



IES INDOOR REPORT
PHOTOMETRIC FILENAME : R2L24HFA40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1411031240-007P3
 [TESTLAB]Intertek
 [ISSUE DATE]11/10/2014
 [LUMCAT]1411031240-007 MOD: R2L24HFA40/S2L24HFA40
 [LUMINAIRE]LED RECESSED/SURFACE 2X4
 [LAMP]LED
 [LAMP CAT]NA. LUMINAIRE OUTPUT = 8307LMS
 [OTHER]120.06 VAC, 83.9 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	8307
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
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	3544	4049	4405
55	2983	3803	4329
65	2414	3710	4273
75	1797	3623	3599
85	1123	2028	1109

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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	3135.312	3135.312	3135.312	3135.312	3135.312
2.5	3126.381	3137.693	3134.716	3137.891	3119.833
5.0	3113.482	3124.397	3123.603	3126.580	3110.505
7.5	3093.637	3102.964	3104.750	3109.315	3095.622
10.0	3065.259	3074.586	3076.174	3085.104	3072.006
12.5	3028.149	3037.079	3042.040	3052.955	3042.635
15.0	2980.124	2989.848	3001.755	3014.456	3007.113
17.5	2920.192	2933.488	2950.952	2970.995	2963.652
20.0	2850.933	2868.595	2892.607	2918.009	2915.826
22.5	2774.926	2794.970	2827.714	2857.482	2857.879
25.0	2685.822	2713.605	2752.303	2789.612	2793.184
27.5	2586.200	2618.151	2668.954	2715.391	2723.131
30.0	2475.862	2513.369	2577.866	2632.836	2645.735
32.5	2354.609	2399.261	2480.625	2546.907	2563.974
35.0	2226.609	2279.198	2375.843	2452.445	2475.862
37.5	2092.457	2153.579	2265.902	2352.029	2381.202
40.0	1953.939	2026.175	2148.817	2246.653	2282.770
42.5	1812.841	1896.785	2029.151	2137.902	2180.966
45.0	1671.743	1766.602	1910.081	2030.144	2077.970
47.5	1534.217	1638.403	1792.004	1923.973	1972.593
50.0	1400.065	1511.792	1676.903	1818.397	1866.224
52.5	1268.492	1386.570	1563.588	1714.410	1760.252
55.0	1141.286	1264.127	1455.035	1612.406	1656.264
57.5	1018.644	1144.263	1350.452	1512.189	1551.879
60.0	901.955	1025.788	1247.258	1411.773	1439.556
62.5	789.434	910.687	1146.049	1305.007	1320.089
65.0	680.684	799.158	1045.832	1190.502	1204.592
67.5	576.894	693.583	942.439	1076.790	1088.498
70.0	479.058	594.556	834.482	960.696	960.696
72.5	389.160	500.888	729.701	832.498	807.493
75.0	310.177	413.768	625.514	679.096	621.347
77.5	239.132	332.205	513.589	499.102	426.866
80.0	174.239	253.222	388.367	318.115	261.756
82.5	116.093	178.010	249.650	173.247	143.281
85.0	65.290	102.797	117.879	74.617	64.496
87.5	22.425	28.577	21.433	15.082	14.685
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	1142.46	N.A.	13.80
0-30	2407.32	N.A.	29.00
0-40	3884.74	N.A.	46.80
0-60	6631.29	N.A.	79.80
0-80	8187.55	N.A.	98.60
0-90	8307.37	N.A.	100.00
10-90	8010.83	N.A.	96.40
20-40	2742.28	N.A.	33.00
20-50	4205.82	N.A.	50.60
40-70	3731.62	N.A.	44.90
60-80	1556.26	N.A.	18.70
70-80	571.19	N.A.	6.90
80-90	119.83	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	8307.38	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	296.54
10-20	845.92
20-30	1264.86
30-40	1477.42
40-50	1463.53
50-60	1283.01
60-70	985.07
70-80	571.19
80-90	119.83
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

