



IES INDOOR REPORT

PHOTOMETRIC FILENAME : R2L24LFA35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1411031240-007P
[TESTLAB]Intertek
[ISSUEDATE]11/10/2014
[LUMCAT]1411031240-007 MOD: R2L24LFA35/S2L24LFA35
[LUMINAIRE]LED RECESSED/SURFACE 2X4
[LAMP]LED
[LAMPCAT]NA. LUMINAIRE OUTPUT = 4291 LMS
[OTHER]120.06 VAC, 333.79 mA, 39.989 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	4291
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	40
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	1831	2092	2276
55	1541	1964	2236
65	1247	1916	2207
75	928	1871	1859
85	580	1047	573

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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	1619.555	1619.555	1619.555	1619.555	1619.555
2.5	1614.943	1620.786	1619.248	1620.888	1611.560
5.0	1608.279	1613.917	1613.507	1615.045	1606.742
7.5	1598.028	1602.846	1603.769	1606.127	1599.053
10.0	1583.369	1588.187	1589.007	1593.620	1586.855
12.5	1564.200	1568.813	1571.376	1577.014	1571.683
15.0	1539.393	1544.416	1550.566	1557.127	1553.334
17.5	1508.435	1515.303	1524.324	1534.677	1530.884
20.0	1472.659	1481.782	1494.186	1507.307	1506.179
22.5	1433.397	1443.751	1460.665	1476.041	1476.246
25.0	1387.370	1401.722	1421.711	1440.983	1442.828
27.5	1335.910	1352.414	1378.657	1402.644	1406.642
30.0	1278.915	1298.289	1331.605	1360.000	1366.663
32.5	1216.281	1239.346	1281.375	1315.613	1324.429
35.0	1150.162	1177.327	1227.250	1266.819	1278.915
37.5	1080.865	1112.439	1170.459	1214.949	1230.017
40.0	1009.313	1046.627	1109.978	1160.516	1179.173
42.5	936.429	979.791	1048.165	1104.340	1126.585
45.0	863.544	912.544	986.659	1048.677	1073.382
47.5	792.505	846.323	925.665	993.834	1018.949
50.0	723.208	780.921	866.209	939.299	964.004
52.5	655.244	716.237	807.676	885.584	909.264
55.0	589.535	652.989	751.603	832.894	855.548
57.5	526.184	591.073	697.581	781.126	801.628
60.0	465.908	529.874	644.275	729.256	743.608
62.5	407.785	470.418	591.995	674.106	681.897
65.0	351.609	412.808	540.228	614.957	622.236
67.5	297.997	358.272	486.820	556.219	562.267
70.0	247.459	307.120	431.055	496.251	496.251
72.5	201.022	258.735	376.929	430.029	417.113
75.0	160.223	213.733	323.112	350.789	320.959
77.5	123.525	171.602	265.296	257.813	220.499
80.0	90.004	130.803	200.612	164.324	135.211
82.5	59.968	91.951	128.958	89.491	74.012
85.0	33.726	53.100	60.891	38.544	33.316
87.5	11.584	14.761	11.071	7.791	7.586
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	0.103	0.000	0.000
170.0	0.000	0.000	0.000	0.103	0.103
172.5	0.000	0.000	0.103	0.103	0.103
175.0	0.000	0.000	0.000	0.000	0.103
177.5	0.000	0.000	0.103	0.000	0.103
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	590.14	N.A.	13.80
0-30	1243.51	N.A.	29.00
0-40	2006.68	N.A.	46.80
0-60	3425.41	N.A.	79.80
0-80	4229.3	N.A.	98.60
0-90	4291.2	N.A.	100.00
10-90	4138.02	N.A.	96.40
20-40	1416.53	N.A.	33.00
20-50	2172.53	N.A.	50.60
40-70	1927.58	N.A.	44.90
60-80	803.89	N.A.	18.70
70-80	295.05	N.A.	6.90
80-90	61.90	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	4291.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.18
10-20	436.96
20-30	653.37
30-40	763.17
40-50	755.99
50-60	662.75
60-70	508.84
70-80	295.05
80-90	61.90
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	0.00

