



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AXA-8-L8-8TW-S-LVRS-DIM-UNV 4000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 18718.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 14-JUL-2020

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

[LUMINAIRE] 2-56 LED 22" ARRAYS 8' SUSPEND BIDIRECT WHITE REFL LUMINAIRE

[MORE] 46 PER SIDE .125"x2" SLOTS w/WHT ACRYLIC OVERLAY & 24 CELL

[MORE] 2" OC 1.25" DP WHT BLADE LVRS w/OVERLAY

[LUMCAT] AXA-8-L8-8TW-S-LVRS-DIM-UNV 4000k

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6185
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	60.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.04
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.10
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	9511	5004	3378
55	7352	2904	2057
65	5394	1853	1521
75	3570	1100	833
85	2535	394	305

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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>	3437.248	3437.248	3437.248	3437.248	3437.248
<b>5</b>	3337.123	3337.123	3342.812	3355.328	3359.879
<b>10</b>	3251.789	3256.341	3273.407	3302.990	3324.608
<b>15</b>	3054.953	3057.228	3076.571	3110.704	3139.149
<b>20</b>	2920.694	2922.970	2928.658	2952.552	2990.099
<b>25</b>	2602.114	2598.701	2579.358	2572.532	2610.079
<b>30</b>	2315.392	2299.463	2242.574	2183.409	2206.165
<b>35</b>	2063.942	2029.808	1923.994	1804.527	1779.496
<b>40</b>	1799.976	1748.775	1591.761	1405.164	1336.897
<b>45</b>	1616.792	1540.561	1326.657	1087.722	1018.318
<b>50</b>	1303.902	1212.879	991.011	795.312	752.076
<b>55</b>	1027.420	934.121	725.907	616.679	600.750
<b>60</b>	765.729	678.120	537.035	499.488	497.212
<b>65</b>	567.755	493.799	420.980	408.465	416.429
<b>70</b>	382.296	342.473	318.580	312.891	306.064
<b>75</b>	241.210	230.970	217.317	208.215	205.939
<b>80</b>	151.325	145.636	133.121	129.707	128.570
<b>85</b>	70.543	64.854	63.716	62.578	64.854
<b>90</b>	6.827	11.378	13.653	15.929	17.067
<b>95</b>	1.138	5.689	11.378	13.653	15.929
<b>100</b>	2.276	7.964	11.378	13.653	17.067
<b>105</b>	2.276	7.964	12.516	15.929	17.067
<b>110</b>	5.689	12.516	15.929	18.205	18.205
<b>115</b>	6.827	11.378	17.067	19.342	19.342
<b>120</b>	7.964	15.929	19.342	22.756	22.756
<b>125</b>	13.653	19.342	23.893	27.307	26.169
<b>130</b>	17.067	23.893	27.307	28.445	28.445
<b>135</b>	15.929	21.618	26.169	27.307	27.307
<b>140</b>	21.618	27.307	29.582	31.858	29.582
<b>145</b>	26.169	29.582	31.858	34.134	31.858
<b>150</b>	29.582	32.996	34.134	37.547	34.134
<b>155</b>	31.858	34.134	37.547	38.685	35.271
<b>160</b>	31.858	32.996	35.271	38.685	35.271
<b>165</b>	34.134	36.409	39.822	44.374	39.822
<b>170</b>	34.134	34.134	35.271	38.685	36.409
<b>175</b>	35.271	35.271	35.271	38.685	34.134
<b>180</b>	34.134	34.134	34.134	34.134	34.134

