



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VWFHB-LED140DMVFR50.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] 2-(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-LED140DMVFR50
 [LAMPCAT] M10CC850D96N2S
 [MORE]DATA EXTRAPOLATED FROM TEST NO. 18102.0 04-NOV-2016

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	15549
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	140
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	10212	8882	8537
55	8739	7294	7337
65	7179	5964	6429
75	5320	4647	5320
85	3270	3369	4159

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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	5734.485	5734.485	5734.485	5734.485	5734.485
5	5687.460	5682.330	5682.330	5677.200	5675.490
10	5625.045	5618.205	5616.495	5613.075	5611.365
15	5380.515	5378.805	5373.675	5368.545	5368.545
20	5348.025	5339.475	5329.215	5322.375	5315.535
25	4866.660	4861.530	4851.270	4847.850	4836.735
30	4475.070	4466.520	4454.550	4442.580	4424.625
35	4152.735	4145.895	4132.215	4108.275	4093.740
40	3718.395	3711.555	3686.760	3652.560	3630.330
45	3478.995	3477.285	3448.215	3401.190	3380.670
50	2954.880	2954.880	2928.375	2909.565	2909.565
55	2476.935	2482.065	2469.240	2514.555	2549.610
60	1974.195	1987.875	2005.830	2116.125	2161.440
65	1562.085	1589.445	1661.265	1804.905	1854.495
70	1167.075	1205.550	1326.960	1492.830	1539.855
75	772.065	827.640	976.410	1129.455	1173.915
80	469.395	540.360	706.230	855.855	893.475
85	223.155	299.250	455.715	577.125	607.905
90	114.570	164.160	275.310	346.275	365.085
95	65.835	119.700	207.765	247.950	254.790
100	69.255	106.020	170.145	200.925	204.345
105	67.545	93.195	148.770	176.985	182.115
110	0.000	81.225	133.380	162.450	175.275
115	0.000	69.255	119.700	150.480	159.030
120	0.000	58.995	107.730	138.510	148.770
125	0.000	48.735	93.195	124.830	133.380
130	0.000	0.000	79.515	107.730	119.700
135	0.000	0.000	65.835	91.485	100.035
140	0.000	0.000	53.865	74.385	84.645
145	0.000	0.000	0.000	69.255	74.385
150	0.000	0.000	0.000	55.575	55.575
155	0.000	0.000	0.000	52.155	48.735
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	2074.76	N.A.	13.30
0-30	4320.59	N.A.	27.80
0-40	6887.00	N.A.	44.30
0-60	11721.66	N.A.	75.40
0-80	14452.69	N.A.	92.90
0-90	14950.35	N.A.	96.10
10-90	14409.74	N.A.	92.70
20-40	4812.24	N.A.	30.90
20-50	7417.88	N.A.	47.70
40-70	6511.4	N.A.	41.90
60-80	2731.03	N.A.	17.60
70-80	1054.3	N.A.	6.80
80-90	497.66	N.A.	3.20
90-110	355.58	N.A.	2.30
90-120	460.05	N.A.	3.00
90-130	532.82	N.A.	3.40
90-150	591.81	N.A.	3.80
90-180	598.87	N.A.	3.90
110-180	243.29	N.A.	1.60
0-180	15549.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	540.61
10-20	1534.15
20-30	2245.83
30-40	2566.41
40-50	2605.64
50-60	2229.02
60-70	1676.73
70-80	1054.3
80-90	497.66
90-100	212.25
100-110	143.34
110-120	104.47
120-130	72.76
130-140	40.45
140-150	18.54
150-160	7.06
160-170	0.00
170-180	0.00

