



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ASMS-8-P69-835-A-POE_.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-P69/835-A-PoE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6950
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	48.5
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	5456	5081	4950
55	4488	4270	4161
65	3548	3559	3466
75	2633	2895	2806
85	1831	2514	2582

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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	2659.878	2659.878	2659.878	2659.878	2659.878
5	2703.662	2706.399	2700.926	2700.926	2700.926
10	2635.250	2627.040	2627.040	2624.304	2624.304
15	2585.993	2577.783	2577.783	2572.310	2569.574
20	2462.850	2457.377	2443.695	2432.749	2430.012
25	2339.708	2336.971	2323.289	2312.343	2312.343
30	2172.781	2164.572	2153.626	2148.153	2148.153
35	2033.220	2030.483	2030.483	2030.483	2030.483
40	1784.198	1784.198	1800.617	1806.090	1803.354
45	1551.596	1562.542	1595.380	1606.326	1606.326
50	1288.892	1313.520	1357.304	1373.723	1373.723
55	1039.870	1075.445	1135.648	1160.276	1157.540
60	812.741	853.788	930.410	955.039	955.039
65	610.240	664.970	747.065	777.166	774.430
70	432.367	492.570	580.138	604.767	602.030
75	281.860	333.853	426.894	454.259	454.259
80	161.454	207.974	301.015	339.326	344.799
85	71.149	112.197	202.501	243.549	246.285
90	16.419	54.730	114.933	158.717	164.190
95	0.000	13.683	60.203	98.514	106.724
100	0.000	0.000	21.892	54.730	65.676
105	0.000	0.000	0.000	30.102	35.575
110	0.000	0.000	0.000	16.419	19.156
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	5.473	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	977.27	N.A.	14.10
0-30	2044.65	N.A.	29.40
0-40	3299.8	N.A.	47.50
0-60	5520.89	N.A.	79.40
0-80	6663.98	N.A.	95.90
0-90	6865.24	N.A.	98.80
10-90	6610.47	N.A.	95.10
20-40	2322.52	N.A.	33.40
20-50	3540.73	N.A.	50.90
40-70	2937.75	N.A.	42.30
60-80	1143.09	N.A.	16.40
70-80	426.43	N.A.	6.10
80-90	201.26	N.A.	2.90
90-110	82.24	N.A.	1.20
90-120	84.22	N.A.	1.20
90-130	84.53	N.A.	1.20
90-150	84.53	N.A.	1.20
90-180	84.53	N.A.	1.20
110-180	2.29	N.A.	0.00
0-180	6949.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	254.77
10-20	722.51
20-30	1067.38
30-40	1255.15
40-50	1218.2
50-60	1002.89
60-70	716.66
70-80	426.43
80-90	201.26
90-100	66.89
100-110	15.35
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	232	232	232	232	226	226	226	226	216	216	216	206	206	206	197	197	197	193
1	212	202	194	186	206	198	190	183	189	183	177	181	176	171	173	169	166	161
2	193	177	164	153	188	173	161	151	166	156	147	159	151	143	153	146	140	136
3	177	156	141	128	172	153	139	127	147	135	124	141	131	122	136	127	120	115
4	162	139	122	110	158	136	121	109	131	118	107	127	115	105	122	112	104	99
5	149	125	108	95	145	123	106	94	118	104	93	114	102	92	110	99	91	87
6	138	113	96	83	134	111	95	83	107	93	82	104	91	81	100	89	80	76
7	128	103	86	74	125	101	85	74	98	83	73	95	82	72	92	80	72	68
8	120	94	77	66	117	92	77	66	90	75	65	87	74	65	85	73	64	61
9	112	86	70	60	109	85	70	60	83	69	59	80	68	59	78	67	58	55
10	105	80	65	54	103	79	64	54	77	63	54	75	62	54	73	61	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

