



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AXA-4-L8-835-S-LVRS-DIM-UNV.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 18640.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 23-JAN-2015

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-56 LED 22"ARRAYS 4'SUSPEND BIDIRECT WHITE REFL LUMINAIRE

[MORE] 23PER SIDE .125"X2"SLOTS w/WHT ACRYLIC OVERLAY & 24CELL

[MORE] 2"OC 1.25"DP WHT BLADE LVR w/OVERLAY EVERLINE #D21CC80UNV

[LUMCAT] AXA-4-L8-835-S-LVRS-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Architectural, Classroom, Office, Direct-Indirect

[\_SEARCH\_MOUNTING] Suspended

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3695
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	30.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.84 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.26 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10657	6751	6204
55	8673	4607	3822
65	6604	2707	1994
75	4213	1331	1028
85	2551	499	416

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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>
<b>0</b>	1727.798	1727.798	1727.798	1727.798	1727.798
<b>5</b>	1683.698	1682.910	1686.848	1692.360	1695.510
<b>10</b>	1631.722	1633.297	1643.535	1656.922	1664.797
<b>15</b>	1552.183	1557.696	1565.571	1584.471	1601.009
<b>20</b>	1453.745	1459.257	1466.345	1490.758	1516.745
<b>25</b>	1333.255	1334.043	1340.343	1362.393	1391.531
<b>30</b>	1245.842	1243.479	1245.842	1264.742	1298.605
<b>35</b>	1108.815	1105.665	1104.090	1118.265	1151.340
<b>40</b>	991.476	986.751	978.088	984.388	1015.889
<b>45</b>	900.125	889.887	873.349	868.624	898.550
<b>50</b>	744.197	733.172	710.335	693.009	711.122
<b>55</b>	610.321	595.358	563.858	531.570	536.295
<b>60</b>	466.994	451.244	415.018	377.218	373.280
<b>65</b>	357.530	340.205	302.404	269.329	262.241
<b>70</b>	243.341	227.591	202.390	182.702	175.615
<b>75</b>	152.777	144.902	129.939	122.852	122.064
<b>80</b>	97.651	91.351	81.114	80.326	80.326
<b>85</b>	44.101	39.376	40.163	41.738	42.526
<b>90</b>	3.938	6.300	11.025	12.600	14.963
<b>95</b>	0.000	4.725	8.663	11.813	12.600
<b>100</b>	1.575	6.300	9.450	12.600	14.175
<b>105</b>	1.575	6.300	9.450	14.175	14.175
<b>110</b>	3.938	8.663	12.600	14.963	15.750
<b>115</b>	4.725	8.663	14.175	14.963	15.750
<b>120</b>	6.300	11.025	14.963	18.113	18.113
<b>125</b>	6.300	11.813	17.325	18.113	18.113
<b>130</b>	8.663	14.175	17.325	18.113	18.113
<b>135</b>	11.025	14.963	19.688	19.688	20.475
<b>140</b>	14.963	18.113	20.475	22.838	22.838
<b>145</b>	15.750	18.113	20.475	22.838	20.475
<b>150</b>	18.113	19.688	22.050	23.625	22.838
<b>155</b>	18.113	20.475	22.050	23.625	22.838
<b>160</b>	19.688	21.263	23.625	24.413	23.625
<b>165</b>	21.263	25.200	26.775	28.350	26.775
<b>170</b>	22.838	22.838	22.838	25.988	23.625
<b>175</b>	23.625	23.625	23.625	23.625	22.050
<b>180</b>	22.050	22.050	22.050	22.050	22.050

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	601.96	N.A.	16.30
0-30	1228.11	N.A.	33.20
0-40	1928.1	N.A.	52.20
0-60	3103.34	N.A.	84.00
0-80	3555.44	N.A.	96.20
0-90	3603.8	N.A.	97.50
10-90	3443.72	N.A.	93.20
20-40	1326.14	N.A.	35.90
20-50	1995.64	N.A.	54.00
40-70	1479.99	N.A.	40.10
60-80	452.10	N.A.	12.20
70-80	147.35	N.A.	4.00
80-90	48.36	N.A.	1.30
90-110	19.88	N.A.	0.50
90-120	32.18	N.A.	0.90
90-130	45.53	N.A.	1.20
90-150	71.97	N.A.	1.90
90-180	91.29	N.A.	2.50
110-180	71.41	N.A.	1.90
0-180	3695.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	160.08
10-20	441.88
20-30	626.15
30-40	699.99
40-50	669.51
50-60	505.73
60-70	304.75
70-80	147.35
80-90	48.36
90-100	9.45
100-110	10.43
110-120	12.30
120-130	13.35
130-140	13.69
140-150	12.76
150-160	10.11
160-170	6.98
170-180	2.23

