



IES INDOOR REPORT

PHOTOMETRIC FILENAME : R2L24HFA30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1411031240-007P3
[TESTLAB]Intertek
[ISSUEDATE]11/10/2014
[LUMCAT]1411031240-007 MOD: R2L24HFA30/S2L24HFA30
[LUMINAIRE]LED RECESSED/SURFACE 2X4
[LAMP]LED
[LAMPCAT]NA. LUMINAIRE OUTPUT = 7909 LMS
[OTHER]120.06 VAC, 83.9 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	7909
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	83.9
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	3374	3855	4194
55	2840	3621	4121
65	2299	3532	4068
75	1710	3449	3426
85	1069	1930	1056

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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	2985.063	2985.063	2985.063	2985.063	2985.063
2.5	2976.561	2987.330	2984.496	2987.519	2970.326
5.0	2964.280	2974.671	2973.916	2976.750	2961.446
7.5	2945.386	2954.266	2955.966	2960.312	2947.275
10.0	2918.367	2927.247	2928.759	2937.261	2924.791
12.5	2883.035	2891.538	2896.261	2906.653	2896.828
15.0	2837.312	2846.570	2857.906	2869.999	2863.008
17.5	2780.252	2792.911	2809.538	2828.621	2821.630
20.0	2714.312	2731.128	2753.989	2778.174	2776.095
22.5	2641.948	2661.031	2692.206	2720.547	2720.925
25.0	2557.114	2583.566	2620.409	2655.930	2659.331
27.5	2462.266	2492.685	2541.054	2585.266	2592.635
30.0	2357.215	2392.925	2454.331	2506.667	2518.948
32.5	2241.773	2284.285	2361.750	2424.856	2441.105
35.0	2119.907	2169.976	2261.990	2334.921	2357.215
37.5	1992.183	2050.377	2157.317	2239.317	2267.091
40.0	1860.303	1929.077	2045.842	2138.990	2173.377
42.5	1725.967	1805.889	1931.912	2035.451	2076.451
45.0	1591.631	1681.944	1818.548	1932.856	1978.391
47.5	1460.695	1559.889	1706.128	1831.773	1878.064
50.0	1332.972	1439.345	1596.543	1731.257	1776.792
52.5	1207.704	1320.124	1488.658	1632.253	1675.898
55.0	1086.594	1203.548	1385.308	1535.138	1576.893
57.5	969.829	1089.428	1285.737	1439.723	1477.511
60.0	858.732	976.631	1187.488	1344.119	1370.571
62.5	751.603	867.046	1091.129	1242.469	1256.829
65.0	648.064	760.861	995.714	1133.451	1146.866
67.5	549.249	660.345	897.276	1025.188	1036.336
70.0	456.101	566.064	794.493	914.659	914.659
72.5	370.511	476.885	694.732	792.603	768.797
75.0	295.313	393.940	595.539	646.553	591.571
77.5	227.673	316.286	488.977	475.184	406.410
80.0	165.889	241.087	369.756	302.871	249.212
82.5	110.530	169.479	237.687	164.945	136.415
85.0	62.161	97.871	112.230	71.041	61.406
87.5	21.350	27.207	20.406	14.359	13.982
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	0.189	0.000	0.000
170.0	0.000	0.000	0.000	0.189	0.189
172.5	0.000	0.000	0.189	0.189	0.189
175.0	0.000	0.000	0.000	0.000	0.189
177.5	0.000	0.000	0.189	0.000	0.189
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	1087.71	N.A.	13.80
0-30	2291.96	N.A.	29.00
0-40	3698.58	N.A.	46.80
0-60	6313.51	N.A.	79.80
0-80	7795.19	N.A.	98.60
0-90	7909.27	N.A.	100.00
10-90	7626.94	N.A.	96.40
20-40	2610.87	N.A.	33.00
20-50	4004.27	N.A.	50.60
40-70	3552.79	N.A.	44.90
60-80	1481.68	N.A.	18.70
70-80	543.81	N.A.	6.90
80-90	114.08	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	7909.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	282.33
10-20	805.38
20-30	1204.25
30-40	1406.62
40-50	1393.4
50-60	1221.53
60-70	937.86
70-80	543.81
80-90	114.08
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