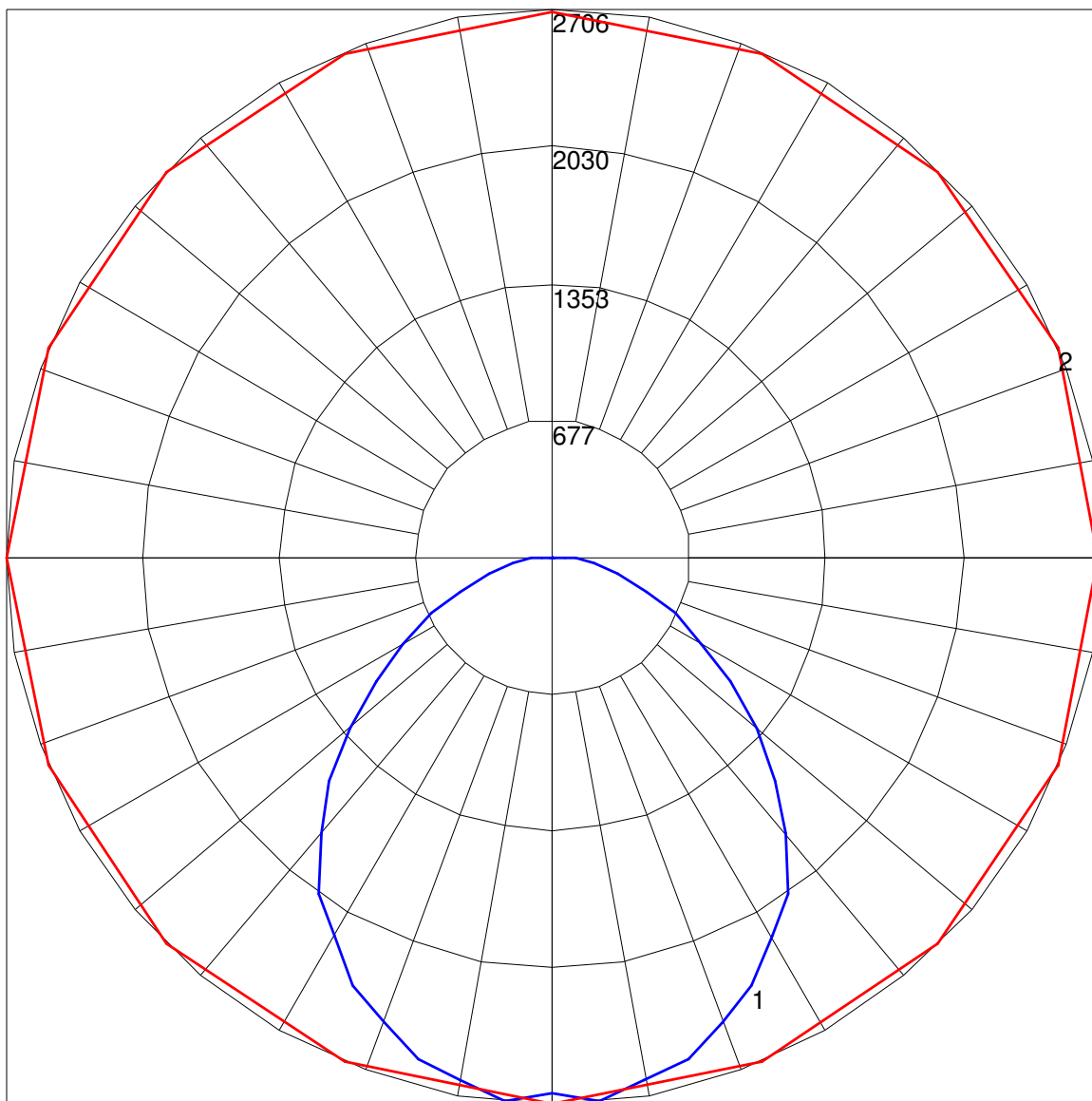
X=2H	Y=2H	13.7	15.3	14.0	15.6	15.9	14.8	16.4	15.2	16.7	17.1
	3H	15.0	16.4	15.3	16.7	17.1	16.6	18.0	17.0	18.4	18.7
	4H	15.3	16.7	15.8	17.1	17.5	17.3	18.7	17.7	19.0	19.4
	6H	15.6	16.8	16.0	17.2	17.6	18.1	19.3	18.5	19.7	20.1
	8H	15.6	16.8	16.1	17.2	17.7	18.4	19.6	18.8	20.0	20.4
	12H	15.7	16.8	16.1	17.2	17.7	18.8	19.9	19.2	20.3	20.8

UGR Viewed Endwise

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 = 2706.399 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.)