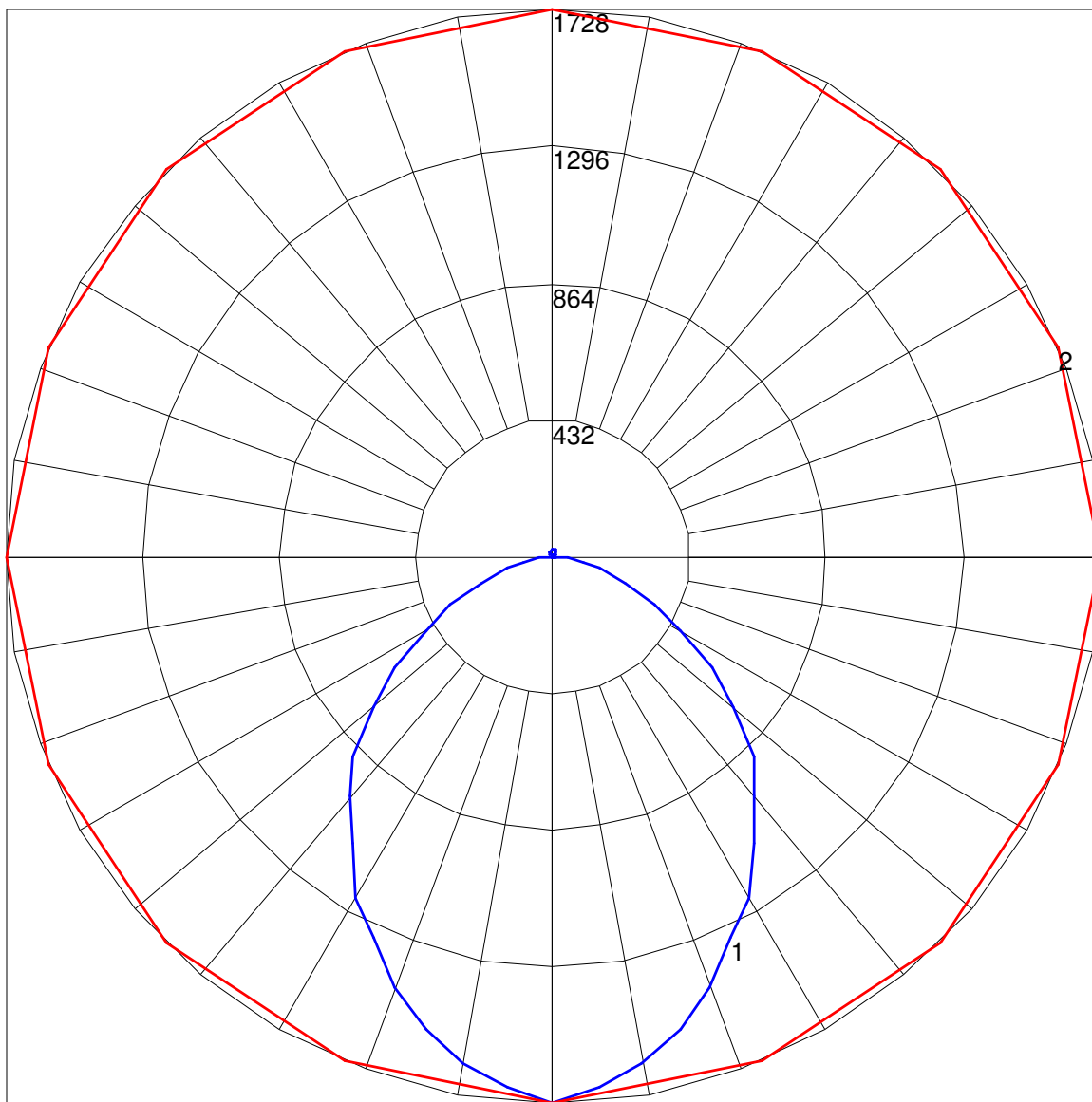
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	136	136	136	136	132	132	132	132	126	126	126	120	120	120	114	114	114	112
1	125	121	116	112	122	118	114	110	112	109	106	107	105	102	103	101	99	96
2	115	107	100	94	112	104	98	93	100	95	90	96	91	88	92	88	85	83
3	106	95	87	80	103	93	85	79	89	83	77	86	80	75	83	78	74	71
4	98	85	76	69	95	83	75	68	80	73	67	77	71	66	75	69	65	62
5	90	77	67	60	88	75	66	60	73	65	59	70	63	58	68	62	57	55
6	84	70	60	53	82	68	59	53	66	58	52	64	57	51	62	56	51	49
7	78	63	54	47	76	62	53	47	60	52	47	59	51	46	57	50	46	43
8	73	58	49	43	71	57	49	42	56	48	42	54	47	42	52	46	41	39
9	68	54	45	39	66	53	44	38	51	44	38	50	43	38	49	42	37	35
10	64	50	41	35	63	49	41	35	48	40	35	46	39	35	45	39	34	32

POLAR GRAPH



Maximum Candela = 1727.798 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.)