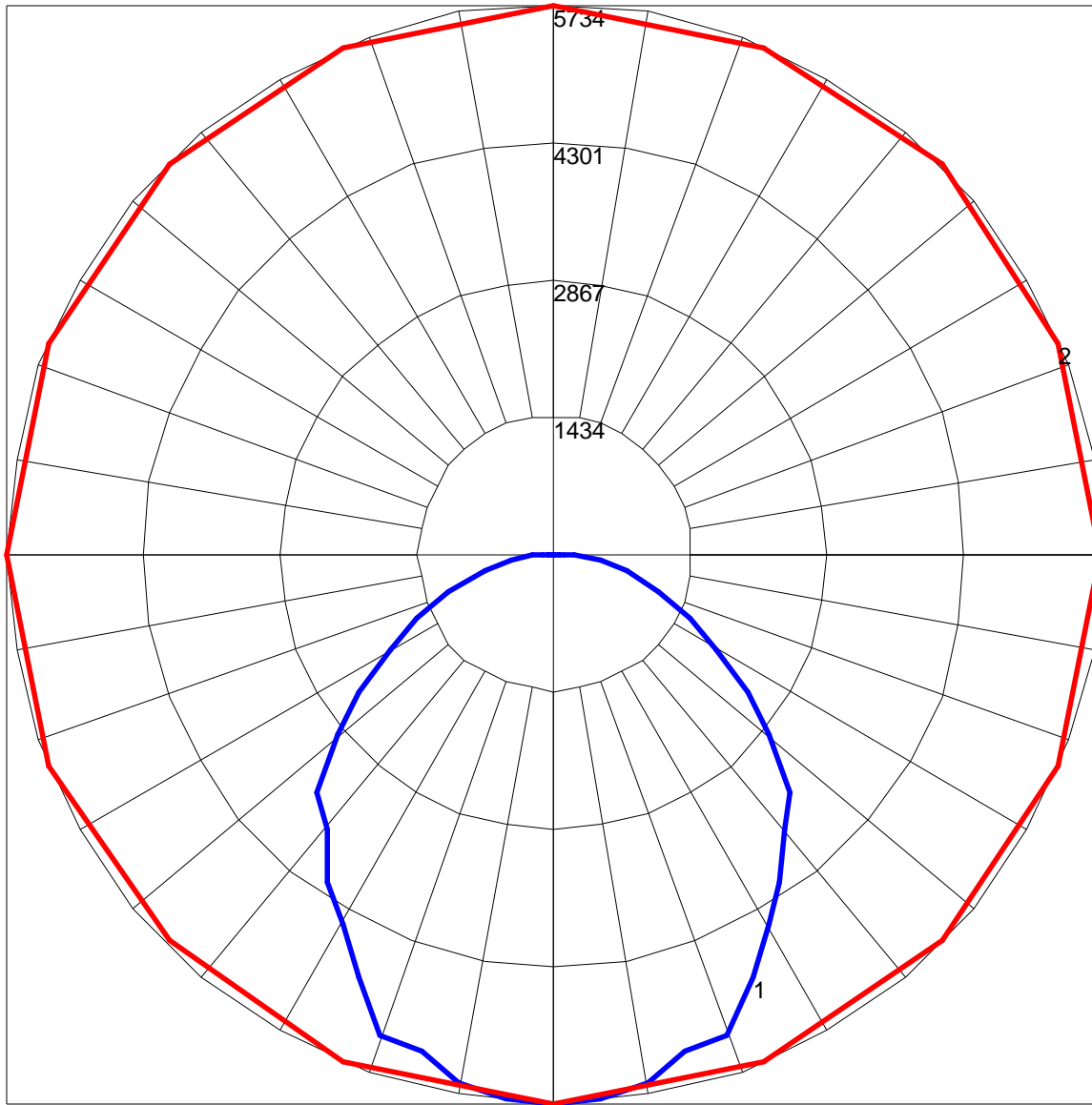
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	103	98	94	104	100	96	92	95	92	89	90	88	85	86	84	82	80
2	98	89	83	77	95	87	81	76	83	78	73	79	75	71	76	72	69	67
3	89	79	71	64	86	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	43	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	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 5734.485 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.)