



IES INDOOR REPORT

PHOTOMETRIC FILENAME : R2L24HFA50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1411031240-007P4
[TESTLAB]Intertek
[ISSUE DATE]11/10/2014
[LUMCAT]1411031240-007 MOD: R2L24HFA50/S2L24HFA50
[LUMINAIRE]LED RECESSED/SURFACE 2X4
[LAMP]LED
[LAMPCAT]NA. LUMINAIRE OUTPUT = 8557 LMS
[OTHER]120.06 VAC, 83.9 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	8557
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	3651	4171	4538
55	3072	3917	4459
65	2487	3821	4401
75	1851	3732	3707
85	1157	2088	1143

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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	3229.474	3229.474	3229.474	3229.474	3229.474
2.5	3220.275	3231.927	3228.860	3232.131	3213.530
5.0	3206.989	3218.231	3217.413	3220.480	3203.922
7.5	3186.548	3196.155	3197.995	3202.696	3188.592
10.0	3157.317	3166.924	3168.559	3177.758	3164.267
12.5	3119.092	3128.291	3133.401	3144.644	3134.014
15.0	3069.625	3079.641	3091.906	3104.988	3097.425
17.5	3007.893	3021.589	3039.577	3060.222	3052.659
20.0	2936.554	2954.747	2979.480	3005.645	3003.396
22.5	2858.265	2878.911	2912.638	2943.300	2943.708
25.0	2766.485	2795.102	2834.962	2873.391	2877.071
27.5	2663.871	2696.781	2749.110	2796.942	2804.914
30.0	2550.219	2588.853	2655.286	2711.908	2725.194
32.5	2425.325	2471.317	2555.125	2623.398	2640.977
35.0	2293.480	2347.649	2447.197	2526.099	2550.219
37.5	2155.299	2218.257	2333.953	2422.667	2452.716
40.0	2012.621	2087.026	2213.352	2314.126	2351.328
42.5	1867.285	1953.751	2090.092	2202.109	2246.466
45.0	1721.950	1819.658	1967.446	2091.114	2140.377
47.5	1580.294	1687.609	1845.822	1981.755	2031.835
50.0	1442.113	1557.195	1727.265	1873.009	1922.272
52.5	1306.589	1428.213	1610.546	1765.898	1813.117
55.0	1175.562	1302.092	1498.734	1660.831	1706.006
57.5	1049.237	1178.628	1391.010	1557.604	1598.486
60.0	929.043	1056.595	1284.717	1454.173	1482.790
62.5	813.143	938.038	1180.468	1344.200	1359.735
65.0	701.126	823.159	1077.241	1226.256	1240.769
67.5	594.220	714.413	970.743	1109.129	1121.189
70.0	493.446	612.412	859.544	989.549	989.549
72.5	400.848	515.931	751.616	857.500	831.744
75.0	319.493	426.195	644.300	699.491	640.008
77.5	246.314	342.182	529.013	514.091	439.686
80.0	179.472	260.827	400.030	327.669	269.617
82.5	119.580	183.356	257.148	178.450	147.584
85.0	67.251	105.884	121.420	76.858	66.433
87.5	23.098	29.435	22.076	15.535	15.126
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	0.204	0.000	0.000
170.0	0.000	0.000	0.000	0.204	0.204
172.5	0.000	0.000	0.204	0.204	0.204
175.0	0.000	0.000	0.000	0.000	0.204
177.5	0.000	0.000	0.204	0.000	0.204
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	1176.77	N.A.	13.80
0-30	2479.62	N.A.	29.00
0-40	4001.41	N.A.	46.80
0-60	6830.45	N.A.	79.80
0-80	8433.44	N.A.	98.60
0-90	8556.87	N.A.	100.00
10-90	8251.42	N.A.	96.40
20-40	2824.64	N.A.	33.00
20-50	4332.13	N.A.	50.60
40-70	3843.69	N.A.	44.90
60-80	1602.99	N.A.	18.70
70-80	588.34	N.A.	6.90
80-90	123.43	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	8556.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	305.45
10-20	871.33
20-30	1302.85
30-40	1521.79
40-50	1507.49
50-60	1321.55
60-70	1014.65
70-80	588.34
80-90	123.43
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	0.01
170-180	0.01

