



IES INDOOR REPORT

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

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

[LUMCAT] AXA-8-P14-8TW-S-LVRS-PoE 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10794
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	95.8
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	16596	8731	5895
55	12829	5067	3590
65	9412	3233	2655
75	6229	1920	1454
85	4423	687	531

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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	5998.096	5998.096	5998.096	5998.096	5998.096
5	5823.375	5823.375	5833.302	5855.142	5863.084
10	5674.465	5682.406	5712.188	5763.811	5801.534
15	5330.979	5334.950	5368.703	5428.267	5477.903
20	5096.694	5100.665	5110.592	5152.287	5217.807
25	4540.763	4534.807	4501.054	4489.141	4554.661
30	4040.425	4012.629	3913.355	3810.111	3849.820
35	3601.637	3542.073	3357.425	3148.951	3105.270
40	3141.009	3051.663	2777.668	2452.052	2332.924
45	2821.349	2688.322	2315.054	1898.106	1776.993
50	2275.345	2116.508	1729.342	1387.841	1312.394
55	1792.877	1630.068	1266.728	1076.123	1048.327
60	1336.219	1183.338	937.140	871.620	867.649
65	990.748	861.693	734.623	712.783	726.681
70	667.117	597.626	555.931	546.003	534.091
75	420.919	403.050	379.224	363.340	359.370
80	264.067	254.140	232.300	226.343	224.358
85	123.099	113.172	111.186	109.201	113.172
90	11.913	19.855	23.826	27.797	29.782
95	1.985	9.927	19.855	23.826	27.797
100	3.971	13.898	19.855	23.826	29.782
105	3.971	13.898	21.840	27.797	29.782
110	9.927	21.840	27.797	31.767	31.767
115	11.913	19.855	29.782	33.753	33.753
120	13.898	27.797	33.753	39.709	39.709
125	23.826	33.753	41.695	47.651	45.666
130	29.782	41.695	47.651	49.637	49.637
135	27.797	37.724	45.666	47.651	47.651
140	37.724	47.651	51.622	55.593	51.622
145	45.666	51.622	55.593	59.564	55.593
150	51.622	57.579	59.564	65.520	59.564
155	55.593	59.564	65.520	67.506	61.549
160	55.593	57.579	61.549	67.506	61.549
165	59.564	63.535	69.491	77.433	69.491
170	59.564	59.564	61.549	67.506	63.535
175	61.549	61.549	61.549	67.506	59.564
180	59.564	59.564	59.564	59.564	59.564

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2080.6	N.A.	19.30
0-30	4160.44	N.A.	38.50
0-40	6249.69	N.A.	57.90
0-60	9228.85	N.A.	85.50
0-80	10433.74	N.A.	96.70
0-90	10566.67	N.A.	97.90
10-90	10011.52	N.A.	92.80
20-40	4169.09	N.A.	38.60
20-50	5924.81	N.A.	54.90
40-70	3766.63	N.A.	34.90
60-80	1204.88	N.A.	11.20
70-80	417.41	N.A.	3.90
80-90	132.93	N.A.	1.20
90-110	43.02	N.A.	0.40
90-120	70.45	N.A.	0.70
90-130	105.27	N.A.	1.00
90-150	174.03	N.A.	1.60
90-180	226.98	N.A.	2.10
110-180	183.97	N.A.	1.70
0-180	10793.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	555.15
10-20	1525.46
20-30	2079.83
30-40	2089.26
40-50	1755.72
50-60	1223.44
60-70	787.47
70-80	417.41
80-90	132.93
90-100	20.72
100-110	22.30
110-120	27.44
120-130	34.82
130-140	34.60
140-150	34.17
150-160	28.50
160-170	18.51
170-180	5.95

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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	209	209	209	200	200	200	196
1	220	211	204	197	214	206	200	194	197	192	187	189	185	181	181	178	175	170
2	203	188	177	167	197	184	174	165	177	168	160	170	162	156	163	157	152	148
3	187	169	155	143	182	166	152	142	159	148	139	153	144	136	148	140	133	129
4	173	152	137	125	169	149	135	124	144	132	122	139	129	120	135	125	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	98	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	107	95	86	105	94	86	82
8	131	107	91	80	128	105	90	80	102	89	79	100	87	79	97	86	78	75
9	123	99	84	73	120	97	83	73	95	82	73	93	81	72	90	79	72	68
10	116	92	77	67	113	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

