



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 96-4-L67-840-HIAFR-POEX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20008.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 15-AUG-2017
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56 LED 22"ARRAYS 4'VAPORTITE LUMINAIRE
 [MORE] WHITE FLAT REFLECTOR w/HIAFR LENS
 [MORE] EVERLINE LED DRIVER #D15CC55UNVTW-C @ 1029mA
 [LUMCAT] 96-4-L67-840-HIAFR-POEx
 [LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6724
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	49.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.25 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9859	8160	7788
55	8233	6743	6630
65	6302	5554	6037
75	4117	4622	5448
85	1591	3792	4547

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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	2422.479	2422.479	2422.479	2422.479	2422.479
5	2458.012	2409.938	2401.578	2392.172	2385.902
10	2421.434	2374.406	2348.279	2326.333	2311.702
15	2360.820	2304.386	2266.763	2235.411	2215.555
20	2270.944	2205.104	2163.301	2101.642	2075.515
25	2159.121	2080.740	2030.577	1957.422	1949.061
30	2020.126	1936.520	1886.357	1850.824	1862.320
35	1860.230	1774.534	1741.092	1753.633	1780.804
40	1663.756	1580.150	1601.052	1605.232	1631.359
45	1431.750	1376.361	1441.156	1435.930	1451.606
50	1202.879	1179.887	1244.682	1262.448	1265.583
55	985.504	997.000	1052.389	1100.462	1109.868
60	778.579	819.337	878.906	969.828	983.414
65	570.610	627.044	726.326	838.149	865.320
70	392.947	453.562	594.647	710.650	750.362
75	241.412	309.342	469.238	592.556	625.999
80	119.138	199.609	358.460	477.598	494.320
85	39.713	124.364	262.313	369.956	377.271
90	15.676	80.471	193.339	275.899	284.260
95	14.631	55.389	156.761	216.330	226.781
100	12.541	34.487	119.138	168.257	179.753
105	8.361	19.856	87.786	130.634	144.220
110	5.225	7.316	62.704	101.372	112.868
115	4.180	2.090	40.758	75.245	88.831
120	2.090	1.045	25.082	54.344	63.749
125	0.000	0.000	8.361	33.442	43.893
130	0.000	0.000	0.000	15.676	25.082
135	0.000	0.000	0.000	5.225	9.406
140	0.000	0.000	0.000	4.180	4.180
145	0.000	0.000	0.000	2.090	2.090
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
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	867.99	N.A.	12.90
0-30	1805.51	N.A.	26.90
0-40	2910.94	N.A.	43.30
0-60	4952.02	N.A.	73.60
0-80	6157.00	N.A.	91.60
0-90	6427.71	N.A.	95.60
10-90	6199.69	N.A.	92.20
20-40	2042.95	N.A.	30.40
20-50	3140.7	N.A.	46.70
40-70	2765.3	N.A.	41.10
60-80	1204.98	N.A.	17.90
70-80	480.76	N.A.	7.20
80-90	270.71	N.A.	4.00
90-110	235.81	N.A.	3.50
90-120	277.71	N.A.	4.10
90-130	292.95	N.A.	4.40
90-150	296.13	N.A.	4.40
90-180	296.13	N.A.	4.40
110-180	60.32	N.A.	0.90
0-180	6723.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	228.02
10-20	639.97
20-30	937.52
30-40	1105.43
40-50	1097.75
50-60	943.33
60-70	724.22
70-80	480.76
80-90	270.71
90-100	151.19
100-110	84.62
110-120	41.90
120-130	15.24
130-140	2.68
140-150	0.51
150-160	0.00
160-170	0.00
170-180	0.00