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1192.3	N.A.	19.30
0-30	2384.16	N.A.	38.50
0-40	3581.43	N.A.	57.90
0-60	5288.65	N.A.	85.50
0-80	5979.12	N.A.	96.70
0-90	6055.3	N.A.	97.90
10-90	5737.17	N.A.	92.80
20-40	2389.12	N.A.	38.60
20-50	3395.25	N.A.	54.90
40-70	2158.49	N.A.	34.90
60-80	690.47	N.A.	11.20
70-80	239.20	N.A.	3.90
80-90	76.18	N.A.	1.20
90-110	24.65	N.A.	0.40
90-120	40.37	N.A.	0.70
90-130	60.32	N.A.	1.00
90-150	99.73	N.A.	1.60
90-180	130.07	N.A.	2.10
110-180	105.42	N.A.	1.70
0-180	6185.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	318.13
10-20	874.17
20-30	1191.86
30-40	1197.26
40-50	1006.12
50-60	701.10
60-70	451.27
70-80	239.20
80-90	76.18
90-100	11.87
100-110	12.78
110-120	15.72
120-130	19.95
130-140	19.83
140-150	19.58
150-160	16.33
160-170	10.60
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	110	106	102	99	107	103	100	97	99	96	94	95	92	90	91	89	87	85
2	101	94	88	84	99	92	87	82	89	84	80	85	81	78	82	79	76	74
3	94	85	77	72	91	83	76	71	80	74	70	77	72	68	74	70	67	65
4	87	76	68	63	84	75	68	62	72	66	61	70	64	60	67	63	59	57
5	81	69	61	55	78	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	55	49	60	53	48	58	52	48	57	51	47	45
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	52	47	43	41
8	66	53	46	40	64	53	45	40	51	44	40	50	44	39	49	43	39	37
9	62	49	42	37	60	49	42	37	47	41	36	46	40	36	45	40	36	34
10	58	46	39	34	57	45	38	34	44	38	33	43	37	33	42	37	33	31

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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