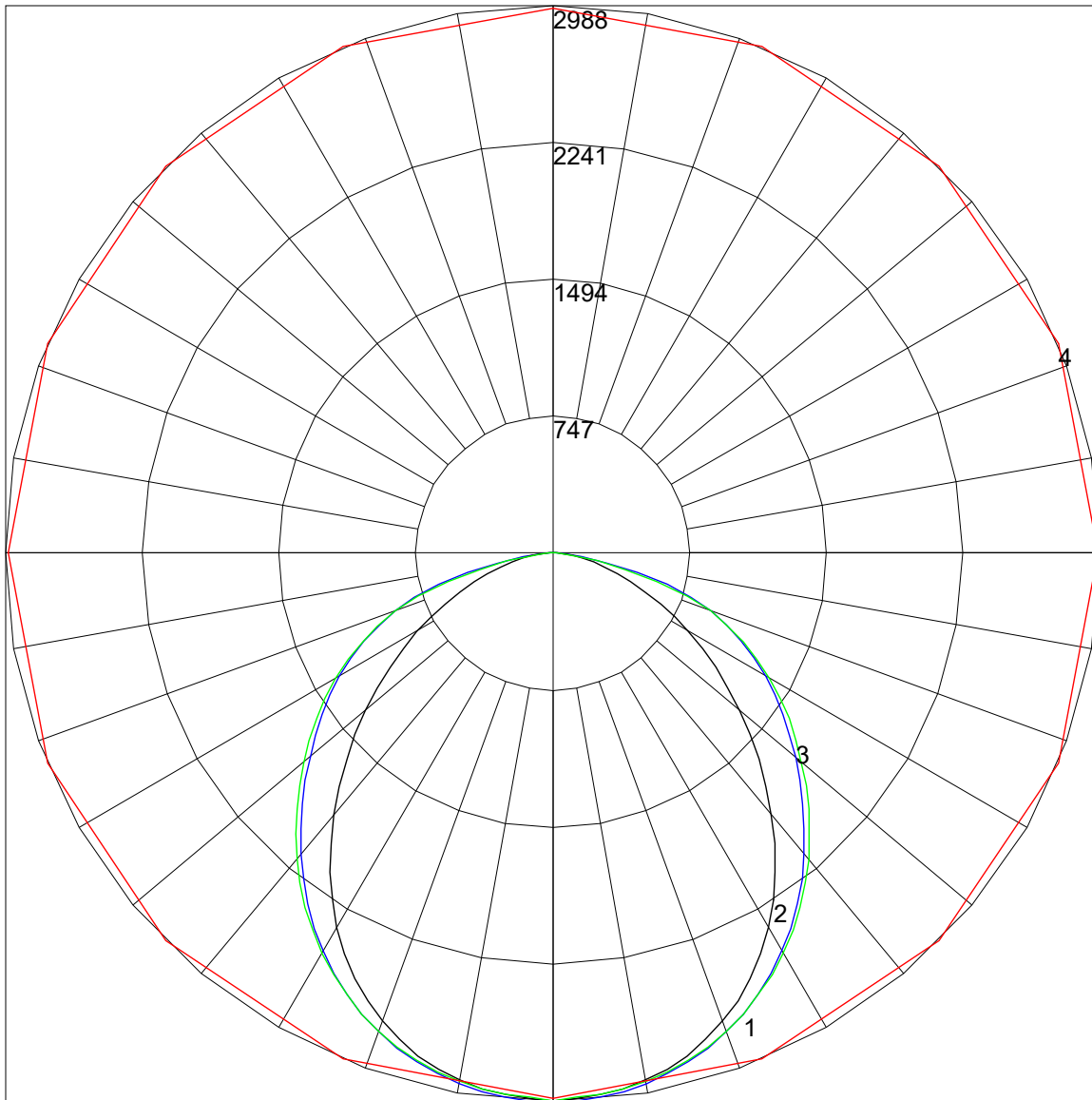
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2987.519 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.)