



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ASMS-8-L92-835-A-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 18639.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 03-MAR-2020

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

[LUMINAIRE] 4-56 LED 22" ARRAYS 8' DIRECT/INDIRECT PENDANT MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED CURVED LINEAR RIBBED ACRYLIC LENS

[LUMCAT] ASMS-8-L92/835-A-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9212
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	64.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.90 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.08 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7232	6735	6561
55	5949	5659	5515
65	4703	4717	4594
75	3490	3837	3720
85	2427	3332	3422

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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	3525.541	3525.541	3525.541	3525.541	3525.541
5	3583.575	3587.202	3579.948	3579.948	3579.948
10	3492.897	3482.016	3482.016	3478.389	3478.389
15	3427.609	3416.728	3416.728	3409.474	3405.847
20	3264.390	3257.136	3239.000	3224.492	3220.865
25	3101.170	3097.543	3079.408	3064.899	3064.899
30	2879.917	2869.036	2854.528	2847.273	2847.273
35	2694.935	2691.308	2691.308	2691.308	2691.308
40	2364.869	2364.869	2386.632	2393.886	2390.259
45	2056.566	2071.074	2114.599	2129.108	2129.108
50	1708.364	1741.008	1799.042	1820.804	1820.804
55	1378.298	1425.450	1505.246	1537.890	1534.263
60	1077.249	1131.655	1233.214	1265.858	1265.858
65	808.843	881.385	990.198	1030.096	1026.469
70	573.082	652.878	768.945	801.589	797.962
75	373.591	442.506	565.828	602.099	602.099
80	213.999	275.660	398.981	449.760	457.015
85	94.305	148.711	268.405	322.812	326.439
90	21.763	72.542	152.338	210.372	217.626
95	0.000	18.135	79.796	130.576	141.457
100	0.000	0.000	29.017	72.542	87.050
105	0.000	0.000	0.000	39.898	47.152
110	0.000	0.000	0.000	21.763	25.390
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	7.254	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1295.33	N.A.	14.10
0-30	2710.08	N.A.	29.40
0-40	4373.72	N.A.	47.50
0-60	7317.67	N.A.	79.40
0-80	8832.78	N.A.	95.90
0-90	9099.55	N.A.	98.80
10-90	8761.87	N.A.	95.10
20-40	3078.39	N.A.	33.40
20-50	4693.06	N.A.	50.90
40-70	3893.84	N.A.	42.30
60-80	1515.11	N.A.	16.40
70-80	565.22	N.A.	6.10
80-90	266.76	N.A.	2.90
90-110	109.00	N.A.	1.20
90-120	111.63	N.A.	1.20
90-130	112.05	N.A.	1.20
90-150	112.05	N.A.	1.20
90-180	112.05	N.A.	1.20
110-180	3.04	N.A.	0.00
0-180	9211.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	337.68
10-20	957.65
20-30	1414.76
30-40	1663.64
40-50	1614.67
50-60	1329.28
60-70	949.89
70-80	565.22
80-90	266.76
90-100	88.65
100-110	20.35
110-120	2.62
120-130	0.42
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	223	223	223	223	217	217	217	217	207	207	207	198	198	198	189	189	189	185
1	203	194	186	179	198	190	182	176	181	175	170	174	169	164	167	163	159	155
2	185	170	158	147	180	166	155	145	159	150	141	153	145	138	147	140	134	130
3	170	150	135	123	165	147	133	122	141	129	120	136	126	117	131	122	115	111
4	156	134	118	105	151	131	116	104	126	113	103	121	110	101	117	107	99	95
5	144	120	103	91	139	118	102	91	113	100	89	110	98	88	106	95	87	83
6	133	108	92	80	129	106	91	80	103	89	79	99	87	78	96	85	77	73
7	123	98	82	71	120	97	82	71	94	80	70	91	79	69	88	77	69	65
8	115	90	74	64	112	89	74	63	86	72	63	84	71	62	81	70	62	58
9	108	83	68	57	105	82	67	57	79	66	57	77	65	56	75	64	56	53
10	101	77	62	52	98	75	61	52	73	61	52	72	60	51	70	59	51	48

