



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : ASMS-8-P69-8TW-A-POE 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-P69/8TW-A-PoE 4000k

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6939
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	50.3
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	5448	5074	4943
55	4481	4263	4155
65	3543	3553	3461
75	2629	2890	2802
85	1828	2510	2578

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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	2655.796	2655.796	2655.796	2655.796	2655.796
5	2699.512	2702.245	2696.780	2696.780	2696.780
10	2631.205	2623.008	2623.008	2620.276	2620.276
15	2582.024	2573.827	2573.827	2568.362	2565.630
20	2459.070	2453.605	2439.944	2429.015	2426.282
25	2336.117	2333.384	2319.723	2308.794	2308.794
30	2169.446	2161.249	2150.320	2144.856	2144.856
35	2030.099	2027.367	2027.367	2027.367	2027.367
40	1781.460	1781.460	1797.853	1803.318	1800.586
45	1549.214	1560.143	1592.931	1603.860	1603.860
50	1286.913	1311.504	1355.221	1371.615	1371.615
55	1038.274	1073.794	1133.905	1158.495	1155.763
60	811.493	852.478	928.982	953.573	953.573
65	609.303	663.949	745.918	775.973	773.241
70	431.703	491.814	579.248	603.838	601.106
75	281.427	333.341	426.239	453.562	453.562
80	161.206	207.655	300.553	338.805	344.270
85	71.040	112.024	202.190	243.175	245.907
90	16.394	54.646	114.757	158.473	163.938
95	0.000	13.662	60.111	98.363	106.560
100	0.000	0.000	21.858	54.646	65.575
105	0.000	0.000	0.000	30.055	35.520
110	0.000	0.000	0.000	16.394	19.126
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	5.465	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	975.77	N.A.	14.10
0-30	2041.51	N.A.	29.40
0-40	3294.73	N.A.	47.50
0-60	5512.41	N.A.	79.40
0-80	6653.75	N.A.	95.90
0-90	6854.7	N.A.	98.80
10-90	6600.33	N.A.	95.10
20-40	2318.96	N.A.	33.40
20-50	3535.29	N.A.	50.90
40-70	2933.24	N.A.	42.30
60-80	1141.34	N.A.	16.40
70-80	425.78	N.A.	6.10
80-90	200.95	N.A.	2.90
90-110	82.11	N.A.	1.20
90-120	84.09	N.A.	1.20
90-130	84.40	N.A.	1.20
90-150	84.40	N.A.	1.20
90-180	84.40	N.A.	1.20
110-180	2.29	N.A.	0.00
0-180	6939.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	254.38
10-20	721.40
20-30	1065.74
30-40	1253.22
40-50	1216.33
50-60	1001.35
60-70	715.56
70-80	425.78
80-90	200.95
90-100	66.78
100-110	15.33
110-120	1.98
120-130	0.32
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	233	233	233	233	227	227	227	227	216	216	216	207	207	207	198	198	198	193
1	212	203	195	187	207	198	191	184	190	183	178	182	176	172	174	170	166	162
2	194	178	165	154	188	174	162	152	167	156	148	160	151	144	154	147	140	136
3	177	157	141	129	172	154	139	127	148	135	125	142	131	122	137	128	120	116
4	163	140	123	110	158	137	121	109	132	118	107	127	115	106	122	112	104	100
5	150	125	108	95	146	123	107	95	119	104	93	114	102	92	111	100	91	87
6	139	113	96	84	135	111	95	83	107	93	82	104	91	81	101	89	80	76
7	129	103	86	74	125	101	85	74	98	84	73	95	82	72	92	81	72	68
8	120	94	78	66	117	93	77	66	90	76	66	87	74	65	85	73	65	61
9	112	87	71	60	110	85	70	60	83	69	59	81	68	59	79	67	59	55
10	106	80	65	55	103	79	64	54	77	63	54	75	62	54	73	62	53	50

