



IES INDOOR REPORT

PHOTOMETRIC FILENAME : R2L24HFA35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1411031240-007P3
[TESTLAB]Intertek
[ISSUEDATE]11/10/2014
[LUMCAT]1411031240-007 MOD: R2L24HFA35/S2L24HFA35
[LUMINAIRE]LED RECESSED/SURFACE 2X4
[LAMP]LED
[LAMPCAT]NA. LUMINAIRE OUTPUT = 8041LMS
[OTHER]120.06 VAC, 83.9W, 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	8041
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	3431	3920	4264
55	2887	3681	4190
65	2337	3591	4136
75	1739	3507	3484
85	1087	1963	1074

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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	3034.830	3034.830	3034.830	3034.830	3034.830
2.5	3026.186	3037.135	3034.254	3037.327	3019.847
5.0	3013.700	3024.265	3023.497	3026.378	3010.819
7.5	2994.491	3003.519	3005.248	3009.666	2996.412
10.0	2967.022	2976.050	2977.587	2986.231	2973.553
12.5	2931.101	2939.745	2944.548	2955.113	2945.124
15.0	2884.616	2894.028	2905.553	2917.847	2910.740
17.5	2826.604	2839.474	2856.378	2875.779	2868.672
20.0	2759.565	2776.661	2799.904	2824.491	2822.378
22.5	2685.994	2705.396	2737.090	2765.904	2766.288
25.0	2599.746	2626.639	2664.096	2700.209	2703.667
27.5	2503.317	2534.243	2583.418	2628.367	2635.859
30.0	2396.515	2432.820	2495.249	2548.458	2560.944
32.5	2279.148	2322.368	2401.125	2465.283	2481.803
35.0	2155.250	2206.154	2299.701	2373.848	2396.515
37.5	2025.397	2084.561	2193.284	2276.651	2304.888
40.0	1891.318	1961.239	2079.951	2174.651	2209.611
42.5	1754.742	1835.996	1964.120	2069.386	2111.069
45.0	1618.166	1709.985	1848.866	1965.081	2011.374
47.5	1485.048	1585.895	1734.573	1862.313	1909.375
50.0	1355.195	1463.342	1623.160	1760.121	1806.414
52.5	1227.839	1342.133	1513.477	1659.465	1703.838
55.0	1104.710	1223.613	1408.404	1560.731	1603.183
57.5	985.998	1107.591	1307.172	1463.726	1502.144
60.0	873.049	992.913	1207.286	1366.528	1393.421
62.5	764.134	881.501	1109.320	1263.184	1277.783
65.0	658.869	773.546	1012.314	1152.348	1165.986
67.5	558.406	671.355	912.235	1042.280	1053.614
70.0	463.705	575.502	807.738	929.908	929.908
72.5	376.688	484.835	706.315	805.818	781.614
75.0	300.237	400.508	605.468	657.332	601.434
77.5	231.468	321.559	497.129	483.106	413.186
80.0	168.655	245.107	375.920	307.920	253.367
82.5	112.373	172.305	241.649	167.695	138.689
85.0	63.198	99.503	114.101	72.226	62.429
87.5	21.706	27.661	20.746	14.599	14.215
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	0.192	0.000	0.000
170.0	0.000	0.000	0.000	0.192	0.192
172.5	0.000	0.000	0.192	0.192	0.192
175.0	0.000	0.000	0.000	0.000	0.192
177.5	0.000	0.000	0.192	0.000	0.192
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	1105.85	N.A.	13.80
0-30	2330.17	N.A.	29.00
0-40	3760.24	N.A.	46.80
0-60	6418.77	N.A.	79.80
0-80	7925.15	N.A.	98.60
0-90	8041.13	N.A.	100.00
10-90	7754.1	N.A.	96.40
20-40	2654.4	N.A.	33.00
20-50	4071.03	N.A.	50.60
40-70	3612.02	N.A.	44.90
60-80	1506.38	N.A.	18.70
70-80	552.88	N.A.	6.90
80-90	115.99	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	8041.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	287.04
10-20	818.81
20-30	1224.33
30-40	1430.07
40-50	1416.63
50-60	1241.9
60-70	953.50
70-80	552.88
80-90	115.99
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

