



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AXA-8-L8-840-LVRX-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  
 [ISSUEDATE] 02/18/2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 8' SUSPENDED 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-8-L8-840-LVRx-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 4000K 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	6366
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	59.4
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)	8.00 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	9122	5675	5136
55	7524	3886	3164
65	5852	2293	1651
75	3895	1133	851
85	2730	427	344

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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	2976.771	2976.771	2976.771	2976.771	2976.771
5	2900.791	2899.435	2906.219	2915.716	2921.143
10	2811.244	2813.958	2831.596	2854.661	2868.229
15	2674.209	2683.707	2697.275	2729.837	2758.330
20	2504.612	2514.110	2526.321	2568.381	2613.154
25	2297.025	2298.382	2309.236	2347.226	2397.427
30	2146.423	2142.353	2146.423	2178.986	2237.327
35	1910.343	1904.916	1902.203	1926.625	1983.609
40	1708.184	1700.043	1685.118	1695.973	1750.244
45	1550.797	1533.159	1504.667	1496.526	1548.084
50	1282.155	1263.160	1223.814	1193.965	1225.171
55	1051.503	1025.724	971.453	915.825	923.966
60	804.569	777.434	715.022	649.897	643.113
65	615.977	586.128	521.003	464.018	451.807
70	419.244	392.109	348.692	314.773	302.561
75	263.215	249.647	223.868	211.657	210.301
80	168.240	157.386	139.748	138.391	138.391
85	75.980	67.839	69.196	71.909	73.266
90	6.784	10.854	18.995	21.708	25.779
95	0.000	8.141	14.925	20.352	21.708
100	2.714	10.854	16.281	21.708	24.422
105	2.714	10.854	16.281	24.422	24.422
110	6.784	14.925	21.708	25.779	27.136
115	8.141	14.925	24.422	25.779	27.136
120	10.854	18.995	25.779	31.206	31.206
125	10.854	20.352	29.849	31.206	31.206
130	14.925	24.422	29.849	31.206	31.206
135	18.995	25.779	33.919	33.919	35.276
140	25.779	31.206	35.276	39.347	39.347
145	27.136	31.206	35.276	39.347	35.276
150	31.206	33.919	37.990	40.703	39.347
155	31.206	35.276	37.990	40.703	39.347
160	33.919	36.633	40.703	42.060	40.703
165	36.633	43.417	46.130	48.844	46.130
170	39.347	39.347	39.347	44.774	40.703
175	40.703	40.703	40.703	40.703	37.990
180	37.990	37.990	37.990	37.990	37.990

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1037.1	N.A.	16.30
0-30	2115.87	N.A.	33.20
0-40	3321.86	N.A.	52.20
0-60	5346.64	N.A.	84.00
0-80	6125.56	N.A.	96.20
0-90	6208.88	N.A.	97.50
10-90	5933.08	N.A.	93.20
20-40	2284.76	N.A.	35.90
20-50	3438.23	N.A.	54.00
40-70	2549.83	N.A.	40.10
60-80	778.91	N.A.	12.20
70-80	253.87	N.A.	4.00
80-90	83.32	N.A.	1.30
90-110	34.26	N.A.	0.50
90-120	55.45	N.A.	0.90
90-130	78.44	N.A.	1.20
90-150	124.00	N.A.	1.90
90-180	157.29	N.A.	2.50
110-180	123.03	N.A.	1.90
0-180	6366.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	275.80
10-20	761.30
20-30	1078.77
30-40	1205.99
40-50	1153.47
50-60	871.31
60-70	525.05
70-80	253.87
80-90	83.32
90-100	16.29
100-110	17.97
110-120	21.19
120-130	22.99
130-140	23.58
140-150	21.98
150-160	17.42
160-170	12.02
170-180	3.84

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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	110	110	110	105	105	105	100	100	100	98
1	109	105	101	98	107	103	99	96	98	95	93	94	91	89	90	88	86	84
2	101	93	87	82	98	91	85	81	87	83	78	84	80	76	80	77	74	72
3	92	83	75	70	90	81	74	69	78	72	67	75	70	66	72	68	64	62
4	85	74	66	60	83	73	65	59	70	64	58	67	62	57	65	60	56	54
5	79	67	59	52	77	66	58	52	63	56	51	61	55	50	59	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	46	40	36	34
9	59	47	39	34	58	46	39	34	45	38	33	44	37	33	42	37	33	31
10	56	43	36	31	55	43	36	31	42	35	30	41	34	30	39	34	30	28

