



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AXA-4-L14-835-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-L14-835-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	5645
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	53.8
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	16281	10314	9478
55	13250	7038	5840
65	10088	4136	3046
75	6436	2034	1571
85	3897	762	635

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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	2639.628	2639.628	2639.628	2639.628	2639.628
5	2572.253	2571.050	2577.066	2585.488	2590.300
10	2492.848	2495.254	2510.895	2531.348	2543.379
15	2371.334	2379.756	2391.787	2420.661	2445.927
20	2220.945	2229.367	2240.195	2277.491	2317.194
25	2036.869	2038.072	2047.697	2081.384	2125.899
30	1903.323	1899.714	1903.323	1932.198	1983.932
35	1693.982	1689.169	1686.763	1708.419	1758.950
40	1514.718	1507.499	1494.265	1503.890	1552.014
45	1375.157	1359.517	1334.251	1327.033	1372.751
50	1136.941	1120.097	1085.207	1058.739	1086.410
55	932.412	909.553	861.428	812.101	819.319
60	713.445	689.383	634.040	576.291	570.275
65	546.213	519.744	461.995	411.464	400.636
70	371.762	347.699	309.200	279.122	268.294
75	233.404	221.373	198.513	187.685	186.482
80	149.186	139.561	123.921	122.717	122.717
85	67.374	60.156	61.359	63.765	64.968
90	6.016	9.625	16.844	19.250	22.859
95	0.000	7.219	13.234	18.047	19.250
100	2.406	9.625	14.437	19.250	21.656
105	2.406	9.625	14.437	21.656	21.656
110	6.016	13.234	19.250	22.859	24.062
115	7.219	13.234	21.656	22.859	24.062
120	9.625	16.844	22.859	27.672	27.672
125	9.625	18.047	26.468	27.672	27.672
130	13.234	21.656	26.468	27.672	27.672
135	16.844	22.859	30.078	30.078	31.281
140	22.859	27.672	31.281	34.890	34.890
145	24.062	27.672	31.281	34.890	31.281
150	27.672	30.078	33.687	36.093	34.890
155	27.672	31.281	33.687	36.093	34.890
160	30.078	32.484	36.093	37.296	36.093
165	32.484	38.500	40.906	43.312	40.906
170	34.890	34.890	34.890	39.703	36.093
175	36.093	36.093	36.093	36.093	33.687
180	33.687	33.687	33.687	33.687	33.687

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	919.64	N.A.	16.30
0-30	1876.23	N.A.	33.20
0-40	2945.63	N.A.	52.20
0-60	4741.09	N.A.	84.00
0-80	5431.79	N.A.	96.20
0-90	5505.67	N.A.	97.50
10-90	5261.11	N.A.	93.20
20-40	2025.99	N.A.	35.90
20-50	3048.82	N.A.	54.00
40-70	2261.04	N.A.	40.10
60-80	690.69	N.A.	12.20
70-80	225.11	N.A.	4.00
80-90	73.88	N.A.	1.30
90-110	30.38	N.A.	0.50
90-120	49.17	N.A.	0.90
90-130	69.56	N.A.	1.20
90-150	109.95	N.A.	1.90
90-180	139.47	N.A.	2.50
110-180	109.09	N.A.	1.90
0-180	5645.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	244.56
10-20	675.08
20-30	956.59
30-40	1069.4
40-50	1022.83
50-60	772.63
60-70	465.58
70-80	225.11
80-90	73.88
90-100	14.44
100-110	15.94
110-120	18.79
120-130	20.39
130-140	20.91
140-150	19.49
150-160	15.45
160-170	10.66
170-180	3.41

