



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ASMS-8-L50-835-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-L50/835-A-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4916
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	34
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	3860	3595	3502
55	3175	3020	2944
65	2510	2517	2452
75	1863	2048	1985
85	1295	1778	1826

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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	1881.624	1881.624	1881.624	1881.624	1881.624
5	1912.597	1914.533	1910.661	1910.661	1910.661
10	1864.201	1858.394	1858.394	1856.458	1856.458
15	1829.357	1823.549	1823.549	1819.677	1817.742
20	1742.244	1738.373	1728.694	1720.950	1719.014
25	1655.132	1653.196	1643.517	1635.774	1635.774
30	1537.047	1531.239	1523.496	1519.624	1519.624
35	1438.319	1436.384	1436.384	1436.384	1436.384
40	1262.159	1262.159	1273.774	1277.646	1275.710
45	1097.614	1105.357	1128.587	1136.330	1136.330
50	911.775	929.197	960.170	971.785	971.785
55	735.614	760.780	803.368	820.791	818.855
60	574.941	603.978	658.181	675.604	675.604
65	431.689	470.406	528.481	549.775	547.839
70	305.861	348.449	410.395	427.818	425.882
75	199.390	236.171	301.989	321.347	321.347
80	114.214	147.123	212.941	240.043	243.914
85	50.332	79.369	143.251	172.289	174.224
90	11.615	38.717	81.305	112.278	116.150
95	0.000	9.679	42.588	69.690	75.497
100	0.000	0.000	15.487	38.717	46.460
105	0.000	0.000	0.000	21.294	25.166
110	0.000	0.000	0.000	11.615	13.551
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	3.872	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	691.33	N.A.	14.10
0-30	1446.4	N.A.	29.40
0-40	2334.31	N.A.	47.50
0-60	3905.53	N.A.	79.40
0-80	4714.16	N.A.	95.90
0-90	4856.54	N.A.	98.80
10-90	4676.31	N.A.	95.10
20-40	1642.98	N.A.	33.40
20-50	2504.74	N.A.	50.90
40-70	2078.19	N.A.	42.30
60-80	808.63	N.A.	16.40
70-80	301.66	N.A.	6.10
80-90	142.38	N.A.	2.90
90-110	58.18	N.A.	1.20
90-120	59.58	N.A.	1.20
90-130	59.80	N.A.	1.20
90-150	59.80	N.A.	1.20
90-180	59.80	N.A.	1.20
110-180	1.62	N.A.	0.00
0-180	4916.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.22
10-20	511.11
20-30	755.07
30-40	887.90
40-50	861.77
50-60	709.45
60-70	506.97
70-80	301.66
80-90	142.38
90-100	47.32
100-110	10.86
110-120	1.40
120-130	0.22
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	218	218	218	218	208	208	208	198	198	198	190	190	190	186
1	204	195	187	180	199	190	183	176	182	176	170	174	169	165	167	163	160	155
2	186	171	158	148	181	167	155	146	160	150	142	154	145	138	148	141	135	131
3	170	151	136	124	165	148	134	122	142	130	120	136	126	118	131	123	115	111
4	156	134	118	106	152	132	116	105	127	113	103	122	111	101	118	108	100	96
5	144	120	104	92	140	118	103	91	114	100	90	110	98	89	106	96	87	83
6	133	109	92	80	130	107	91	80	103	89	79	100	88	78	97	86	77	73
7	124	99	83	71	120	97	82	71	94	80	70	91	79	70	89	77	69	65
8	115	90	75	64	112	89	74	64	86	73	63	84	72	63	81	70	62	58
9	108	83	68	58	105	82	67	57	80	66	57	77	65	57	75	64	56	53
10	101	77	62	52	99	76	62	52	74	61	52	72	60	52	70	59	51	48

