



# Photometric Toolbox™

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWFHB-LED150DMVFR40.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-LED150DMVFR40  
 [MORE] REFL & FROSTED ACRYLIC DROP LENS w/DRIVERS MOUNTED TO ALUM  
 [MORE] HEATSINK 2 ADVANCE #XI075C200V054XPT1 26.6K & 26.8K  
 [LUMCAT] CT4/CT4i-LED-SMM-4-CC-FORTIMO-L-840-U  
 [MORE] DATA EXTRAPOLATED FROM 3000K FILE

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16844
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	149
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	11047	9601	9206
55	9363	7805	7797
65	7717	6357	6802
75	5687	4880	5543
85	3486	3533	4321

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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>	6303.549	6303.549	6303.549	6303.549	6303.549
<b>5</b>	6249.862	6245.651	6237.229	6239.335	6235.124
<b>10</b>	6155.119	6147.750	6145.645	6145.645	6145.645
<b>15</b>	5879.312	5874.049	5871.944	5869.838	5869.838
<b>20</b>	5829.836	5819.309	5809.834	5799.307	5794.044
<b>25</b>	5309.803	5304.540	5298.224	5289.802	5282.433
<b>30</b>	4968.730	4964.519	4948.728	4926.622	4916.095
<b>35</b>	4590.811	4586.601	4570.810	4537.124	4524.491
<b>40</b>	4168.680	4163.416	4137.099	4088.675	4063.410
<b>45</b>	3763.392	3757.075	3727.600	3669.702	3645.490
<b>50</b>	3171.776	3173.881	3141.248	3113.878	3113.878
<b>55</b>	2653.849	2660.165	2642.269	2675.956	2709.642
<b>60</b>	2122.237	2138.027	2152.765	2252.771	2300.143
<b>65</b>	1679.052	1704.316	1770.636	1912.750	1962.227
<b>70</b>	1247.446	1283.238	1408.509	1563.255	1614.837
<b>75</b>	825.314	881.107	1025.327	1181.126	1223.234
<b>80</b>	503.189	573.720	743.204	889.529	929.531
<b>85</b>	237.910	317.914	477.924	597.932	631.618
<b>90</b>	120.007	171.590	284.228	353.706	373.707
<b>95</b>	69.478	124.218	211.592	260.016	267.385
<b>100</b>	69.478	109.480	171.590	200.012	209.487
<b>105</b>	71.583	100.006	151.588	180.011	184.222
<b>110</b>	69.478	86.321	137.903	166.326	175.800
<b>115</b>	53.688	71.583	124.218	153.694	160.010
<b>120</b>	0.000	62.109	111.586	144.219	146.325
<b>125</b>	0.000	53.688	100.006	126.324	142.114
<b>130</b>	0.000	0.000	84.216	111.586	120.007
<b>135</b>	0.000	0.000	66.320	93.690	104.217
<b>140</b>	0.000	0.000	60.004	86.321	93.690
<b>145</b>	0.000	0.000	0.000	77.900	80.005
<b>150</b>	0.000	0.000	0.000	60.004	60.004
<b>155</b>	0.000	0.000	0.000	0.000	51.582
<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	2268.98	N.A.	13.50
0-30	4730.15	N.A.	28.10
0-40	7580.12	N.A.	45.00
0-60	12802.41	N.A.	76.00
0-80	15699.65	N.A.	93.20
0-90	16219.89	N.A.	96.30
10-90	15626.74	N.A.	92.80
20-40	5311.14	N.A.	31.50
20-50	8148.66	N.A.	48.40
40-70	7008.7	N.A.	41.60
60-80	2897.23	N.A.	17.20
70-80	1110.83	N.A.	6.60
80-90	520.24	N.A.	3.10
90-110	367.73	N.A.	2.20
90-120	480.61	N.A.	2.90
90-130	556.48	N.A.	3.30
90-150	619.51	N.A.	3.70
90-180	623.85	N.A.	3.70
110-180	256.12	N.A.	1.50
0-180	16843.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	593.15
10-20	1675.83
20-30	2461.18
30-40	2849.96
40-50	2837.52
50-60	2384.78
60-70	1786.41
70-80	1110.83
80-90	520.24
90-100	218.70
100-110	149.04
110-120	112.88
120-130	75.88
130-140	42.40
140-150	20.63
150-160	4.34
160-170	0.00
170-180	0.00