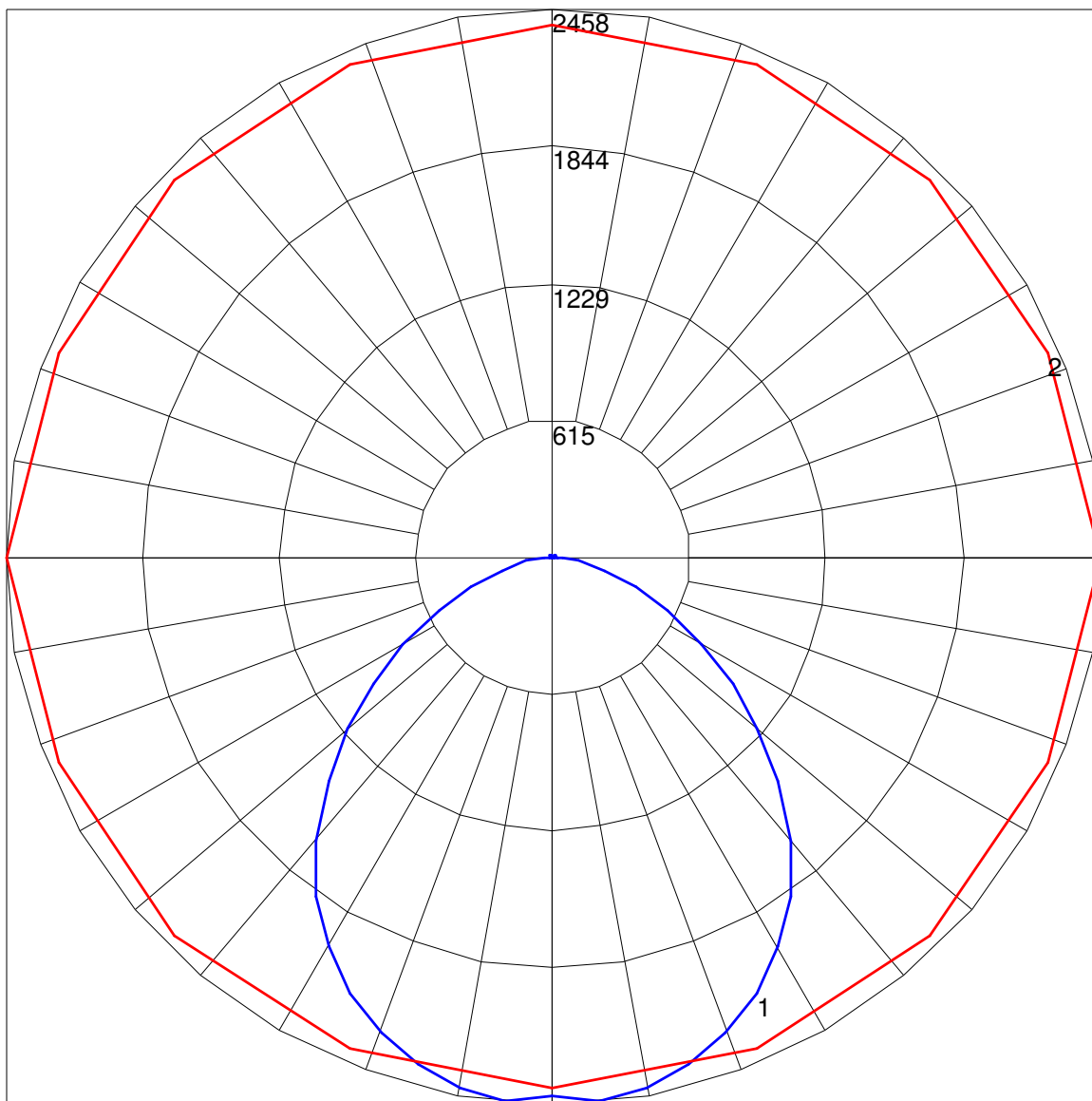
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	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	103	103	103	98	98	98	96
1	107	102	97	93	104	99	95	91	94	91	88	89	87	84	85	83	81	78
2	97	89	82	76	94	86	80	75	82	77	72	78	74	70	75	71	68	65
3	89	78	70	63	86	76	68	62	72	66	61	69	64	59	66	61	57	55
4	81	69	60	54	79	68	59	53	65	57	52	62	56	51	59	54	49	47
5	75	62	53	46	72	61	52	46	58	51	45	56	49	44	53	48	43	41
6	69	56	47	41	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	36	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	37	31	42	36	31	41	35	30	29
9	56	43	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	31	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 2458.012 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)