



Photometric Toolbox™

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VWFHB-LED120DMVFR40.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-LED120DMVFR40
 [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	13350
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	120
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	8756	7610	7297
55	7421	6186	6180
65	6116	5038	5391
75	4508	3868	4394
85	2763	2801	3425

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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	4996.238	4996.238	4996.238	4996.238	4996.238
5	4953.685	4950.347	4943.672	4945.341	4942.003
10	4878.591	4872.750	4871.081	4871.081	4871.081
15	4659.985	4655.813	4654.144	4652.475	4652.475
20	4620.769	4612.425	4604.916	4596.572	4592.400
25	4208.588	4204.416	4199.409	4192.734	4186.894
30	3938.250	3934.913	3922.397	3904.875	3896.531
35	3638.709	3635.372	3622.856	3596.156	3586.144
40	3304.125	3299.953	3279.094	3240.713	3220.688
45	2982.891	2977.884	2954.522	2908.631	2889.441
50	2513.972	2515.641	2489.775	2468.081	2468.081
55	2103.459	2108.466	2094.281	2120.981	2147.681
60	1682.100	1694.616	1706.297	1785.563	1823.109
65	1330.828	1350.853	1403.419	1516.059	1555.275
70	988.734	1017.103	1116.394	1239.047	1279.931
75	654.150	698.372	812.681	936.169	969.544
80	398.831	454.734	589.069	705.047	736.753
85	188.569	251.981	378.806	473.925	500.625
90	95.119	136.003	225.281	280.350	296.203
95	55.069	98.456	167.709	206.091	211.931
100	55.069	86.775	136.003	158.531	166.041
105	56.738	79.266	120.150	142.678	146.016
110	55.069	68.419	109.303	131.831	139.341
115	42.553	56.738	98.456	121.819	126.825
120	0.000	49.228	88.444	114.309	115.978
125	0.000	42.553	79.266	100.125	112.641
130	0.000	0.000	66.750	88.444	95.119
135	0.000	0.000	52.566	74.259	82.603
140	0.000	0.000	47.559	68.419	74.259
145	0.000	0.000	0.000	61.744	63.413
150	0.000	0.000	0.000	47.559	47.559
155	0.000	0.000	0.000	0.000	40.884
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1798.41	N.A.	13.50
0-30	3749.15	N.A.	28.10
0-40	6008.05	N.A.	45.00
0-60	10147.28	N.A.	76.00
0-80	12443.65	N.A.	93.20
0-90	12856.00	N.A.	96.30
10-90	12385.86	N.A.	92.80
20-40	4209.65	N.A.	31.50
20-50	6458.68	N.A.	48.40
40-70	5555.15	N.A.	41.60
60-80	2296.37	N.A.	17.20
70-80	880.45	N.A.	6.60
80-90	412.35	N.A.	3.10
90-110	291.47	N.A.	2.20
90-120	380.93	N.A.	2.90
90-130	441.07	N.A.	3.30
90-150	491.03	N.A.	3.70
90-180	494.47	N.A.	3.70
110-180	203.00	N.A.	1.50
0-180	13350.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	470.13
10-20	1328.28
20-30	1950.74
30-40	2258.9
40-50	2249.04
50-60	1890.19
60-70	1415.92
70-80	880.45
80-90	412.35
90-100	173.34
100-110	118.13
110-120	89.47
120-130	60.14
130-140	33.61
140-150	16.35
150-160	3.44
160-170	0.00
170-180	0.00

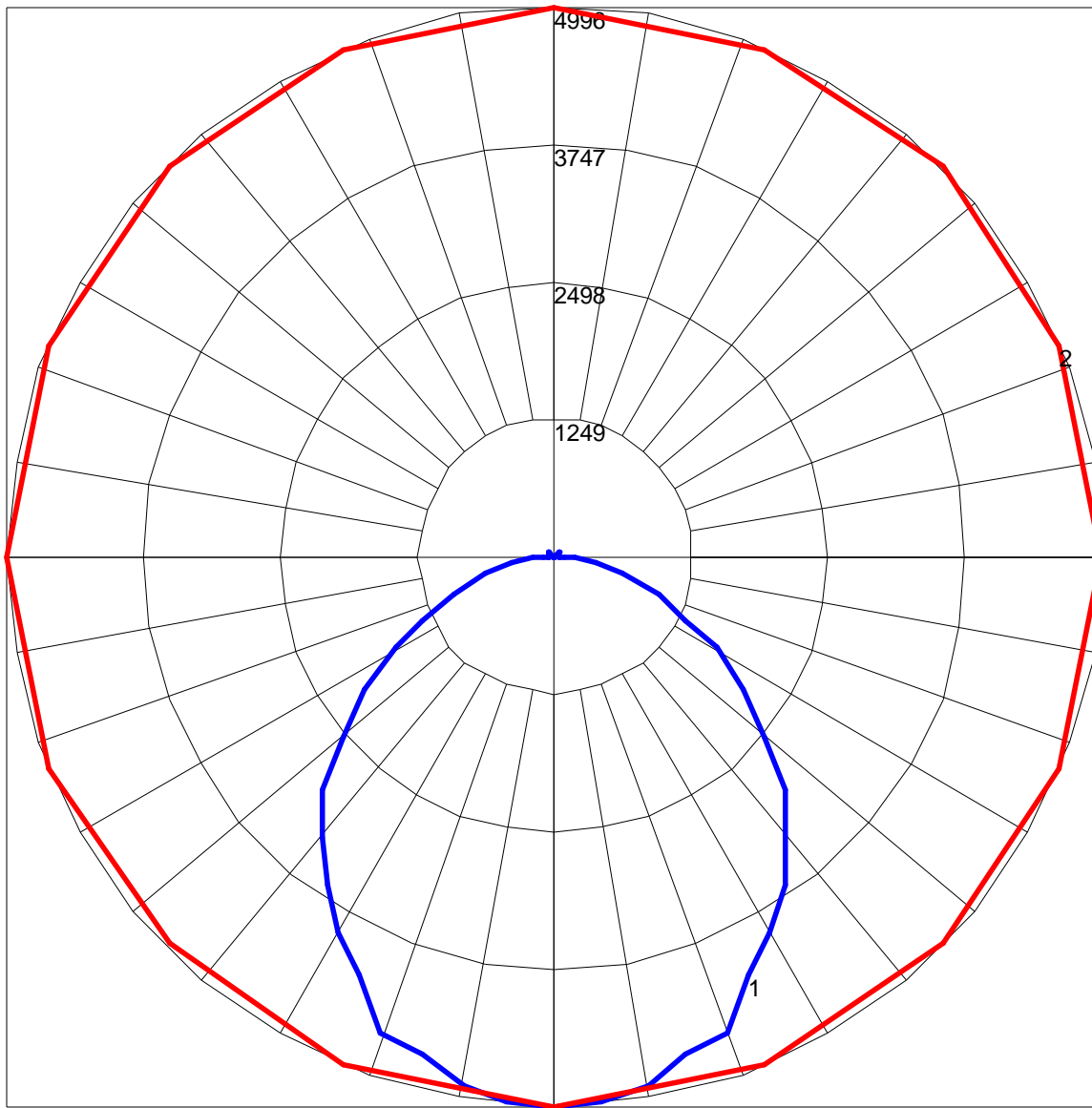
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 4996.238 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.)