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UGR TABLE - CORRECTED

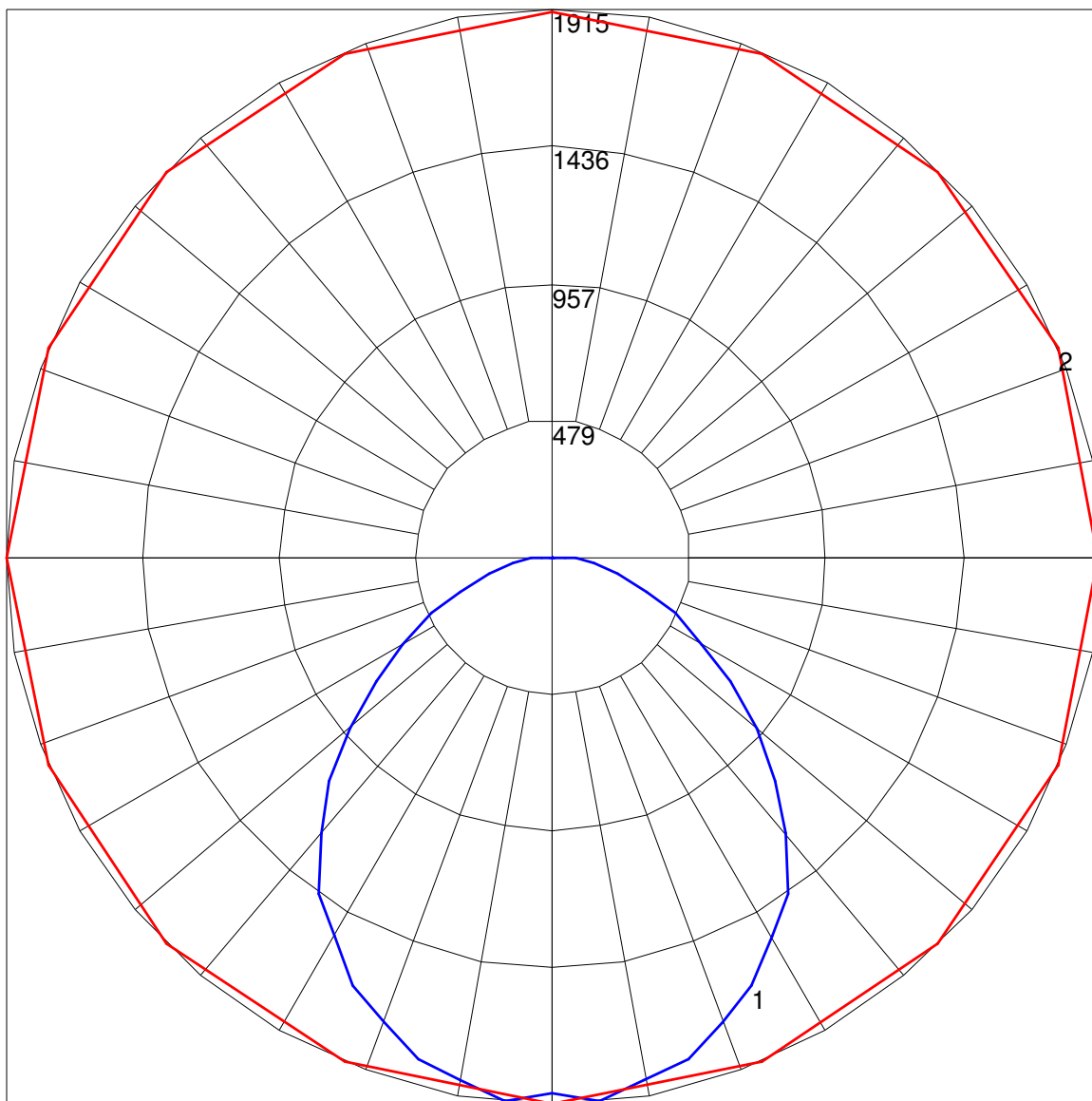
Reflectances

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	15.0	16.6	15.4	16.9	17.3	16.1	17.7	16.5	18.0	18.4
	3H	16.3	17.7	16.7	18.1	18.4	17.9	19.3	18.3	19.6	20.0
	4H	16.7	18.0	17.1	18.4	18.8	18.6	20.0	19.0	20.3	20.7
	6H	16.9	18.2	17.3	18.5	19.0	19.3	20.6	19.7	20.9	21.4
	8H	17.0	18.2	17.4	18.6	19.0	19.7	20.8	20.1	21.3	21.7
	12H	17.0	18.1	17.4	18.5	19.0	20.0	21.2	20.5	21.6	22.0
4H	2H	15.7	17.1	16.1	17.4	17.8	16.6	17.9	17.0	18.3	18.7
	3H	17.2	18.3	17.6	18.8	19.2	18.6	19.7	19.0	20.1	20.5
	4H	17.7	18.7	18.2	19.2	19.6	19.4	20.5	19.9	20.9	21.4
	6H	18.0	18.9	18.5	19.4	19.9	20.3	21.2	20.8	21.7	22.2
	8H	18.1	19.0	18.6	19.4	19.9	20.8	21.6	21.2	22.1	22.5
	12H	18.2	18.9	18.7	19.4	19.9	21.2	22.0	21.7	22.5	23.0
8H	4H	18.1	19.0	18.6	19.4	19.9	19.7	20.5	20.1	21.0	21.5
	6H	18.6	19.3	19.1	19.8	20.3	20.7	21.4	21.2	21.9	22.4
	8H	18.8	19.4	19.3	19.9	20.4	21.3	21.9	21.8	22.4	22.9
	12H	18.9	19.4	19.4	19.9	20.5	21.8	22.4	22.4	22.9	23.5
12H	4H	18.2	19.0	18.7	19.5	20.0	19.7	20.4	20.2	20.9	21.4
	6H	18.8	19.4	19.3	19.9	20.4	20.8	21.4	21.3	21.9	22.4
	8H	19.0	19.5	19.5	20.0	20.6	21.3	21.9	21.9	22.4	23.0

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1914.533 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.)