



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VWFHB-LED180DMVFR50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS TEST NO. 18102.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 02-MAY-2014
 [MANUFAC] MOBERN LIGHTING CO
 [LUMINAIRE] 6-(96LED) 22"BOARDS 4'ENCLOSED/GASKETED LUMINAIRE
 [MORE] WHITE REFLECTOR & FROSTED ACRYLIC DROP LENS
 [MORE] 2 ULT DRIVERS #D10CC80UNVT-Z MOUNTED TO ALUM HEATSINK
 [LUMCAT] VWFHB-LED180DMVFR50
 [LAMPCAT] M10CC850D96N2S
 [MORE]DATA EXTRAPOLATED FROM TEST NO. 18102.0 02-NOV-2016

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19987
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	180
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
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	13126	11416	10974
55	11233	9375	9431
65	9228	7666	8263
75	6839	5974	6838
85	4203	4331	5346

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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	7370.993	7370.993	7370.993	7370.993	7370.993
5	7310.548	7303.954	7303.954	7297.360	7295.162
10	7230.321	7221.529	7219.331	7214.935	7212.737
15	6916.007	6913.809	6907.215	6900.621	6900.621
20	6874.245	6863.255	6850.067	6841.275	6832.483
25	6255.508	6248.914	6235.726	6231.330	6217.043
30	5752.166	5741.176	5725.790	5710.404	5687.325
35	5337.843	5329.051	5311.467	5280.695	5262.012
40	4779.551	4770.759	4738.888	4694.928	4666.354
45	4471.831	4469.633	4432.267	4371.822	4345.446
50	3798.144	3798.144	3764.075	3739.897	3739.897
55	3183.803	3190.397	3173.912	3232.159	3277.218
60	2537.591	2555.175	2578.254	2720.025	2778.272
65	2007.873	2043.041	2135.357	2319.989	2383.731
70	1500.135	1549.590	1705.648	1918.854	1979.299
75	992.397	1063.832	1255.058	1451.779	1508.927
80	603.351	694.568	907.774	1100.099	1148.455
85	286.839	384.650	585.767	741.825	781.389
90	147.266	211.008	353.878	445.095	469.273
95	84.623	153.860	267.057	318.710	327.502
100	89.019	136.276	218.701	258.265	262.661
105	86.821	119.791	191.226	227.493	234.087
110	0.000	104.405	171.444	208.810	225.295
115	0.000	89.019	153.860	193.424	204.414
120	0.000	75.831	138.474	178.038	191.226
125	0.000	62.643	119.791	160.454	171.444
130	0.000	0.000	102.207	138.474	153.860
135	0.000	0.000	84.623	117.593	128.583
140	0.000	0.000	69.237	95.613	108.801
145	0.000	0.000	0.000	89.019	95.613
150	0.000	0.000	0.000	71.435	71.435
155	0.000	0.000	0.000	67.039	62.643
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	2666.85	N.A.	13.30
0-30	5553.6	N.A.	27.80
0-40	8852.41	N.A.	44.30
0-60	15066.79	N.A.	75.40
0-80	18577.2	N.A.	92.90
0-90	19216.88	N.A.	96.10
10-90	18522.00	N.A.	92.70
20-40	6185.56	N.A.	30.90
20-50	9534.79	N.A.	47.70
40-70	8369.62	N.A.	41.90
60-80	3510.41	N.A.	17.60
70-80	1355.17	N.A.	6.80
80-90	639.68	N.A.	3.20
90-110	457.06	N.A.	2.30
90-120	591.34	N.A.	3.00
90-130	684.87	N.A.	3.40
90-150	760.70	N.A.	3.80
90-180	769.78	N.A.	3.90
110-180	312.72	N.A.	1.60
0-180	19986.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	694.89
10-20	1971.97
20-30	2886.75
30-40	3298.81
40-50	3349.24
50-60	2865.14
60-70	2155.24
70-80	1355.17
80-90	639.68
90-100	272.82
100-110	184.25
110-120	134.28
120-130	93.53
130-140	51.99
140-150	23.83
150-160	9.08
160-170	0.00
170-180	0.00

