



# Photometric Toolbox™

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWFHB-LED100DMVFR40.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]BALLABS TEST NO. 18083.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 01-MAY-2014  
 [MANUFAC] MOBERN LIGHTING COMPANY  
 [LUMINAIRE] VWFHB-LED100DMVFR40  
 [MORE] REFL & FROSTED ACRYLIC DROP LENS w/DRIVERS MOUNTED TO TRAY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11100
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	100
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.25 ft
Luminous Width (90-270)	1.15 ft
Luminous Height	0.27 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7280	6327	6067
55	6170	5143	5138
65	5085	4189	4482
75	3748	3216	3653
85	2297	2328	2848

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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>
<b>0</b>	4153.876	4153.876	4153.876	4153.876	4153.876
<b>5</b>	4118.497	4115.722	4110.173	4111.560	4108.785
<b>10</b>	4056.064	4051.208	4049.821	4049.821	4049.821
<b>15</b>	3874.315	3870.846	3869.459	3868.071	3868.071
<b>20</b>	3841.711	3834.774	3828.530	3821.593	3818.125
<b>25</b>	3499.023	3495.554	3491.392	3485.843	3480.987
<b>30</b>	3274.264	3271.489	3261.084	3246.516	3239.579
<b>35</b>	3025.226	3022.451	3012.045	2989.847	2981.523
<b>40</b>	2747.052	2743.584	2726.241	2694.331	2677.682
<b>45</b>	2479.978	2475.815	2456.392	2418.238	2402.283
<b>50</b>	2090.118	2091.506	2070.001	2051.965	2051.965
<b>55</b>	1748.818	1752.980	1741.187	1763.385	1785.584
<b>60</b>	1398.499	1408.905	1418.617	1484.518	1515.735
<b>65</b>	1106.452	1123.100	1166.803	1260.453	1293.057
<b>70</b>	822.035	845.620	928.171	1030.145	1064.136
<b>75</b>	543.861	580.627	675.664	778.331	806.079
<b>80</b>	331.589	378.067	489.752	586.177	612.537
<b>85</b>	156.776	209.497	314.940	394.022	416.220
<b>90</b>	79.082	113.073	187.299	233.083	246.264
<b>95</b>	45.784	81.857	139.434	171.344	176.200
<b>100</b>	45.784	72.145	113.073	131.803	138.046
<b>105</b>	47.172	65.902	99.893	118.623	121.398
<b>110</b>	45.784	56.883	90.875	109.605	115.848
<b>115</b>	35.379	47.172	81.857	101.280	105.442
<b>120</b>	0.000	40.928	73.532	95.037	96.424
<b>125</b>	0.000	35.379	65.902	83.244	93.650
<b>130</b>	0.000	0.000	55.496	73.532	79.082
<b>135</b>	0.000	0.000	43.703	61.739	68.676
<b>140</b>	0.000	0.000	39.541	56.883	61.739
<b>145</b>	0.000	0.000	0.000	51.334	52.721
<b>150</b>	0.000	0.000	0.000	39.541	39.541
<b>155</b>	0.000	0.000	0.000	0.000	33.991
<b>160</b>	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1495.2	N.A.	13.50
0-30	3117.05	N.A.	28.10
0-40	4995.1	N.A.	45.00
0-60	8436.46	N.A.	76.00
0-80	10345.66	N.A.	93.20
0-90	10688.49	N.A.	96.30
10-90	10297.62	N.A.	92.80
20-40	3499.9	N.A.	31.50
20-50	5369.75	N.A.	48.40
40-70	4618.55	N.A.	41.60
60-80	1909.2	N.A.	17.20
70-80	732.01	N.A.	6.60
80-90	342.83	N.A.	3.10
90-110	242.33	N.A.	2.20
90-120	316.71	N.A.	2.90
90-130	366.71	N.A.	3.30
90-150	408.24	N.A.	3.70
90-180	411.10	N.A.	3.70
110-180	168.78	N.A.	1.50
0-180	11099.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	390.87
10-20	1104.33
20-30	1621.85
30-40	1878.05
40-50	1869.85
50-60	1571.51
60-70	1177.2
70-80	732.01
80-90	342.83
90-100	144.12
100-110	98.21
110-120	74.38
120-130	50.00
130-140	27.94
140-150	13.59
150-160	2.86
160-170	0.00
170-180	0.00

