



IES INDOOR REPORT
PHOTOMETRIC FILENAME : VW(I)FHB-LED270DMVCL50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]BALLABS TEST NO. 18083.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 10-OCT-2016
 [MANUFAC] MOBERN LIGHTING COMPANY
 [LUMINAIRE] VW(I)FHB-LED270DMVCL50
 [MORE] REFL & CLEAR ACRYLIC DROP LENS w/DRIVERS MOUNTED TO ALUM
 [MORE] HEATSINK 2 ADVANCE #XI190C275V054BSG1
 [LAMP CAT] 8 FORTIMO 7500 LUMEN PR 850K LED BOARD
 [MORE] RESULTS EXTRAPOLATED FROM TEST 18083.0

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	36000
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	273
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	23610	20520	19676
55	20012	16681	16665
65	16493	13586	14538
75	12155	10430	11847
85	7451	7552	9236

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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	13472.402	13472.402	13472.402	13472.402	13472.402
5	13357.657	13348.657	13330.658	13335.158	13326.158
10	13155.166	13139.417	13134.917	13134.917	13134.917
15	12565.692	12554.443	12549.943	12545.443	12545.443
20	12459.947	12437.448	12417.199	12394.700	12383.450
25	11348.496	11337.247	11323.747	11305.748	11289.999
30	10619.528	10610.529	10576.780	10529.532	10507.033
35	9811.814	9802.815	9769.066	9697.069	9670.071
40	8909.604	8898.355	8842.107	8738.612	8684.614
45	8043.393	8029.893	7966.896	7843.152	7791.404
50	6778.949	6783.449	6713.702	6655.205	6655.205
55	5671.998	5685.498	5647.249	5719.246	5791.243
60	4535.799	4569.547	4601.046	4814.786	4916.032
65	3588.591	3642.588	3784.332	4088.068	4193.814
70	2666.132	2742.628	3010.366	3341.102	3451.347
75	1763.922	1883.166	2191.403	2524.388	2614.384
80	1075.452	1226.196	1588.429	1901.166	1986.662
85	508.477	679.470	1021.455	1277.943	1349.940
90	256.489	366.734	607.473	755.966	798.715
95	148.493	265.488	452.230	555.725	571.475
100	148.493	233.990	366.734	427.481	447.730
105	152.993	213.741	323.986	384.733	393.733
110	148.493	184.492	294.737	355.484	375.733
115	114.745	152.993	265.488	328.485	341.985
120	0.000	132.744	238.489	308.236	312.736
125	0.000	114.745	213.741	269.988	303.737
130	0.000	0.000	179.992	238.489	256.489
135	0.000	0.000	141.744	200.241	222.740
140	0.000	0.000	128.244	184.492	200.241
145	0.000	0.000	0.000	166.493	170.992
150	0.000	0.000	0.000	128.244	128.244
155	0.000	0.000	0.000	0.000	110.245
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	4849.43	N.A.	13.50
0-30	10109.63	N.A.	28.10
0-40	16200.78	N.A.	45.00
0-60	27362.24	N.A.	76.00
0-80	33554.42	N.A.	93.20
0-90	34666.32	N.A.	96.30
10-90	33398.61	N.A.	92.80
20-40	11351.35	N.A.	31.50
20-50	17415.9	N.A.	48.40
40-70	14979.5	N.A.	41.60
60-80	6192.18	N.A.	17.20
70-80	2374.14	N.A.	6.60
80-90	1111.9	N.A.	3.10
90-110	785.95	N.A.	2.20
90-120	1027.19	N.A.	2.90
90-130	1189.36	N.A.	3.30
90-150	1324.07	N.A.	3.70
90-180	1333.34	N.A.	3.70
110-180	547.39	N.A.	1.50
0-180	35999.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1267.71
10-20	3581.71
20-30	5260.2
30-40	6091.15
40-50	6064.55
50-60	5096.91
60-70	3818.04
70-80	2374.14
80-90	1111.9
90-100	467.42
100-110	318.53
110-120	241.25
120-130	162.17
130-140	90.62
140-150	44.09
150-160	9.28
160-170	0.00
170-180	0.00

