



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AXA-8-P14-835-S-LVRS-POE_.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" x 2" SLOTS w/WHT ACRYLIC OVERLAY & 24 CELL

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

[LUMCAT] AXA-8-P14-835-S-LVRS-PoE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10829
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	95.3
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	16650	8760	5915
55	12870	5084	3602
65	9443	3244	2664
75	6249	1926	1459
85	4437	689	533

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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	6017.548	6017.548	6017.548	6017.548	6017.548
5	5842.260	5842.260	5852.220	5874.131	5882.099
10	5692.867	5700.835	5730.714	5782.503	5820.349
15	5348.268	5352.252	5386.114	5445.871	5495.669
20	5113.223	5117.207	5127.166	5168.996	5234.729
25	4555.489	4549.513	4515.651	4503.700	4569.432
30	4053.529	4025.642	3926.047	3822.468	3862.306
35	3613.318	3553.560	3368.313	3159.163	3115.341
40	3151.195	3061.560	2786.677	2460.004	2340.490
45	2830.498	2697.041	2322.562	1904.262	1782.756
50	2282.724	2123.372	1734.950	1392.342	1316.650
55	1798.691	1635.355	1270.836	1079.613	1051.726
60	1340.553	1187.176	940.180	874.447	870.463
65	993.961	864.487	737.005	715.094	729.038
70	669.280	599.564	557.734	547.774	535.823
75	422.284	404.357	380.454	364.519	360.535
80	264.924	254.964	233.053	227.077	225.085
85	123.498	113.539	111.547	109.555	113.539
90	11.951	19.919	23.903	27.887	29.879
95	1.992	9.960	19.919	23.903	27.887
100	3.984	13.943	19.919	23.903	29.879
105	3.984	13.943	21.911	27.887	29.879
110	9.960	21.911	27.887	31.870	31.870
115	11.951	19.919	29.879	33.862	33.862
120	13.943	27.887	33.862	39.838	39.838
125	23.903	33.862	41.830	47.806	45.814
130	29.879	41.830	47.806	49.798	49.798
135	27.887	37.846	45.814	47.806	47.806
140	37.846	47.806	51.790	55.773	51.790
145	45.814	51.790	55.773	59.757	55.773
150	51.790	57.765	59.757	65.733	59.757
155	55.773	59.757	65.733	67.725	61.749
160	55.773	57.765	61.749	67.725	61.749
165	59.757	63.741	69.717	77.684	69.717
170	59.757	59.757	61.749	67.725	63.741
175	61.749	61.749	61.749	67.725	59.757
180	59.757	59.757	59.757	59.757	59.757

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2087.35	N.A.	19.30
0-30	4173.93	N.A.	38.50
0-40	6269.96	N.A.	57.90
0-60	9258.78	N.A.	85.50
0-80	10467.57	N.A.	96.70
0-90	10600.94	N.A.	97.90
10-90	10043.99	N.A.	92.80
20-40	4182.61	N.A.	38.60
20-50	5944.02	N.A.	54.90
40-70	3778.85	N.A.	34.90
60-80	1208.79	N.A.	11.20
70-80	418.76	N.A.	3.90
80-90	133.36	N.A.	1.20
90-110	43.16	N.A.	0.40
90-120	70.68	N.A.	0.70
90-130	105.61	N.A.	1.00
90-150	174.60	N.A.	1.60
90-180	227.72	N.A.	2.10
110-180	184.57	N.A.	1.70
0-180	10828.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	556.95
10-20	1530.4
20-30	2086.58
30-40	2096.03
40-50	1761.41
50-60	1227.41
60-70	790.03
70-80	418.76
80-90	133.36
90-100	20.79
100-110	22.37
110-120	27.52
120-130	34.93
130-140	34.71
140-150	34.28
150-160	28.59
160-170	18.57
170-180	5.97

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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	237	237	237	237	231	231	231	231	220	220	220	210	210	210	200	200	200	196
1	220	212	204	198	214	207	200	194	197	192	187	189	185	181	181	178	175	170
2	203	189	177	167	197	185	174	165	177	168	160	170	163	156	164	157	152	148
3	187	169	155	143	182	166	152	142	159	148	139	153	144	136	148	140	133	129
4	174	152	137	125	169	150	135	124	144	132	122	139	129	120	135	126	118	114
5	161	138	122	110	157	136	121	110	131	118	108	127	116	107	123	113	105	101
6	150	126	110	99	146	124	109	98	120	107	97	117	105	96	113	103	95	91
7	140	116	100	89	137	114	99	88	111	97	87	108	96	87	105	94	86	82
8	131	107	91	80	128	105	90	80	102	89	79	100	88	79	97	86	78	75
9	123	99	84	73	120	97	83	73	95	82	73	93	81	72	90	80	72	68
10	116	92	77	68	114	91	77	67	88	76	67	86	75	66	84	74	66	63