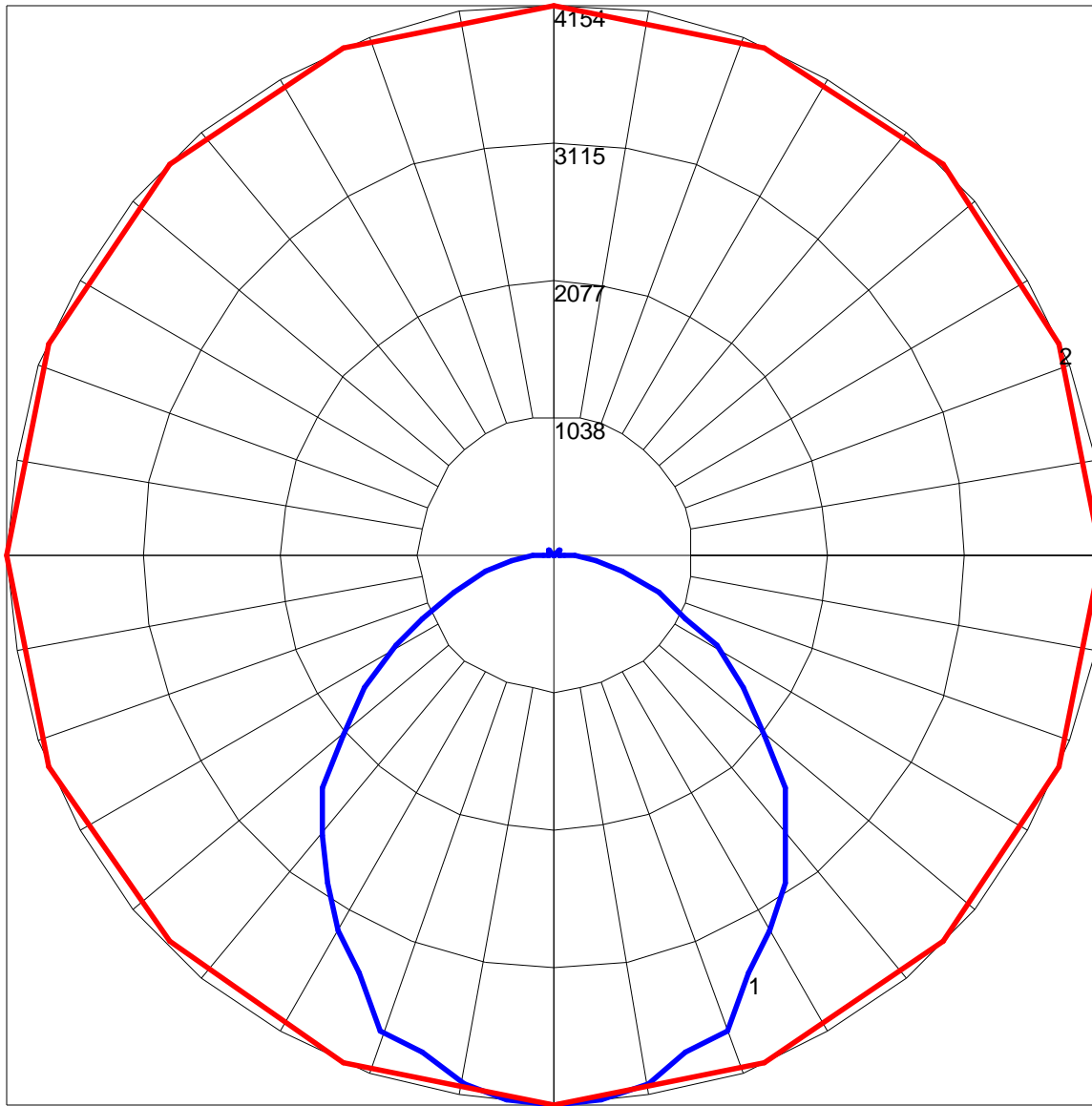
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	108	103	98	94	105	100	96	93	95	92	89	91	88	86	86	84	82	80
2	98	90	83	77	95	88	81	76	83	78	74	80	75	71	76	72	69	67
3	90	79	71	64	87	77	70	64	74	67	62	70	65	61	67	63	59	57
4	82	70	62	55	80	69	61	54	66	59	53	63	57	52	60	55	51	49
5	76	63	54	48	73	62	53	47	59	52	46	57	50	45	55	49	45	42
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	50	44	39	37
7	65	52	43	37	63	51	42	37	49	41	36	47	40	36	45	40	35	33
8	61	47	39	33	59	46	38	33	45	38	32	43	37	32	42	36	32	30
9	57	43	35	30	55	43	35	30	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 4153.876 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)