



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AXA-8-P7-835-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-P7-835-S-LVRS-PoE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5417
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	47.4
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	8330	4382	2959
55	6439	2543	1802
65	4724	1623	1333
75	3126	964	730
85	2220	345	267

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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	3010.441	3010.441	3010.441	3010.441	3010.441
5	2922.748	2922.748	2927.731	2938.692	2942.678
10	2848.011	2851.997	2866.944	2892.853	2911.787
15	2675.615	2677.608	2694.549	2724.444	2749.357
20	2558.028	2560.021	2565.003	2585.930	2618.814
25	2279.006	2276.017	2259.076	2253.097	2285.982
30	2027.887	2013.936	1964.111	1912.293	1932.223
35	1807.660	1777.764	1685.089	1580.456	1558.533
40	1576.470	1531.628	1394.110	1230.683	1170.893
45	1416.033	1349.267	1161.925	952.659	891.872
50	1141.994	1062.274	867.956	696.557	658.690
55	899.844	818.130	635.770	540.106	526.154
60	670.648	593.917	470.350	437.466	435.473
65	497.256	432.483	368.707	357.745	364.721
70	334.826	299.948	279.021	274.039	268.060
75	211.259	202.290	190.332	182.360	180.367
80	132.535	127.553	116.591	113.602	112.605
85	61.783	56.801	55.804	54.808	56.801
90	5.979	9.965	11.958	13.951	14.948
95	0.997	4.983	9.965	11.958	13.951
100	1.993	6.976	9.965	11.958	14.948
105	1.993	6.976	10.962	13.951	14.948
110	4.983	10.962	13.951	15.944	15.944
115	5.979	9.965	14.948	16.941	16.941
120	6.976	13.951	16.941	19.930	19.930
125	11.958	16.941	20.927	23.916	22.920
130	14.948	20.927	23.916	24.913	24.913
135	13.951	18.934	22.920	23.916	23.916
140	18.934	23.916	25.909	27.902	25.909
145	22.920	25.909	27.902	29.895	27.902
150	25.909	28.899	29.895	32.885	29.895
155	27.902	29.895	32.885	33.881	30.892
160	27.902	28.899	30.892	33.881	30.892
165	29.895	31.888	34.878	38.864	34.878
170	29.895	29.895	30.892	33.881	31.888
175	30.892	30.892	30.892	33.881	29.895
180	29.895	29.895	29.895	29.895	29.895

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1044.25	N.A.	19.30
0-30	2088.12	N.A.	38.50
0-40	3136.72	N.A.	57.90
0-60	4631.96	N.A.	85.50
0-80	5236.69	N.A.	96.70
0-90	5303.4	N.A.	97.90
10-90	5024.78	N.A.	92.80
20-40	2092.46	N.A.	38.60
20-50	2973.66	N.A.	54.90
40-70	1890.47	N.A.	34.90
60-80	604.73	N.A.	11.20
70-80	209.50	N.A.	3.90
80-90	66.72	N.A.	1.20
90-110	21.59	N.A.	0.40
90-120	35.36	N.A.	0.70
90-130	52.83	N.A.	1.00
90-150	87.35	N.A.	1.60
90-180	113.92	N.A.	2.10
110-180	92.33	N.A.	1.70
0-180	5417.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	278.63
10-20	765.63
20-30	1043.87
30-40	1048.6
40-50	881.19
50-60	614.05
60-70	395.23
70-80	209.50
80-90	66.72
90-100	10.40
100-110	11.19
110-120	13.77
120-130	17.47
130-140	17.37
140-150	17.15
150-160	14.30
160-170	9.29
170-180	2.98

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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

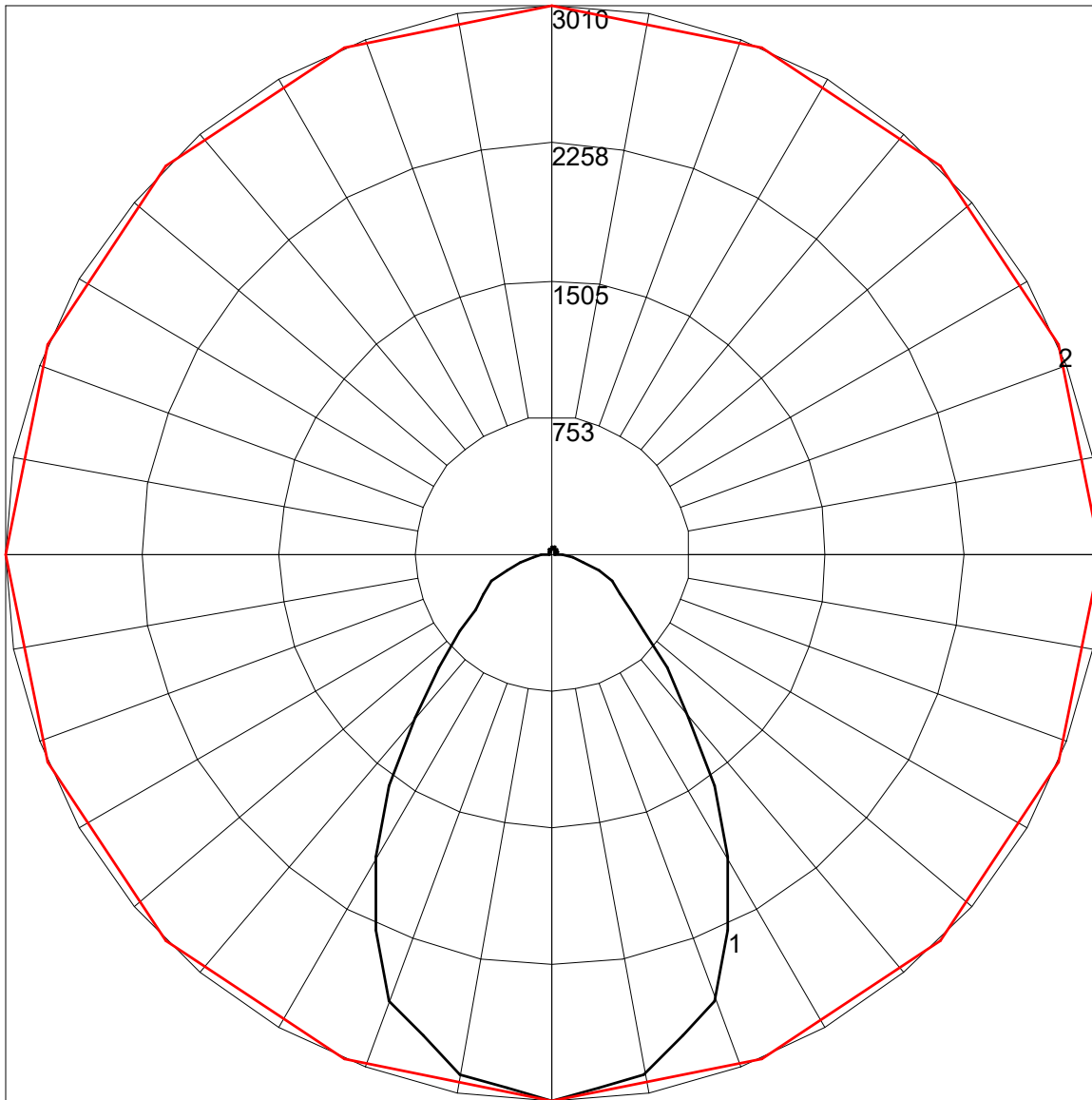
Reflectances

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					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 = 3010.441 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.)