



IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBR48-LED114DMV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]P177648
 [TESTLAB]PHOTOPIA
 [ISSUE DATE]6/14/2016
 [MANUFAC] MOBERN LIGHTING CO
 [LUMCAT]FHBR48-LED114DMV40
 [LUMINAIRE] 4' WHITE BAFFLED HIGH BAY
 [BALLAST] 2 OSRAM DRIVERS OTi50 @ 1110mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12806
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	114
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11771	13662	16222
55	9705	12480	15811
65	6565	11381	9126
75	5463	6811	6034
85	4345	6787	4818

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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>
0.0	5078.014	5078.014	5078.014	5078.014	5078.014
2.5	5062.569	5068.371	5056.766	5085.779	5079.977
5.0	5114.793	5126.398	5081.939	5056.766	5070.334
7.5	4981.417	5006.505	5076.137	5043.283	5047.123
10.0	4890.537	4894.377	4958.206	5060.606	5014.270
12.5	4894.377	4886.697	4857.683	5033.555	4973.651
15.0	4751.358	4824.830	4815.187	4944.638	4927.230
17.5	4567.721	4639.230	4784.211	4855.721	4880.894
20.0	4523.262	4498.174	4672.083	4741.715	4815.187
22.5	4351.230	4451.753	4500.052	4654.675	4749.395
25.0	4177.236	4254.548	4372.478	4585.129	4670.206
27.5	4020.649	4103.764	4312.574	4519.422	4587.092
30.0	3869.865	3947.262	4157.950	4436.308	4500.052
32.5	3705.599	3802.281	4001.364	4335.785	4399.529
35.0	3471.700	3612.841	3848.617	4175.358	4289.364
37.5	3311.273	3404.031	3680.511	4005.204	4163.753
40.0	3087.017	3235.839	3543.209	3873.790	4036.180
42.5	2880.170	3027.113	3336.361	3709.439	3898.878
45.0	2719.743	2802.858	3156.649	3535.529	3748.095
47.5	2433.706	2644.394	2961.407	3349.929	3587.668
50.0	2257.748	2402.730	2764.202	3172.095	3419.476
52.5	2029.653	2192.042	2541.908	2974.889	3231.999
55.0	1818.965	1961.983	2338.986	2789.375	2963.284
57.5	1579.263	1762.901	2128.298	2578.687	2114.730
60.0	1353.130	1536.767	1896.277	1741.653	1519.359
62.5	1136.640	1299.029	1824.767	1310.549	1393.749
65.0	906.581	1105.664	1571.583	1181.098	1260.288
67.5	744.192	883.370	906.581	1057.365	1126.912
70.0	632.064	699.733	782.848	937.557	987.733
72.5	548.949	577.962	680.448	833.109	840.874
75.0	461.994	568.320	576.000	634.026	510.293
77.5	369.237	458.154	498.688	369.237	260.949
80.0	289.963	311.211	384.683	324.779	231.936
82.5	201.045	230.059	266.752	280.320	191.403
85.0	123.733	152.747	193.280	230.059	137.216
87.5	52.224	83.115	133.376	177.835	75.349
90.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1846.83	N.A.	14.40
0-30	3885.46	N.A.	30.30
0-40	6312.06	N.A.	49.30
0-60	10832.75	N.A.	84.60
0-80	12616.86	N.A.	98.50
0-90	12805.97	N.A.	100.00
10-90	12324.93	N.A.	96.20
20-40	4465.23	N.A.	34.90
20-50	6918.73	N.A.	54.00
40-70	5715.18	N.A.	44.60
60-80	1784.11	N.A.	13.90
70-80	589.62	N.A.	4.60
80-90	189.11	N.A.	1.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	12805.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	481.04
10-20	1365.79
20-30	2038.63
30-40	2426.6
40-50	2453.5
50-60	2067.19
60-70	1194.49
70-80	589.62
80-90	189.11
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

