



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ASMS-8-L92-8TW-A-DIM-UNV 4000K\_.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-L92/8TW-A-DIM-UNV 4000k

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9340
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	79.6
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	7333	6829	6653
55	6032	5738	5592
65	4769	4783	4658
75	3539	3890	3772
85	2461	3378	3470

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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	3574.627	3574.627	3574.627	3574.627	3574.627
5	3633.469	3637.146	3629.791	3629.791	3629.791
10	3541.529	3530.496	3530.496	3526.818	3526.818
15	3475.332	3464.299	3464.299	3456.944	3453.266
20	3309.840	3302.485	3284.097	3269.386	3265.709
25	3144.348	3140.670	3122.282	3107.572	3107.572
30	2920.014	2908.982	2894.271	2886.916	2886.916
35	2732.457	2728.779	2728.779	2728.779	2728.779
40	2397.795	2397.795	2419.861	2427.216	2423.538
45	2085.199	2099.910	2144.041	2158.751	2158.751
50	1732.150	1765.248	1824.090	1846.155	1846.155
55	1397.488	1445.297	1526.204	1559.302	1555.625
60	1092.247	1147.411	1250.384	1283.482	1283.482
65	820.105	893.657	1003.985	1044.438	1040.761
70	581.061	661.968	779.651	812.750	809.072
75	378.793	448.667	573.706	610.482	610.482
80	216.978	279.498	404.536	456.022	463.378
85	95.618	150.782	272.142	327.306	330.984
90	22.066	73.552	154.459	213.301	220.656
95	0.000	18.388	80.907	132.394	143.426
100	0.000	0.000	29.421	73.552	88.262
105	0.000	0.000	0.000	40.454	47.809
110	0.000	0.000	0.000	22.066	25.743
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	7.355	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	1313.36	N.A.	14.10
0-30	2747.82	N.A.	29.40
0-40	4434.62	N.A.	47.50
0-60	7419.55	N.A.	79.40
0-80	8955.76	N.A.	95.90
0-90	9226.24	N.A.	98.80
10-90	8883.86	N.A.	95.10
20-40	3121.25	N.A.	33.40
20-50	4758.4	N.A.	50.90
40-70	3948.06	N.A.	42.30
60-80	1536.21	N.A.	16.40
70-80	573.09	N.A.	6.10
80-90	270.48	N.A.	2.90
90-110	110.52	N.A.	1.20
90-120	113.18	N.A.	1.20
90-130	113.61	N.A.	1.20
90-150	113.61	N.A.	1.20
90-180	113.61	N.A.	1.20
110-180	3.08	N.A.	0.00
0-180	9339.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	342.38
10-20	970.98
20-30	1434.45
30-40	1686.8
40-50	1637.15
50-60	1347.79
60-70	963.12
70-80	573.09
80-90	270.48
90-100	89.89
100-110	20.63
110-120	2.66
120-130	0.43
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	217	217	217	217	212	212	212	212	202	202	202	193	193	193	185	185	185	181
1	199	190	182	175	193	185	178	172	177	171	166	170	165	161	163	159	155	151
2	181	166	154	144	176	163	151	142	156	146	138	149	142	135	144	137	131	127
3	166	147	132	120	161	144	130	119	138	126	117	133	123	114	128	119	112	108
4	152	131	115	103	148	128	113	102	123	110	100	119	108	99	115	105	97	93
5	140	117	101	89	136	115	100	89	111	98	87	107	95	86	103	93	85	81
6	130	106	90	78	126	104	89	78	100	87	77	97	85	76	94	84	75	71
7	121	96	80	69	117	95	80	69	92	78	68	89	77	68	86	75	67	64
8	112	88	73	62	109	87	72	62	84	71	61	82	70	61	79	69	60	57
9	105	81	66	56	102	80	66	56	78	65	56	75	64	55	73	63	55	51
10	99	75	61	51	96	74	60	51	72	59	51	70	58	50	68	58	50	47