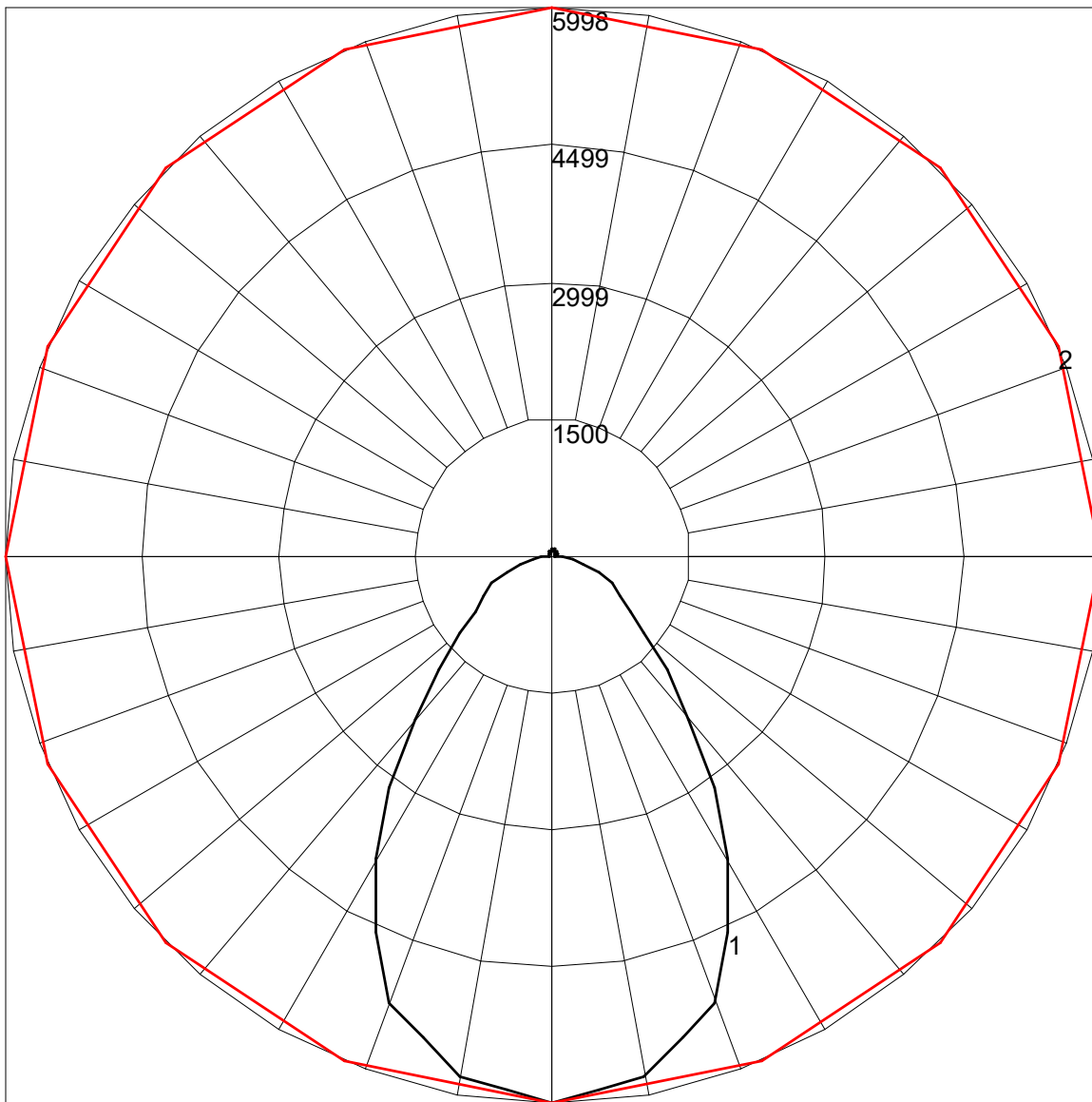
X=2H	Y=2H	14.8	16.2	15.2	16.6	16.9	13.6	15.0	14.0	15.4	15.8
	3H	15.7	17.0	16.1	17.4	17.8	15.4	16.6	15.8	17.0	17.4
	4H	16.0	17.2	16.4	17.6	18.0	15.9	17.1	16.4	17.5	17.9
	6H	16.1	17.2	16.6	17.6	18.1	16.3	17.4	16.8	17.9	18.3
	8H	16.1	17.2	16.6	17.6	18.1	16.5	17.5	17.0	18.0	18.4
	12H	16.1	17.1	16.6	17.6	18.0	16.6	17.6	17.1	18.0	18.5

UGR Viewed Endwise

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 = 5998.096 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.)