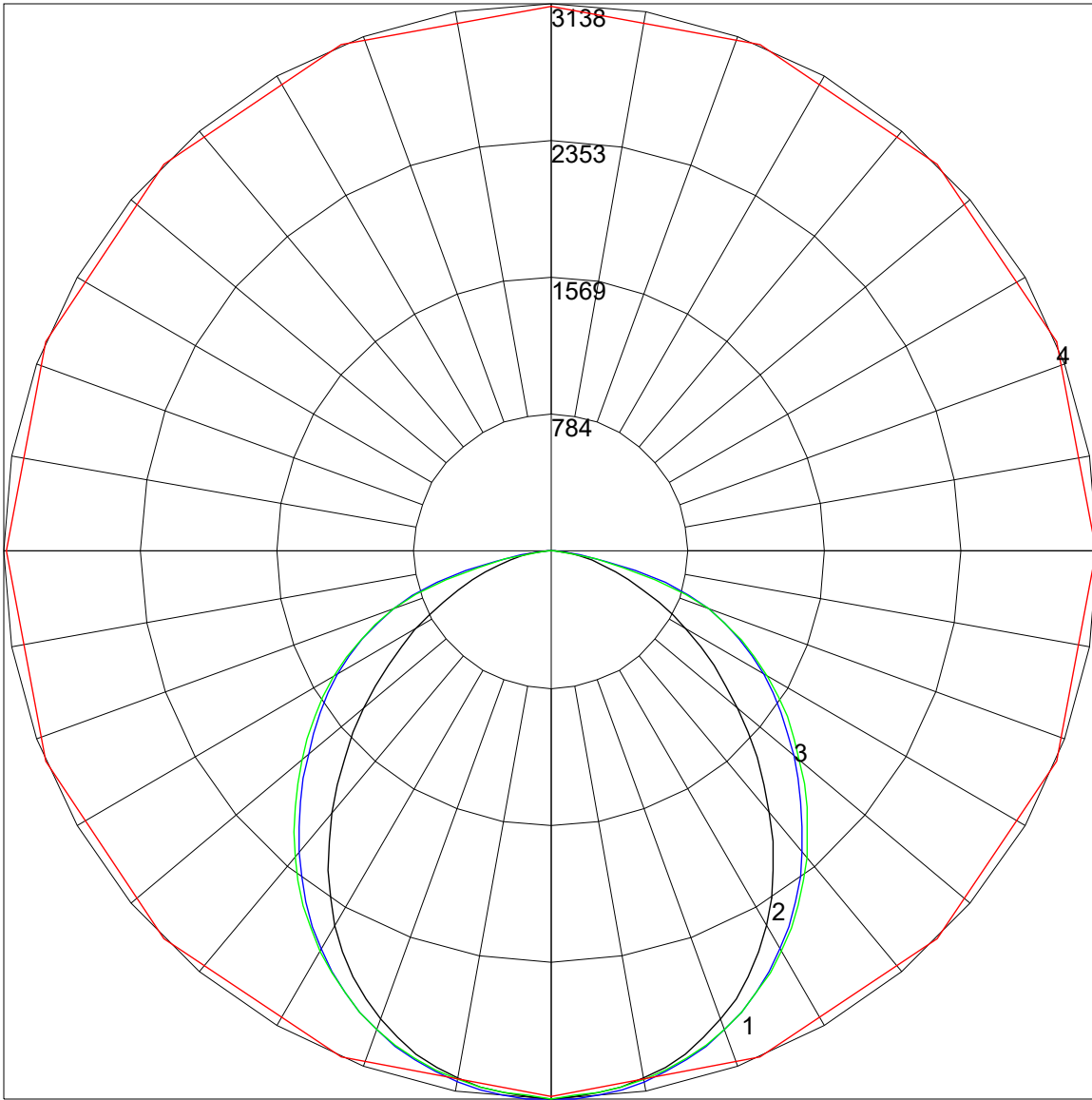
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3137.891 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.)