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**UGR TABLE - CORRECTED**

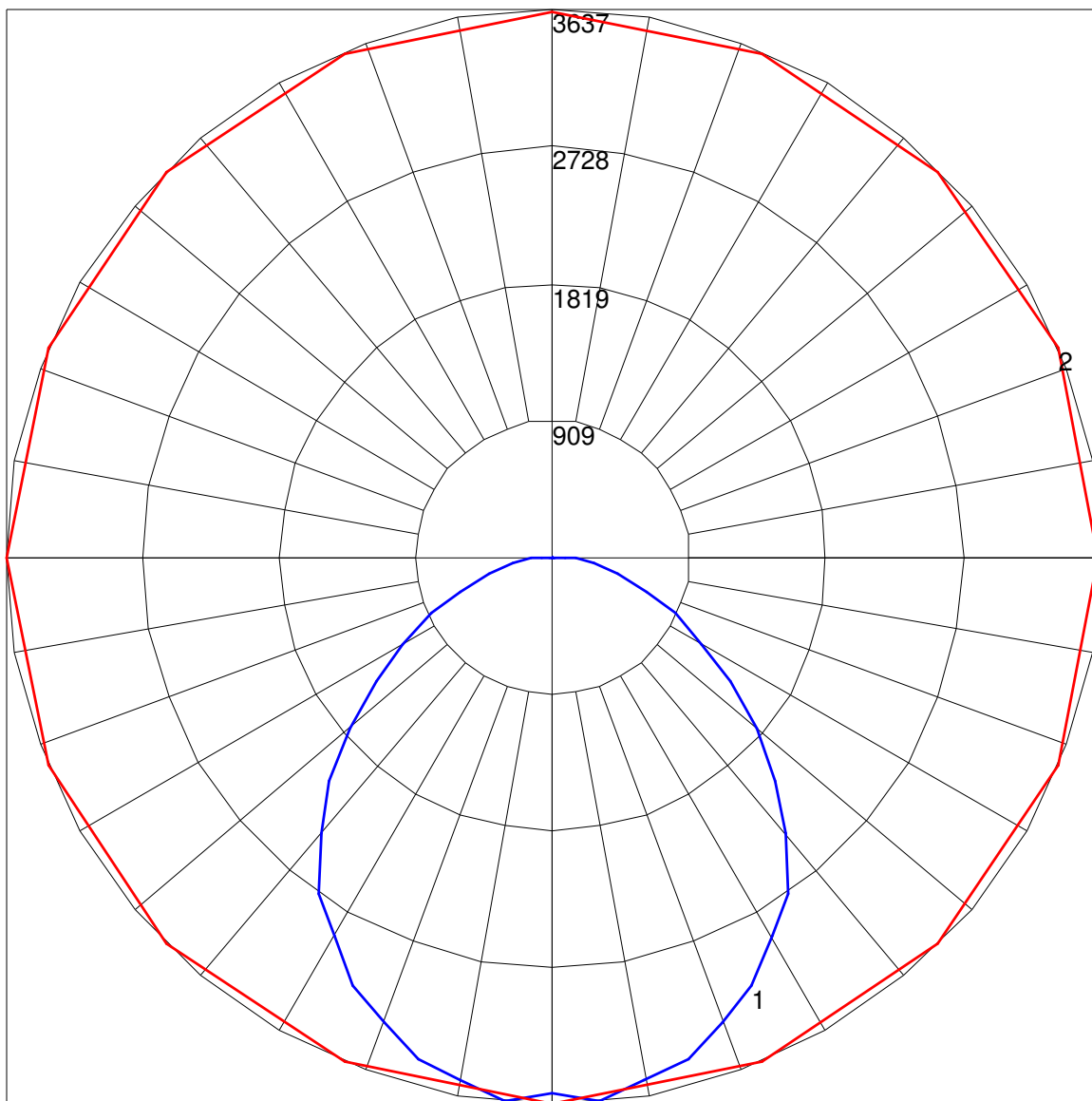
Reflectances

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	17.4	19.0	17.8	19.3	19.7	18.5	20.1	18.9	20.4	20.8
	3H	18.7	20.1	19.1	20.5	20.8	20.3	21.7	20.7	22.0	22.4
	4H	19.1	20.4	19.5	20.8	21.2	21.0	22.4	21.4	22.7	23.1
	6H	19.3	20.6	19.7	20.9	21.4	21.7	23.0	22.2	23.4	23.8
	8H	19.4	20.6	19.8	21.0	21.4	22.1	23.2	22.5	23.7	24.1
	12H	19.4	20.5	19.8	20.9	21.4	22.4	23.6	22.9	24.0	24.4
4H	2H	18.1	19.5	18.5	19.8	20.2	19.0	20.3	19.4	20.7	21.1
	3H	19.6	20.7	20.0	21.2	21.6	21.0	22.1	21.4	22.5	22.9
	4H	20.1	21.1	20.6	21.6	22.0	21.8	22.9	22.3	23.3	23.8
	6H	20.4	21.3	20.9	21.8	22.3	22.7	23.6	23.2	24.1	24.6
	8H	20.5	21.4	21.0	21.8	22.3	23.2	24.0	23.6	24.5	24.9
	12H	20.6	21.3	21.1	21.8	22.3	23.6	24.4	24.1	24.9	25.4
8H	4H	20.5	21.4	21.0	21.8	22.3	22.1	22.9	22.5	23.4	23.9
	6H	21.0	21.7	21.5	22.2	22.7	23.1	23.8	23.6	24.3	24.8
	8H	21.2	21.8	21.7	22.3	22.8	23.7	24.3	24.2	24.8	25.3
	12H	21.3	21.8	21.8	22.3	22.9	24.2	24.8	24.8	25.3	25.9
12H	4H	20.6	21.4	21.1	21.9	22.4	22.1	22.8	22.6	23.3	23.8
	6H	21.2	21.8	21.7	22.3	22.8	23.2	23.8	23.7	24.3	24.8
	8H	21.4	21.9	21.9	22.4	23.0	23.7	24.3	24.3	24.8	25.4

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 3637.146 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.)