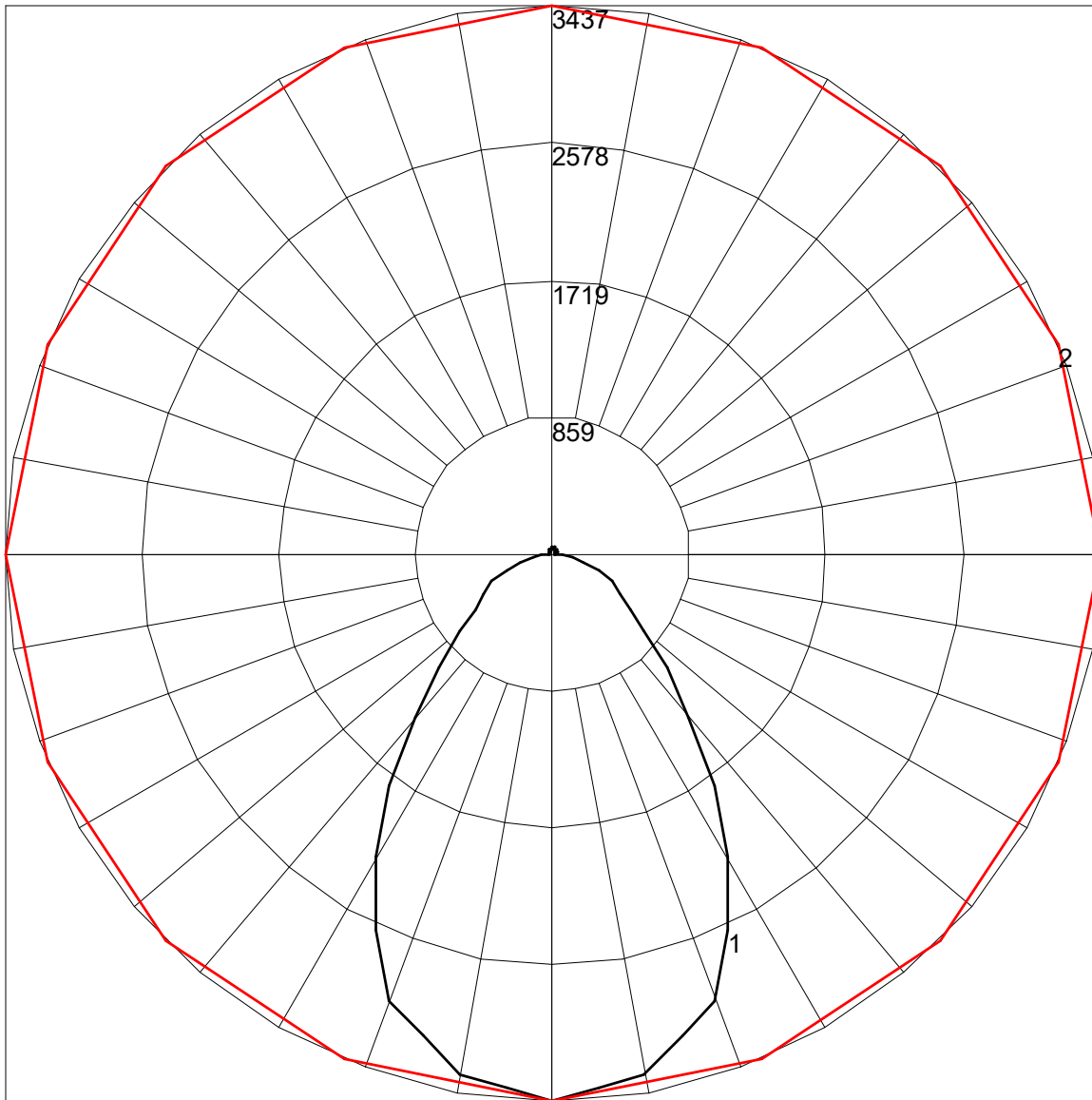
X=2H	Y=2H	15.2	16.6	15.6	17.0	17.3	14.0	15.4	14.4	15.8	16.2
	3H	16.1	17.4	16.5	17.8	18.2	15.8	17.0	16.2	17.4	17.8
	4H	16.4	17.6	16.8	18.0	18.4	16.3	17.5	16.8	17.9	18.3
	6H	16.5	17.6	17.0	18.0	18.5	16.7	17.8	17.2	18.3	18.7
	8H	16.5	17.6	17.0	18.0	18.5	16.9	17.9	17.4	18.4	18.8
	12H	16.5	17.5	17.0	18.0	18.4	17.0	18.0	17.5	18.4	18.9

### UGR Viewed Endwise

4H	2H	15.4	16.6	15.9	17.0	17.4	14.4	15.6	14.8	16.0	16.4
	3H	16.5	17.5	17.0	17.9	18.4	16.3	17.2	16.7	17.7	18.1
	4H	16.8	17.7	17.3	18.2	18.7	16.9	17.8	17.4	18.2	18.7
	6H	17.1	17.8	17.6	18.3	18.8	17.4	18.2	17.9	18.7	19.2
	8H	17.1	17.8	17.6	18.3	18.8	17.6	18.3	18.1	18.8	19.3
	12H	17.1	17.8	17.7	18.3	18.8	17.7	18.4	18.3	18.9	19.4
8H	4H	16.9	17.7	17.4	18.1	18.7	17.0	17.7	17.5	18.2	18.7
	6H	17.2	17.8	17.8	18.3	18.9	17.6	18.2	18.1	18.7	19.2
	8H	17.3	17.8	17.8	18.4	18.9	17.8	18.3	18.3	18.9	19.4
	12H	17.4	17.8	17.9	18.4	19.0	18.0	18.4	18.5	19.0	19.6
12H	4H	16.9	17.6	17.5	18.1	18.6	17.0	17.6	17.5	18.1	18.7
	6H	17.2	17.8	17.8	18.3	18.8	17.5	18.1	18.1	18.6	19.2
	8H	17.3	17.8	17.9	18.3	18.9	17.8	18.3	18.4	18.8	19.4

Maximum UGR = 19.6

POLAR GRAPH



Maximum Candela = 3437.248 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)