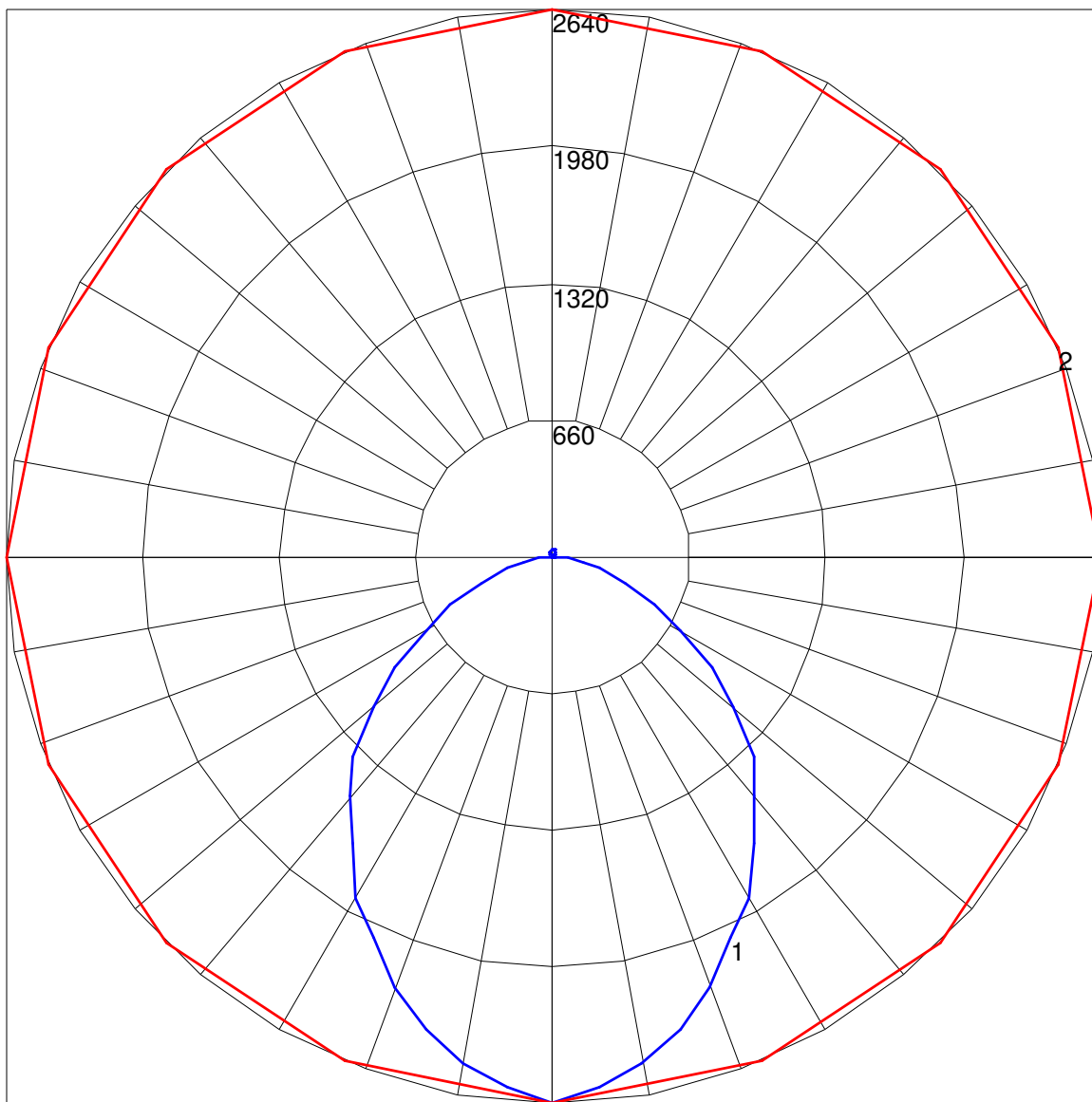
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	207	207	207	207	202	202	202	202	192	192	192	183	183	183	175	175	175	171
1	192	184	178	172	187	180	174	168	172	167	162	164	160	157	157	154	151	147
2	176	163	152	143	171	160	150	141	153	145	137	146	140	134	141	135	130	126
3	162	145	132	122	157	142	130	120	136	126	118	131	123	115	126	119	113	109
4	149	130	116	105	145	127	114	104	123	111	102	118	108	100	114	106	99	95
5	138	117	103	92	134	115	101	91	111	99	90	107	97	88	104	94	87	84
6	128	106	92	81	125	104	91	81	101	89	80	98	87	79	95	85	78	74
7	119	97	82	72	116	95	82	72	92	80	71	89	79	70	87	77	70	66
8	111	89	75	65	108	87	74	65	85	73	64	82	72	64	80	70	63	60
9	104	82	68	59	102	81	68	59	78	67	58	76	66	58	74	64	57	54
10	98	76	63	54	96	75	62	54	73	61	53	71	60	53	69	59	52	49

POLAR GRAPH



Maximum Candela = 2639.628 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.)