



IES INDOOR REPORT
PHOTOMETRIC FILENAME : R1L24HFA40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1511031271-007P2
 [TESTLAB]Intertek
 [ISSUEDATE]01/12/2017
 [LUMCAT]R1L24HFA40/S1L24HFA40
 [LUMINAIRE]LED RECESSED/SURFACE 2X4
 [LAMP]LED
 [LAMPCAT]NA. LUMINAIRE OUTPUT = 8293LMS
 [OTHER]120.06 VAC, 82.7 W, 0.9979 PF
 [MANUFAC] LAMAR LIGHTING CO., INC.
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor
 [_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8293
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	82.7
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)	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	3538	4042	4398
55	2978	3796	4321
65	2410	3703	4266
75	1793	3617	3593
85	1121	2024	1107

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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	3129.940	3129.940	3129.940	3129.940	3129.940
2.5	3121.025	3132.317	3129.346	3132.515	3114.487
5.0	3108.148	3119.044	3118.251	3121.223	3105.176
7.5	3088.337	3097.648	3099.431	3103.987	3090.318
10.0	3060.007	3069.318	3070.903	3079.818	3066.743
12.5	3022.960	3031.875	3036.828	3047.724	3037.422
15.0	2975.018	2984.725	2996.612	3009.291	3001.961
17.5	2915.189	2928.462	2945.896	2965.905	2958.575
20.0	2846.048	2863.680	2887.651	2913.009	2910.830
22.5	2770.172	2790.181	2822.869	2852.586	2852.982
25.0	2681.221	2708.956	2747.588	2784.832	2788.398
27.5	2581.769	2613.665	2664.381	2710.739	2718.465
30.0	2471.620	2509.063	2573.449	2628.325	2641.202
32.5	2350.575	2395.150	2476.375	2542.544	2559.581
35.0	2222.794	2275.293	2371.773	2448.243	2471.620
37.5	2088.872	2149.890	2262.020	2348.000	2377.122
40.0	1950.591	2022.703	2145.135	2242.803	2278.859
42.5	1809.735	1893.535	2025.675	2134.239	2177.229
45.0	1668.879	1763.575	1906.809	2026.665	2074.410
47.5	1531.588	1635.596	1788.933	1920.676	1969.213
50.0	1397.666	1509.202	1674.029	1815.282	1863.026
52.5	1266.319	1384.195	1560.909	1711.472	1757.236
55.0	1139.331	1261.961	1452.542	1609.644	1653.426
57.5	1016.899	1142.302	1348.139	1509.598	1549.220
60.0	900.410	1024.031	1245.121	1409.355	1437.090
62.5	788.082	909.127	1144.085	1302.771	1317.828
65.0	679.517	797.789	1044.040	1188.462	1202.528
67.5	575.906	692.394	940.824	1074.945	1086.633
70.0	478.238	593.538	833.053	959.050	959.050
72.5	388.494	500.030	728.450	831.071	806.110
75.0	309.646	413.059	624.443	677.932	620.282
77.5	238.723	331.636	512.709	498.247	426.135
80.0	173.941	252.788	387.701	317.570	261.307
82.5	115.894	177.705	249.222	172.950	143.035
85.0	65.178	102.621	117.677	74.489	64.386
87.5	22.386	28.528	21.396	15.056	14.660
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	0.198	0.000	0.000
170.0	0.000	0.000	0.000	0.198	0.198
172.5	0.000	0.000	0.198	0.198	0.198
175.0	0.000	0.000	0.000	0.000	0.198
177.5	0.000	0.000	0.198	0.000	0.198
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	1140.5	N.A.	13.80
0-30	2403.2	N.A.	29.00
0-40	3878.09	N.A.	46.80
0-60	6619.93	N.A.	79.80
0-80	8173.52	N.A.	98.60
0-90	8293.14	N.A.	100.00
10-90	7997.11	N.A.	96.40
20-40	2737.58	N.A.	33.00
20-50	4198.61	N.A.	50.60
40-70	3725.22	N.A.	44.90
60-80	1553.59	N.A.	18.70
70-80	570.21	N.A.	6.90
80-90	119.62	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	0.01	N.A.	0.00
110-180	0.01	N.A.	0.00
0-180	8293.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	296.03
10-20	844.47
20-30	1262.7
30-40	1474.89
40-50	1461.03
50-60	1280.82
60-70	983.38
70-80	570.21
80-90	119.62
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	0.01