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**UGR TABLE - CORRECTED**

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

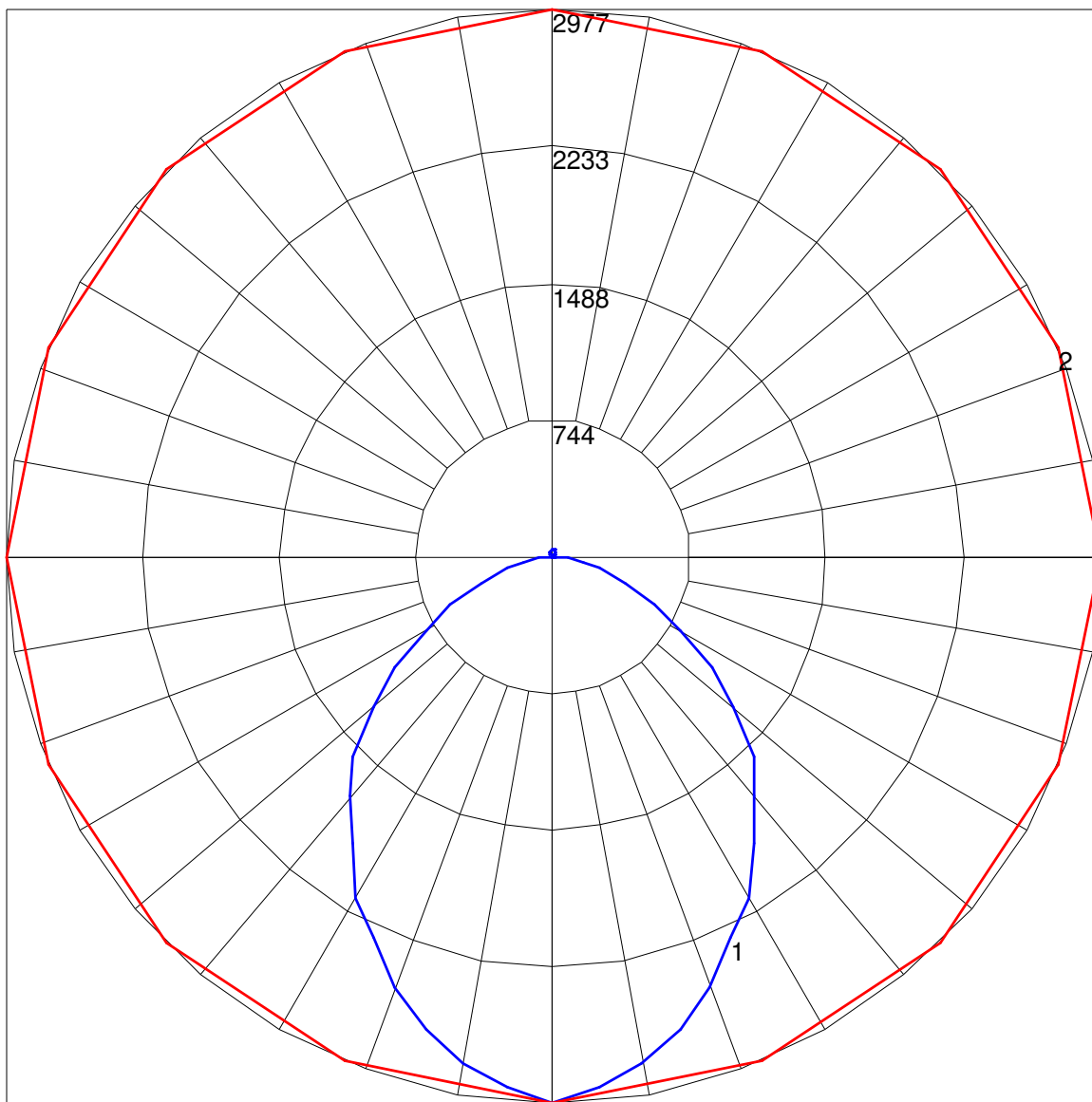
X=2H	Y=2H	15.7	17.2	16.1	17.5	17.9	16.2	17.7	16.6	18.0	18.4
	3H	16.7	18.0	17.1	18.4	18.8	17.2	18.5	17.6	18.9	19.3
	4H	16.9	18.2	17.3	18.5	19.0	17.5	18.8	18.0	19.2	19.6
	6H	17.0	18.2	17.5	18.6	19.1	17.9	19.0	18.3	19.4	19.9
	8H	17.1	18.2	17.5	18.6	19.1	18.0	19.1	18.4	19.5	20.0
	12H	17.1	18.1	17.5	18.6	19.0	18.1	19.1	18.5	19.5	20.0

UGR Viewed Endwise

4H	2H	16.0	17.3	16.5	17.7	18.1	16.4	17.7	16.9	18.1	18.5
	3H	17.1	18.2	17.6	18.6	19.1	17.6	18.6	18.0	19.1	19.5
	4H	17.4	18.4	17.9	18.8	19.3	18.0	18.9	18.5	19.4	19.9
	6H	17.7	18.5	18.2	19.0	19.5	18.4	19.2	18.9	19.7	20.2
	8H	17.7	18.5	18.2	19.0	19.5	18.6	19.3	19.0	19.8	20.3
	12H	17.7	18.4	18.3	18.9	19.4	18.7	19.4	19.2	19.9	20.4
8H	4H	17.5	18.3	18.0	18.8	19.3	18.1	18.8	18.6	19.3	19.8
	6H	17.8	18.4	18.3	19.0	19.5	18.5	19.1	19.0	19.7	20.2
	8H	17.9	18.4	18.4	19.0	19.5	18.7	19.3	19.2	19.8	20.3
	12H	17.9	18.4	18.5	19.0	19.6	18.9	19.4	19.4	19.9	20.5
12H	4H	17.5	18.2	18.1	18.7	19.2	18.1	18.7	18.6	19.2	19.8
	6H	17.8	18.4	18.4	18.9	19.5	18.5	19.1	19.1	19.6	20.1
	8H	17.9	18.4	18.4	18.9	19.5	18.7	19.2	19.2	19.7	20.3

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 2976.771 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.)