



IES INDOOR REPORT
PHOTOMETRIC FILENAME : FHBR48-LED57DMV40.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-LED57DMV40
 [LUMINAIRE] 4' WHITE BAFFLED HIGH BAY
 [BALLAST] 1 OSRAM DRIVERS OTi50 @ 1110mA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6403
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	57
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	5886	6831	8111
55	4853	6240	7905
65	3282	5690	4563
75	2731	3405	3017
85	2172	3393	2409

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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	2539.010	2539.010	2539.010	2539.010	2539.010
2.5	2531.287	2534.189	2528.386	2542.893	2539.991
5.0	2557.399	2563.202	2540.973	2528.386	2535.170
7.5	2490.711	2503.255	2538.071	2521.645	2523.565
10.0	2445.271	2447.191	2479.106	2530.306	2507.138
12.5	2447.191	2443.351	2428.845	2516.781	2486.829
15.0	2375.682	2412.418	2407.597	2472.322	2463.618
17.5	2283.863	2319.618	2392.109	2427.863	2440.450
20.0	2261.634	2249.090	2336.045	2370.861	2407.597
22.5	2175.618	2225.879	2250.028	2327.341	2374.701
25.0	2088.620	2127.276	2186.242	2292.567	2335.106
27.5	2010.327	2051.884	2156.290	2259.714	2293.548
30.0	1934.935	1973.634	2078.978	2218.156	2250.028
32.5	1852.801	1901.143	2000.684	2167.895	2199.767
35.0	1735.852	1806.423	1924.311	2087.682	2144.684
37.5	1655.639	1702.017	1840.257	2002.604	2081.879
40.0	1543.511	1617.921	1771.607	1936.898	2018.092
42.5	1440.086	1513.559	1668.183	1854.721	1949.442
45.0	1359.873	1401.430	1578.327	1767.767	1874.049
47.5	1216.854	1322.198	1480.705	1674.967	1793.836
50.0	1128.876	1201.366	1382.102	1586.049	1709.740
52.5	1014.827	1096.022	1270.956	1487.447	1616.001
55.0	909.483	980.993	1169.494	1394.689	1481.644
57.5	789.633	881.451	1064.150	1289.345	1057.366
60.0	676.566	768.385	948.139	870.827	759.681
62.5	568.320	649.515	912.385	655.275	696.875
65.0	453.291	552.832	785.793	590.550	630.144
67.5	372.096	441.686	453.291	528.683	563.456
70.0	316.032	349.867	391.424	468.779	493.867
72.5	274.475	288.982	340.224	416.555	420.438
75.0	230.998	284.160	288.000	317.014	255.147
77.5	184.619	229.078	249.344	184.619	130.475
80.0	144.981	155.605	192.341	162.389	115.968
82.5	100.523	115.029	133.376	140.160	95.701
85.0	61.867	76.373	96.640	115.029	68.608
87.5	26.112	41.557	66.688	88.917	37.675
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	923.42	N.A.	14.40
0-30	1942.73	N.A.	30.30
0-40	3156.03	N.A.	49.30
0-60	5416.38	N.A.	84.60
0-80	6308.44	N.A.	98.50
0-90	6402.99	N.A.	100.00
10-90	6162.47	N.A.	96.20
20-40	2232.62	N.A.	34.90
20-50	3459.37	N.A.	54.00
40-70	2857.59	N.A.	44.60
60-80	892.06	N.A.	13.90
70-80	294.81	N.A.	4.60
80-90	94.56	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	6402.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	240.52
10-20	682.89
20-30	1019.32
30-40	1213.3
40-50	1226.75
50-60	1033.6
60-70	597.25
70-80	294.81
80-90	94.56
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

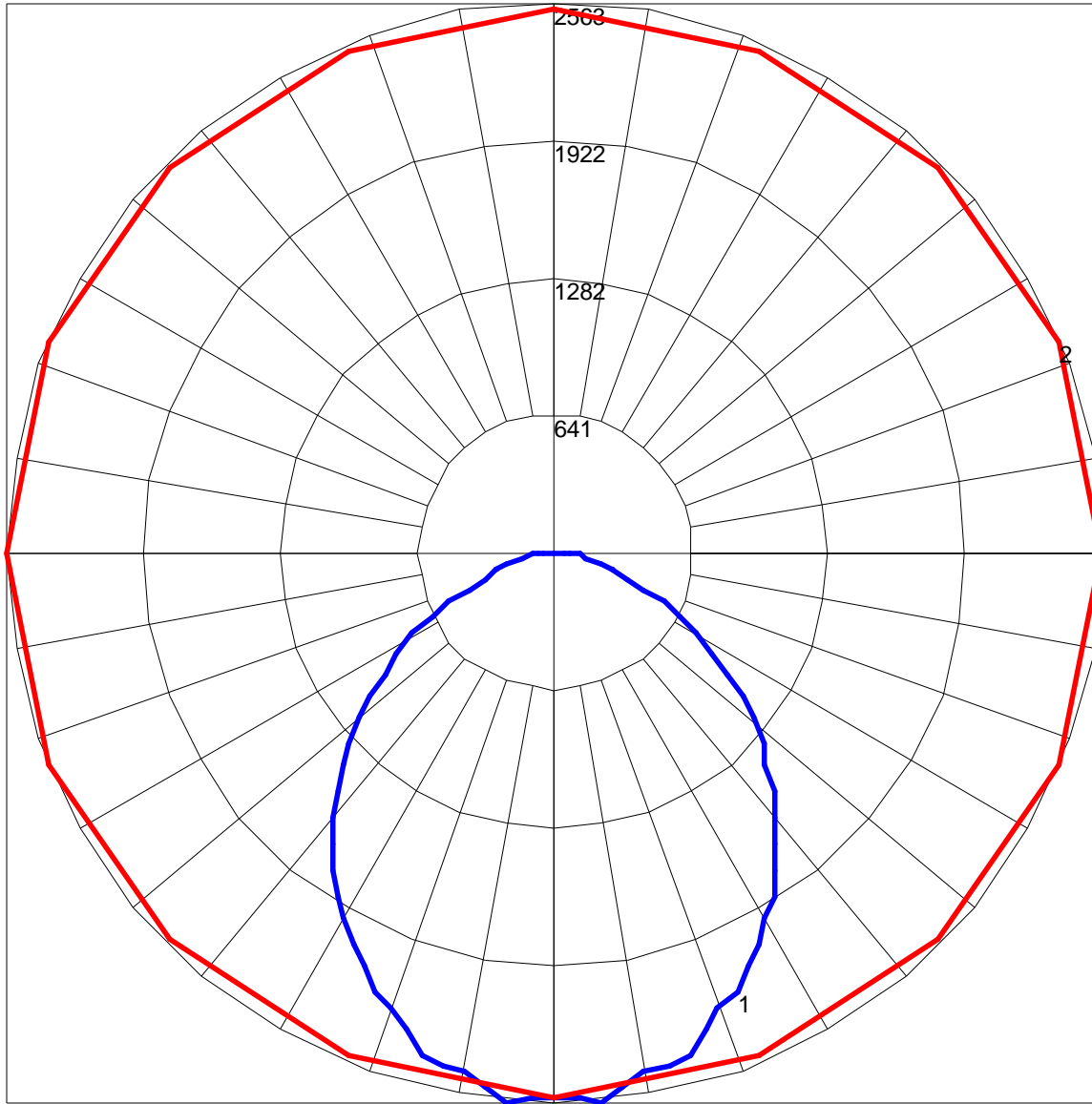
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2563.202 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.)