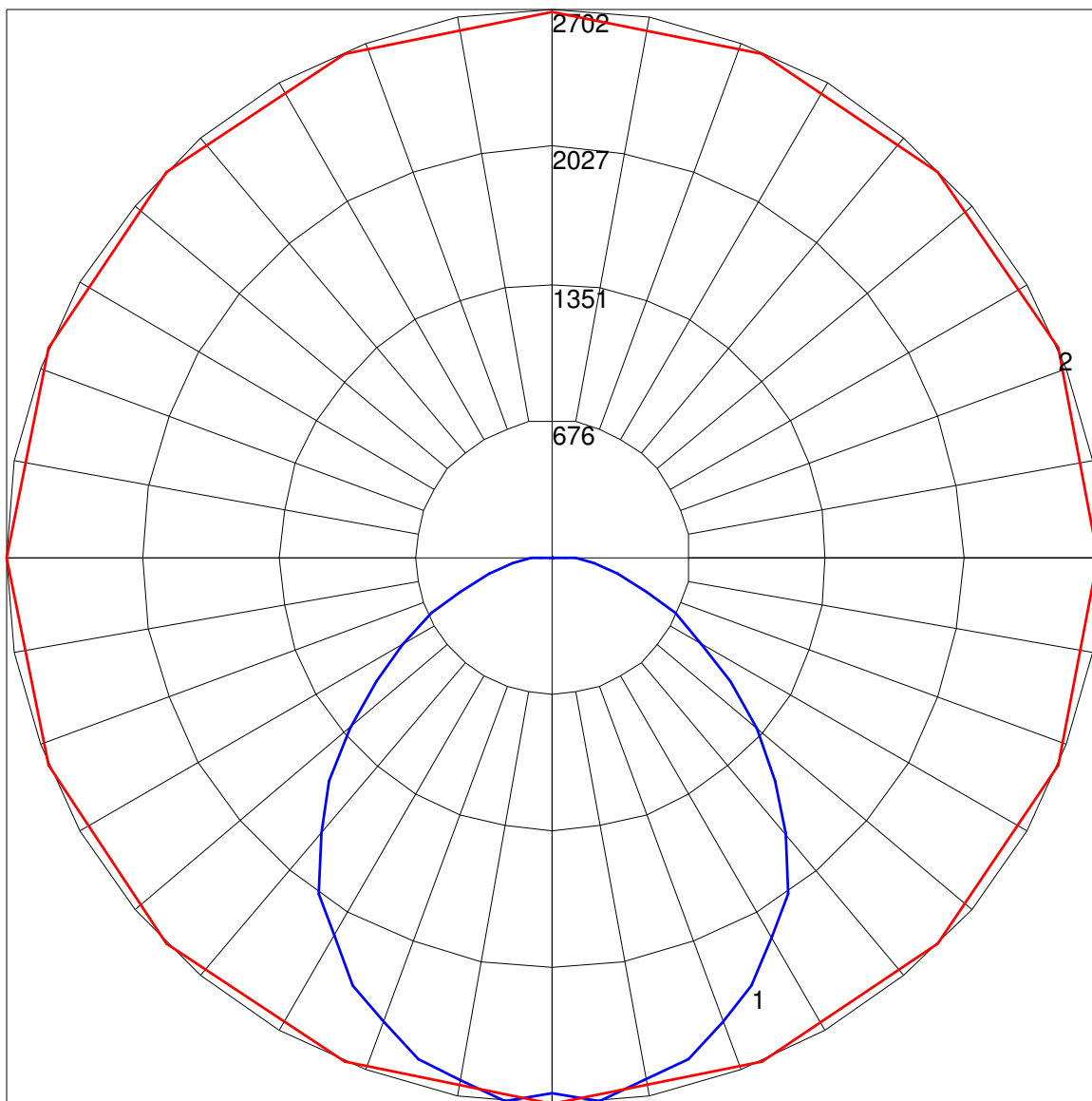
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**UGR TABLE - CORRECTED**

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	13.7	15.3	14.0	15.6	15.9	14.8	16.4	15.2	16.7	17.1
	3H	15.0	16.4	15.3	16.7	17.1	16.6	18.0	17.0	18.4	18.7
	4H	15.3	16.7	15.8	17.1	17.5	17.3	18.7	17.7	19.0	19.4
	6H	15.6	16.8	16.0	17.2	17.6	18.1	19.3	18.5	19.7	20.1
	8H	15.6	16.8	16.1	17.2	17.7	18.4	19.6	18.8	20.0	20.4
	12H	15.7	16.8	16.1	17.2	17.7	18.8	19.9	19.2	20.3	20.8
4H	2H	14.4	15.7	14.8	16.1	16.5	15.3	16.6	15.7	17.0	17.4
	3H	15.9	17.0	16.3	17.4	17.8	17.3	18.4	17.7	18.8	19.2
	4H	16.4	17.4	16.8	17.8	18.3	18.2	19.2	18.6	19.6	20.1
	6H	16.7	17.6	17.2	18.1	18.6	19.1	20.0	19.5	20.4	20.9
	8H	16.8	17.6	17.3	18.1	18.6	19.5	20.4	20.0	20.8	21.3
	12H	16.9	17.6	17.4	18.1	18.6	20.0	20.7	20.5	21.2	21.7
8H	4H	16.8	17.7	17.3	18.1	18.6	18.4	19.2	18.9	19.7	20.2
	6H	17.3	18.0	17.8	18.5	19.0	19.5	20.2	20.0	20.7	21.2
	8H	17.4	18.1	18.0	18.6	19.1	20.0	20.6	20.5	21.2	21.7
	12H	17.5	18.1	18.0	18.6	19.2	20.6	21.2	21.1	21.7	22.3
12H	4H	16.9	17.7	17.4	18.1	18.6	18.4	19.2	18.9	19.7	20.1
	6H	17.4	18.1	18.0	18.6	19.1	19.5	20.1	20.0	20.6	21.2
	8H	17.6	18.2	18.2	18.7	19.3	20.1	20.7	20.6	21.2	21.8

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 2702.245 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.)