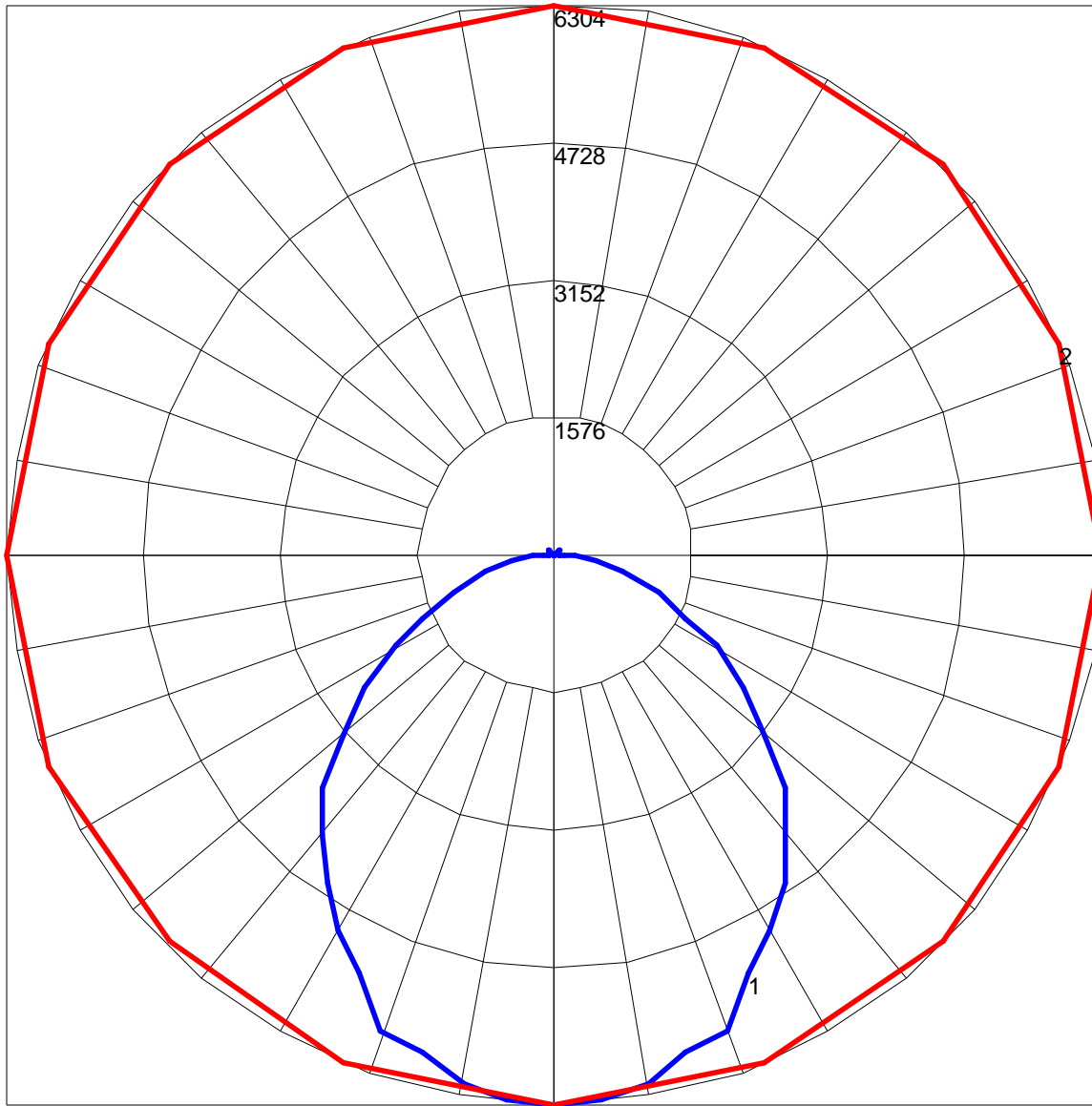
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	54	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 = 6303.549 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.)