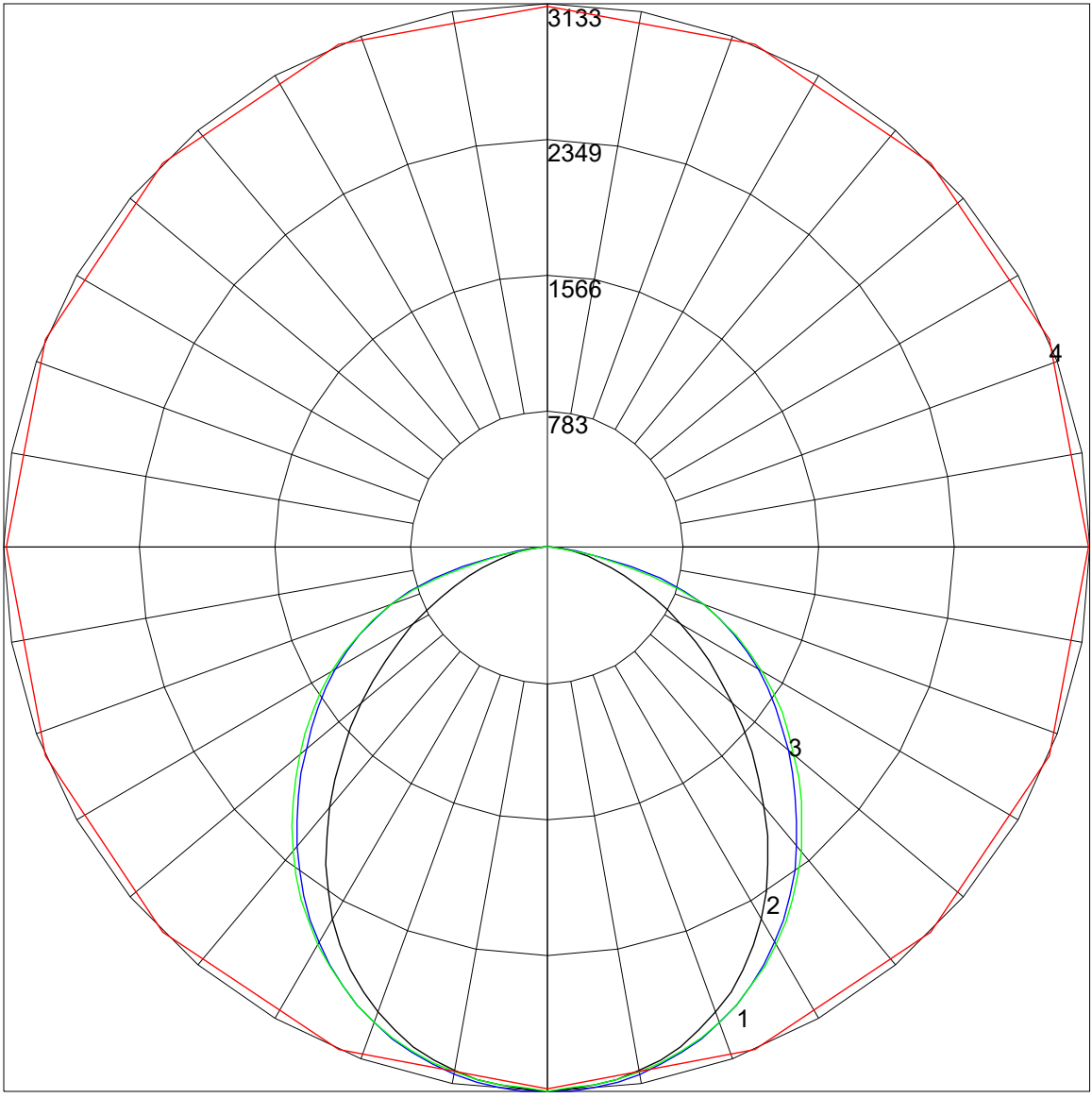
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3132.515 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.)