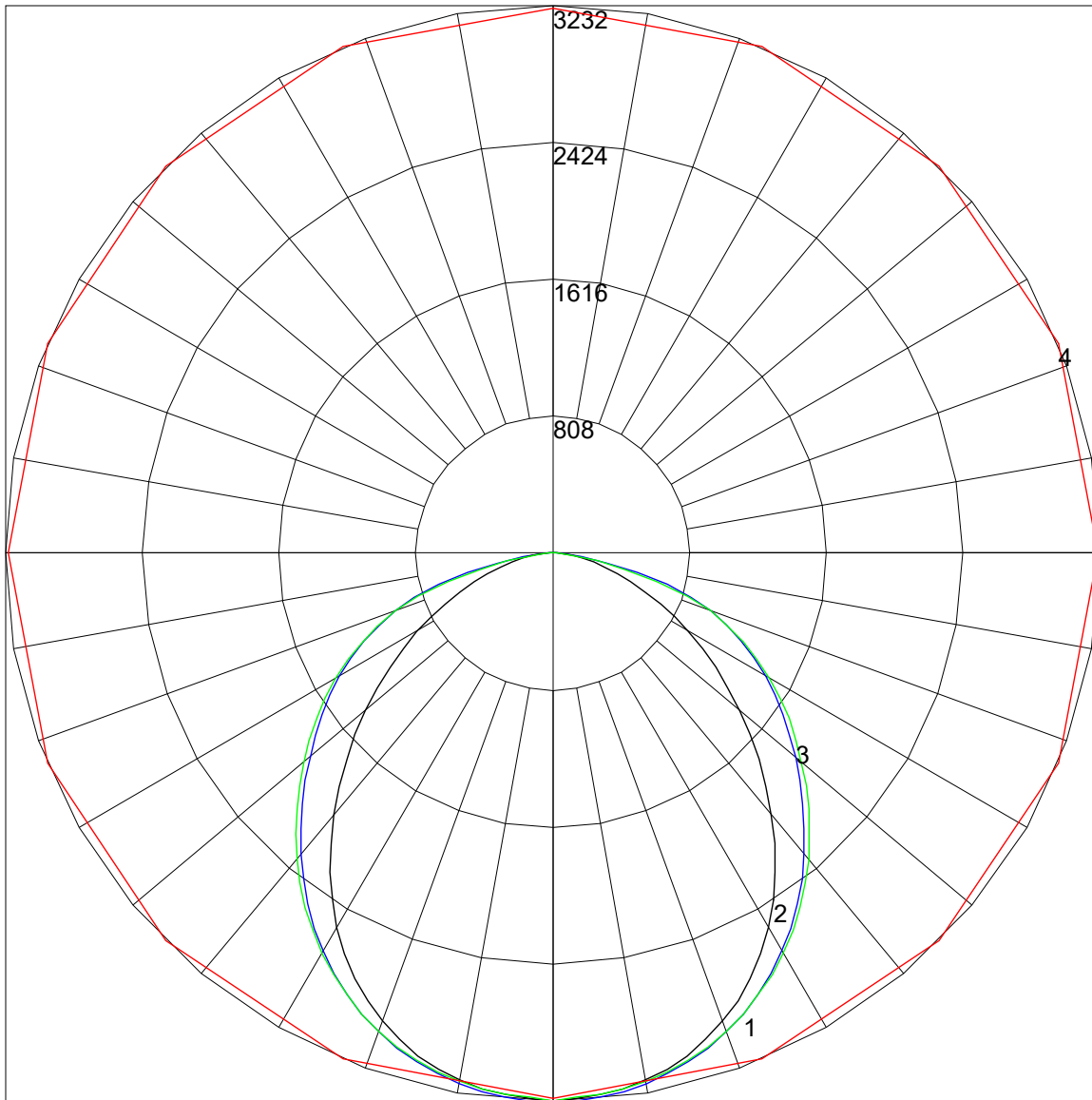
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 3232.131 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.)