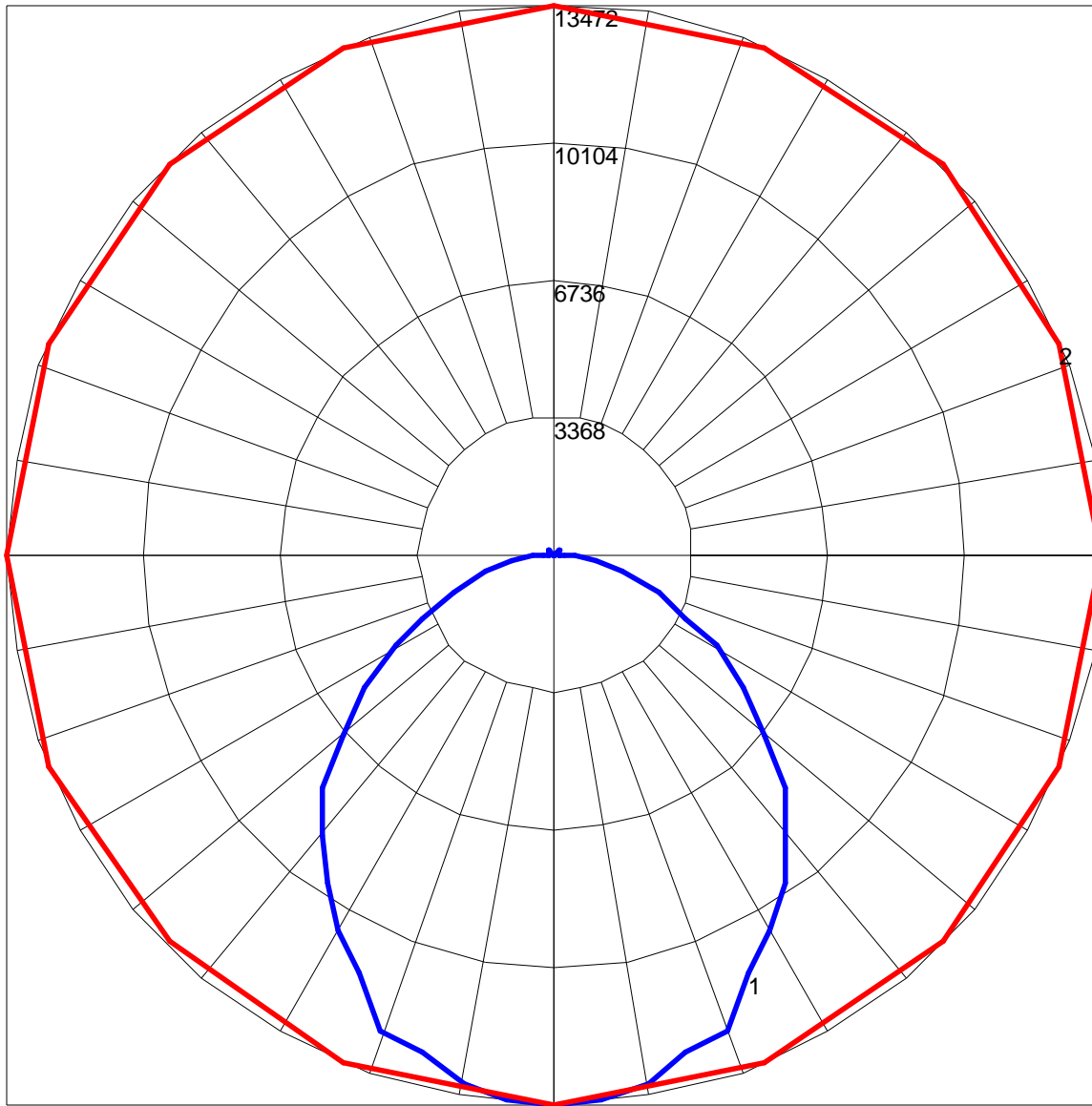
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 13472.402 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.)