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UGR TABLE - CORRECTED

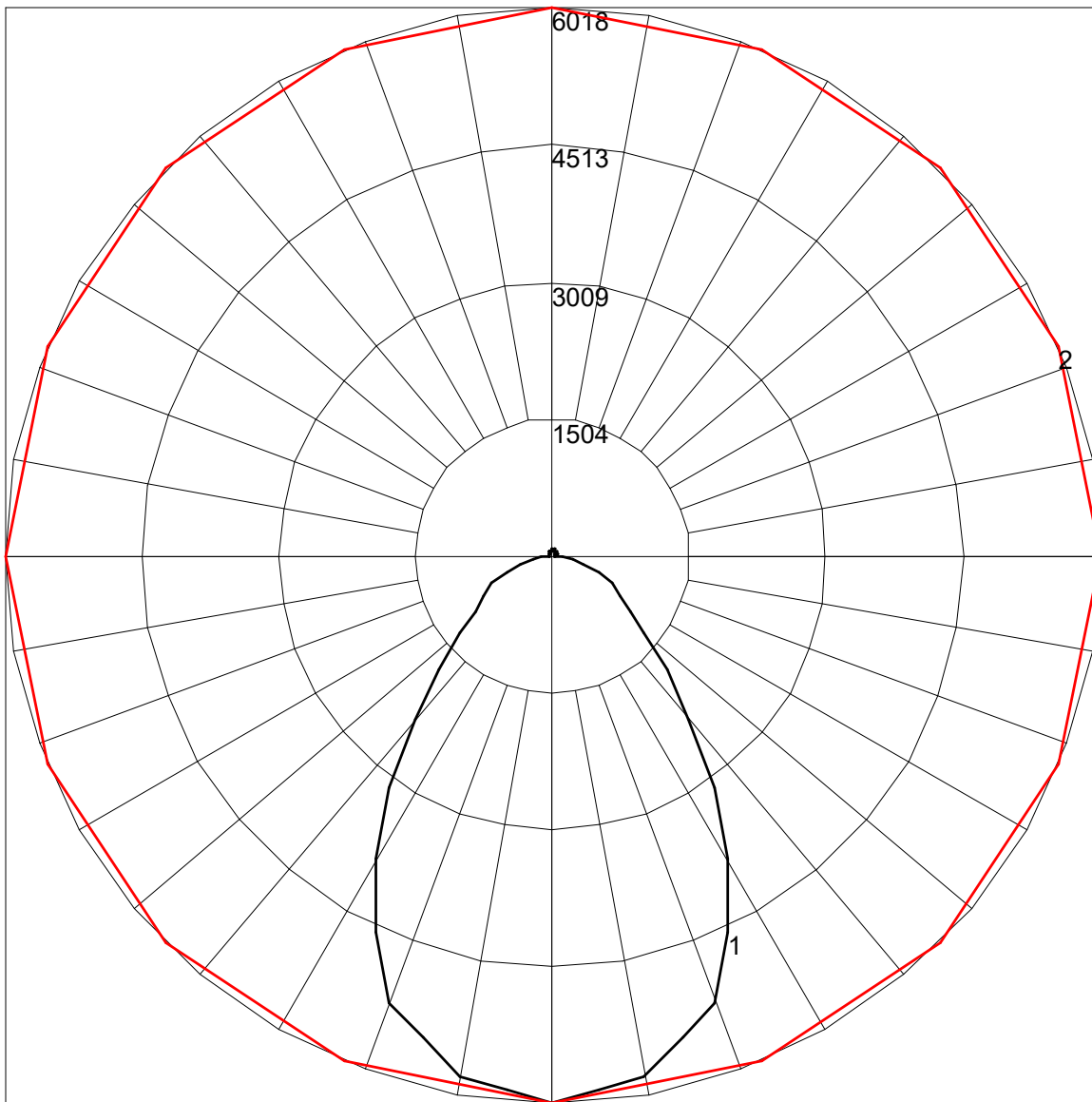
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.8	16.2	15.2	16.6	16.9	13.6	15.0	14.0	15.4	15.8
	3H	15.7	17.0	16.1	17.4	17.8	15.4	16.6	15.8	17.0	17.4
	4H	16.0	17.2	16.4	17.6	18.0	15.9	17.1	16.4	17.5	17.9
	6H	16.1	17.2	16.6	17.6	18.1	16.3	17.4	16.8	17.9	18.3
	8H	16.1	17.2	16.6	17.6	18.1	16.5	17.5	17.0	18.0	18.4
	12H	16.1	17.1	16.6	17.6	18.0	16.6	17.6	17.1	18.0	18.5
4H	2H	15.0	16.2	15.5	16.6	17.0	14.0	15.2	14.4	15.6	16.0
	3H	16.1	17.1	16.6	17.5	18.0	15.9	16.8	16.3	17.3	17.7
	4H	16.4	17.3	16.9	17.8	18.3	16.5	17.4	17.0	17.8	18.3
	6H	16.7	17.4	17.2	17.9	18.4	17.0	17.8	17.5	18.3	18.8
	8H	16.7	17.4	17.2	17.9	18.4	17.2	17.9	17.7	18.4	18.9
	12H	16.7	17.4	17.3	17.9	18.4	17.3	18.0	17.9	18.5	19.0
8H	4H	16.5	17.3	17.0	17.7	18.3	16.6	17.3	17.1	17.8	18.3
	6H	16.8	17.4	17.4	17.9	18.5	17.2	17.8	17.7	18.3	18.8
	8H	16.9	17.4	17.4	18.0	18.5	17.4	17.9	17.9	18.5	19.0
	12H	17.0	17.4	17.5	18.0	18.6	17.6	18.0	18.1	18.6	19.2
12H	4H	16.5	17.2	17.1	17.7	18.2	16.6	17.2	17.1	17.7	18.3
	6H	16.8	17.4	17.4	17.9	18.4	17.1	17.7	17.7	18.2	18.8
	8H	16.9	17.4	17.5	17.9	18.5	17.4	17.9	18.0	18.4	19.0

Maximum UGR = 19.2

POLAR GRAPH



Maximum Candela = 6017.548 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.)