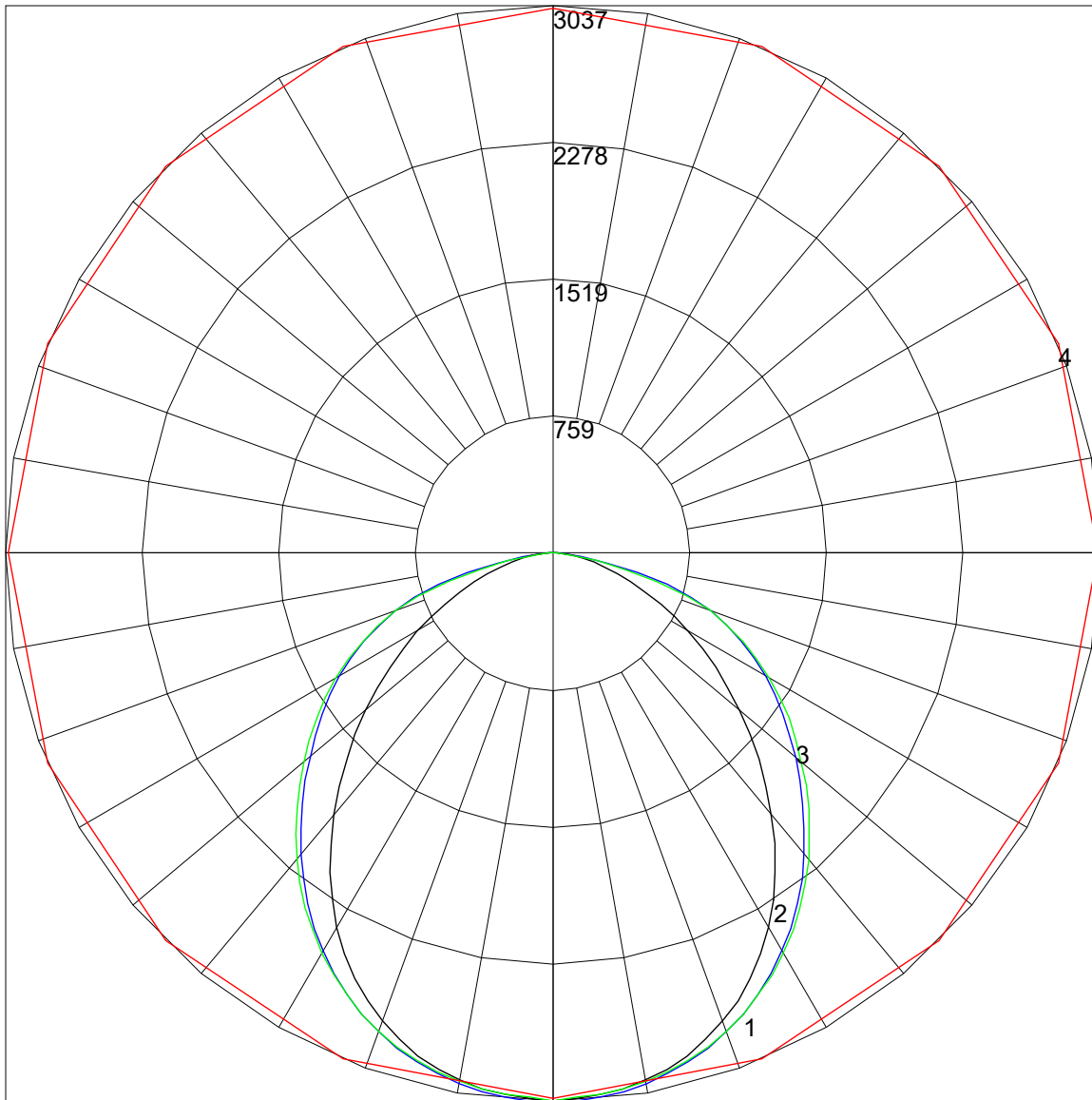
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3037.327 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.)