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UGR TABLE - CORRECTED

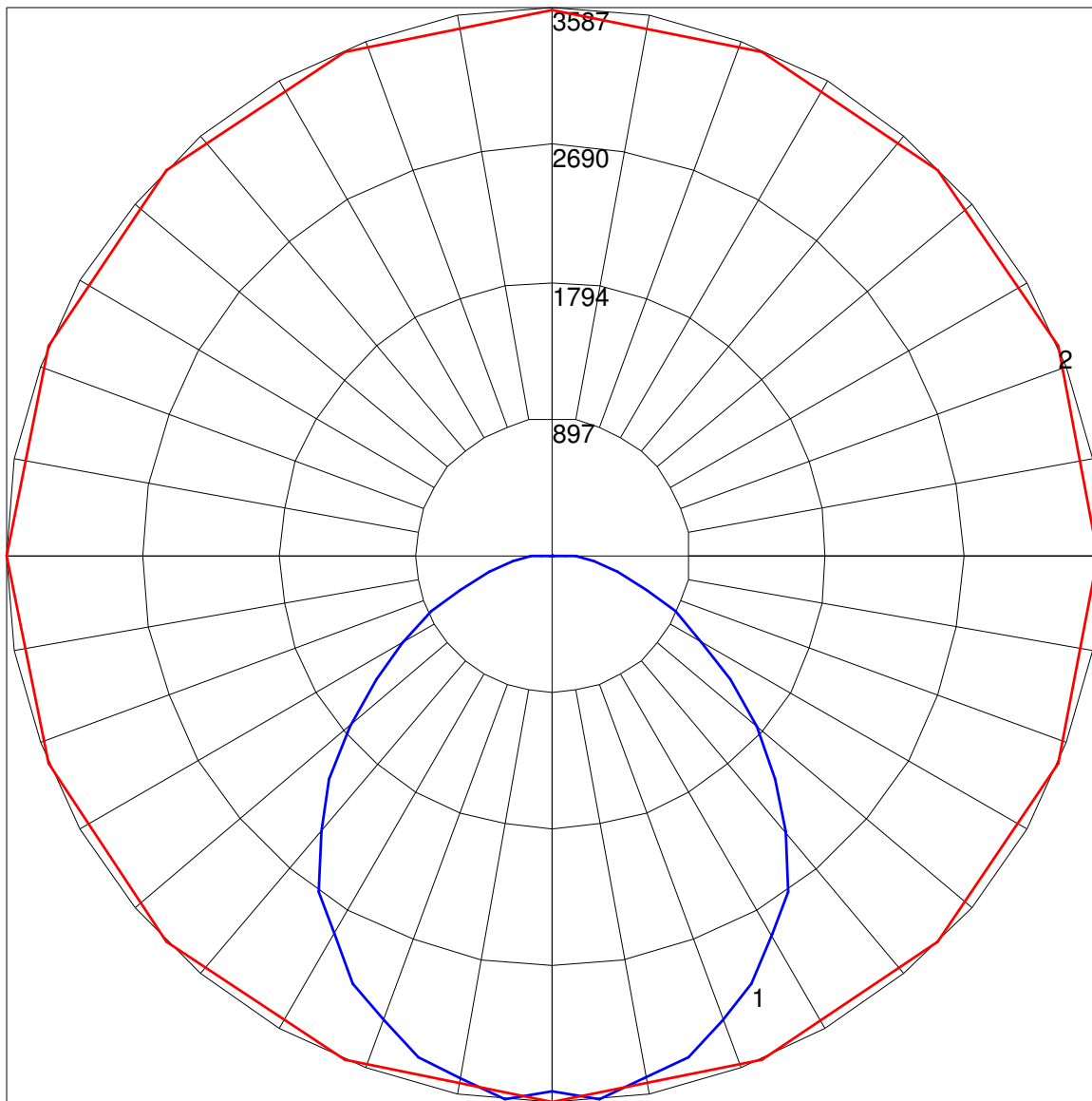
Reflectances

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	16.4	15.1	16.7	17.0	15.9	17.5	16.3	17.8	18.2
	3H	16.1	17.5	16.4	17.8	18.2	17.7	19.1	18.1	19.5	19.8
	4H	16.4	17.8	16.9	18.2	18.6	18.4	19.8	18.8	20.1	20.5
	6H	16.7	17.9	17.1	18.3	18.7	19.2	20.4	19.6	20.8	21.2
	8H	16.7	17.9	17.2	18.3	18.8	19.5	20.7	19.9	21.1	21.5
	12H	16.8	17.9	17.2	18.3	18.8	19.9	21.0	20.3	21.4	21.9
4H	2H	15.5	16.8	15.9	17.2	17.6	16.4	17.7	16.8	18.1	18.5
	3H	17.0	18.1	17.4	18.5	19.0	18.4	19.5	18.8	19.9	20.4
	4H	17.5	18.5	17.9	18.9	19.4	19.3	20.3	19.7	20.7	21.2
	6H	17.8	18.7	18.3	19.2	19.7	20.2	21.1	20.6	21.5	22.0
	8H	17.9	18.7	18.4	19.2	19.7	20.6	21.5	21.1	21.9	22.4
	12H	18.0	18.7	18.5	19.2	19.7	21.1	21.8	21.6	22.3	22.8
8H	4H	17.9	18.8	18.4	19.2	19.7	19.5	20.3	20.0	20.8	21.3
	6H	18.4	19.1	18.9	19.6	20.1	20.6	21.3	21.1	21.8	22.3
	8H	18.5	19.2	19.1	19.7	20.2	21.1	21.7	21.6	22.3	22.8
	12H	18.6	19.2	19.2	19.7	20.3	21.7	22.3	22.2	22.8	23.4
12H	4H	18.0	18.8	18.5	19.3	19.7	19.5	20.3	20.0	20.8	21.2
	6H	18.5	19.2	19.1	19.7	20.2	20.6	21.2	21.1	21.7	22.3
	8H	18.7	19.3	19.3	19.8	20.4	21.2	21.8	21.7	22.3	22.9

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 3587.202 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)