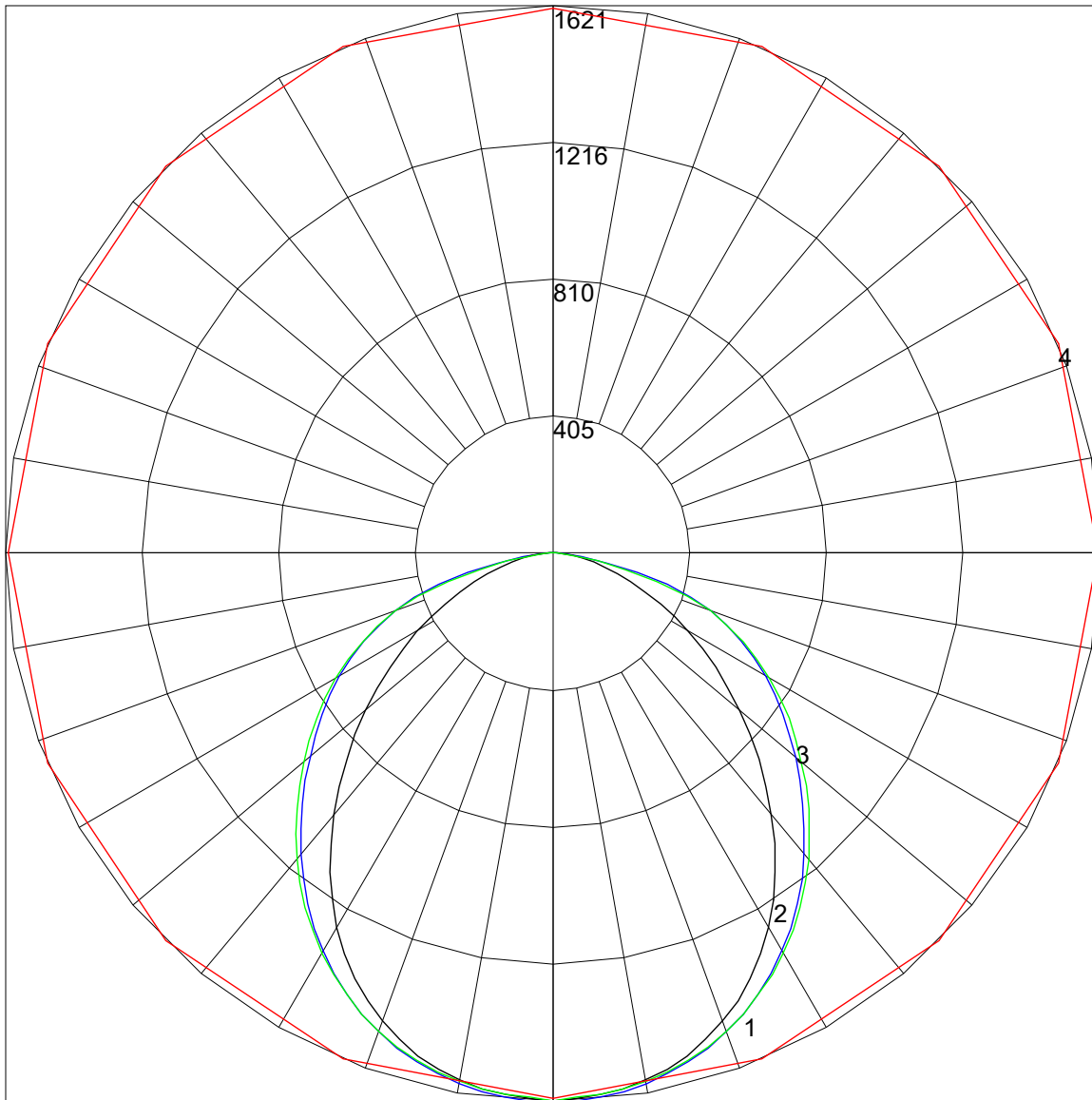
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1620.888 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.)