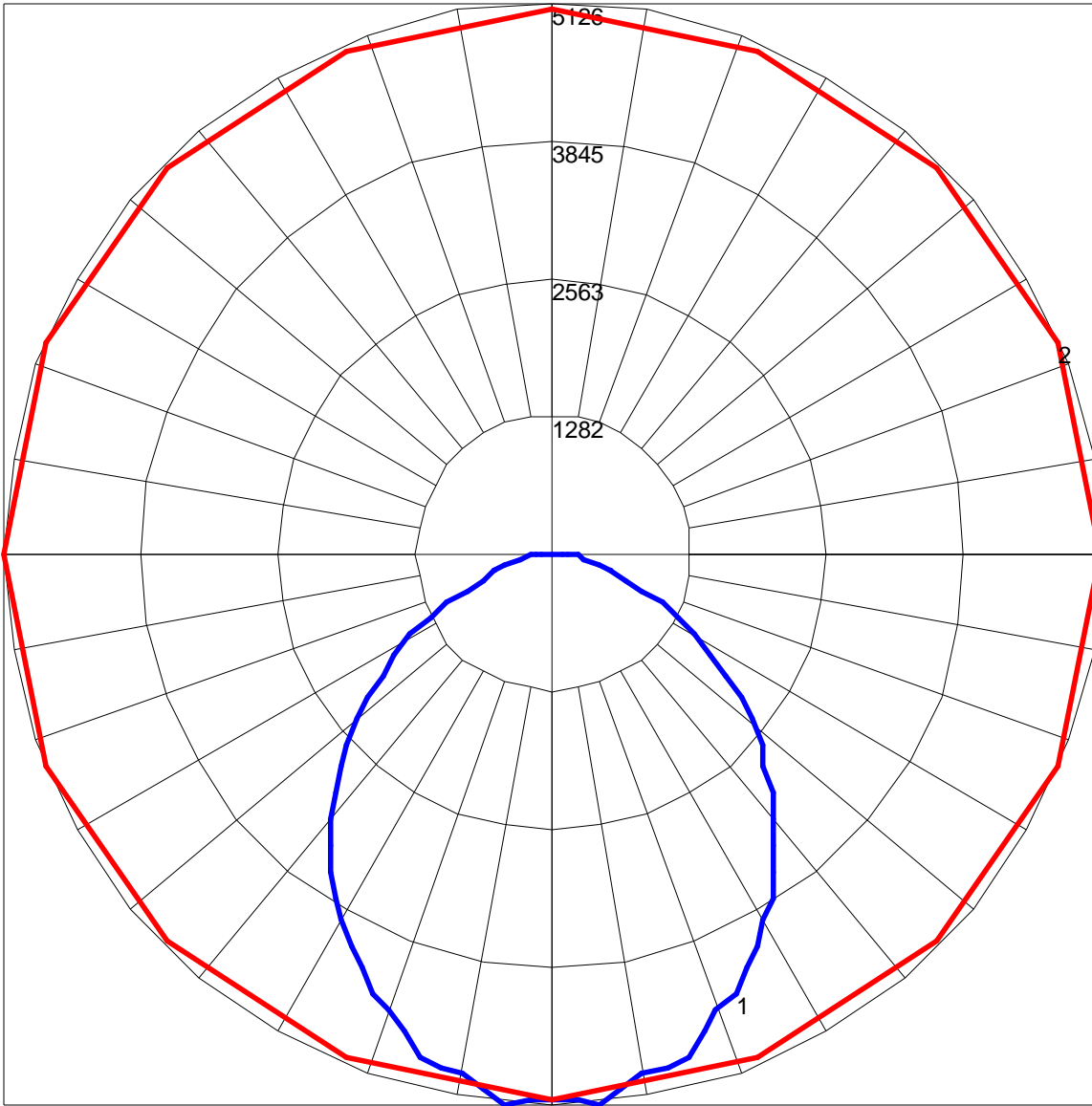
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	49	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

POLAR GRAPH



Maximum Candela = 5126.398 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)