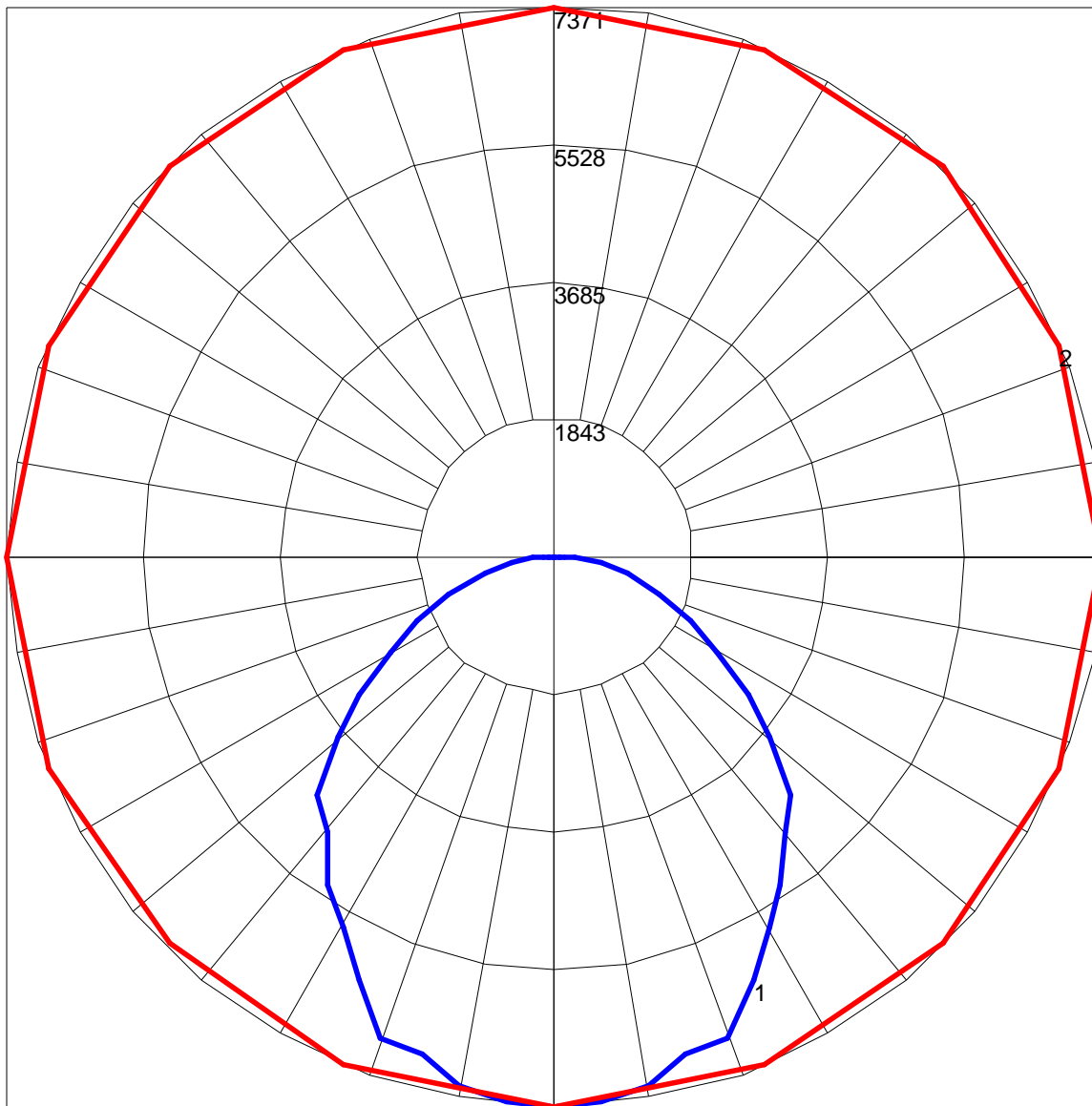
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	100	96	92	95	92	89	90	88	85	86	84	82	80
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	76	72	69	67
3	89	79	71	64	87	77	69	63	73	67	62	70	65	60	67	63	59	56
4	82	70	61	55	79	68	60	54	65	58	53	63	57	52	60	55	51	48
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	49	44	42
6	70	57	48	41	68	55	47	41	53	46	40	51	45	40	49	44	39	37
7	65	51	43	37	63	50	42	36	48	41	36	47	40	35	45	39	35	33
8	60	47	39	33	59	46	38	33	44	37	32	43	36	32	41	36	31	29
9	56	43	35	30	55	42	35	29	41	34	29	40	33	29	38	33	28	26
10	53	40	32	27	51	39	32	27	38	31	26	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 7370.993 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.)