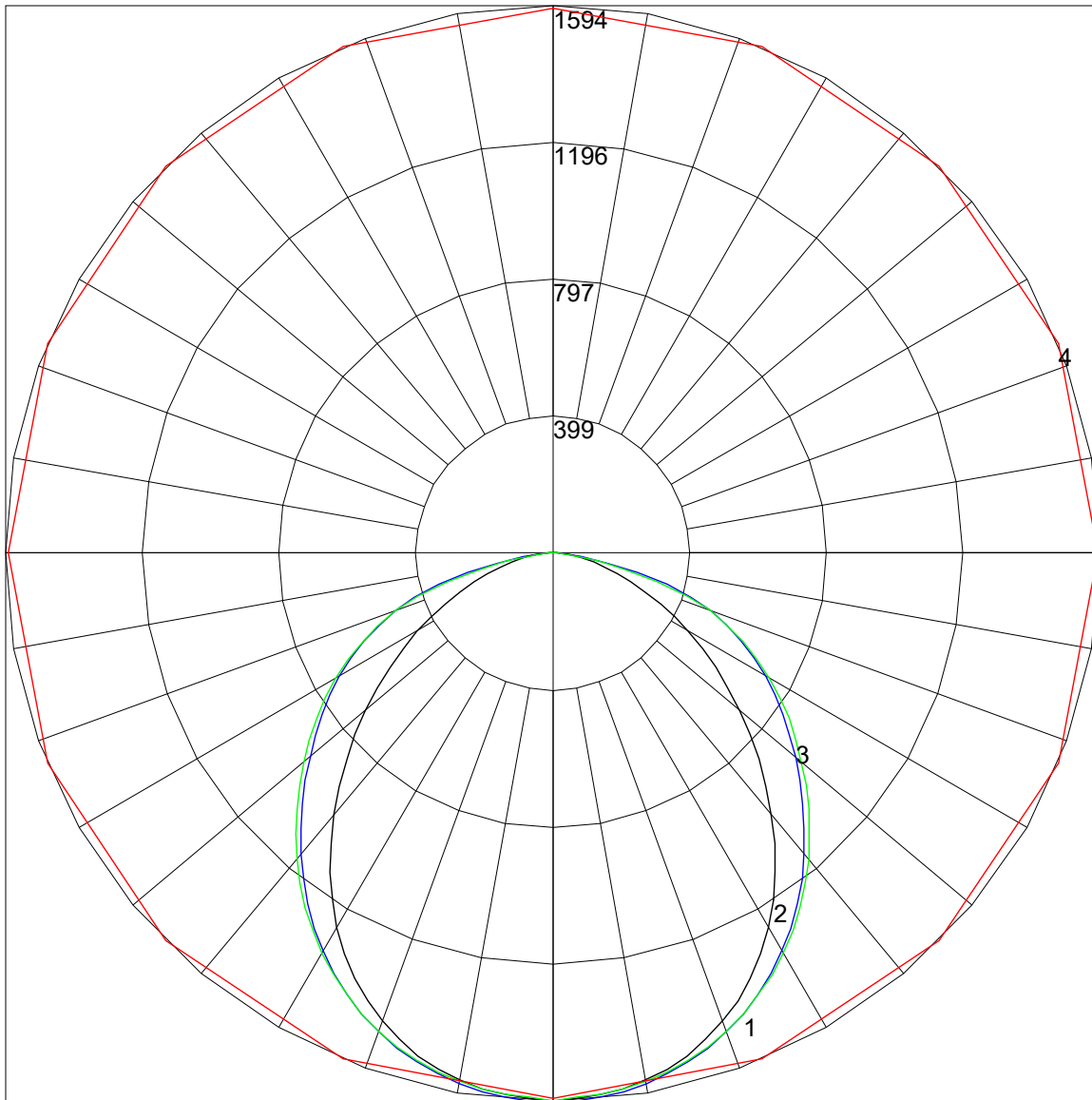
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1594.166 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.)