



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ASMS-4-L25-835-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] 2-56 LED 22" ARRAYS 4' DIRECT/INDIRECT PENDANT MOUNT LUMINAIRE

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

[LUMCAT] ASMS-4-L25/835-A-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2614
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	19.5
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)	3.90 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	4115	3847	3773
55	3370	3224	3172
65	2645	2677	2642
75	1932	2163	2139
85	1257	1847	1968

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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	1000.318	1000.318	1000.318	1000.318	1000.318
5	1016.784	1017.814	1015.755	1015.755	1015.755
10	991.056	987.969	987.969	986.940	986.940
15	972.532	969.444	969.444	967.386	966.357
20	926.221	924.162	919.017	914.900	913.871
25	879.910	878.880	873.735	869.618	869.618
30	817.132	814.045	809.928	807.870	807.870
35	764.647	763.617	763.617	763.617	763.617
40	670.995	670.995	677.170	679.228	678.199
45	583.519	587.636	599.985	604.102	604.102
50	484.722	493.984	510.450	516.625	516.625
55	391.071	404.450	427.091	436.353	435.324
60	305.653	321.090	349.906	359.168	359.168
65	229.497	250.080	280.954	292.274	291.245
70	162.603	185.244	218.176	227.439	226.409
75	106.001	125.554	160.545	170.836	170.836
80	60.719	78.214	113.205	127.613	129.671
85	26.757	42.194	76.156	91.593	92.622
90	6.175	20.583	43.224	59.690	61.748
95	0.000	5.146	22.641	37.049	40.136
100	0.000	0.000	8.233	20.583	24.699
105	0.000	0.000	0.000	11.320	13.379
110	0.000	0.000	0.000	6.175	7.204
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	2.058	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	367.53	N.A.	14.10
0-30	768.94	N.A.	29.40
0-40	1240.98	N.A.	47.50
0-60	2076.28	N.A.	79.40
0-80	2506.17	N.A.	95.90
0-90	2581.86	N.A.	98.80
10-90	2486.05	N.A.	95.10
20-40	873.45	N.A.	33.40
20-50	1331.58	N.A.	50.90
40-70	1104.82	N.A.	42.30
60-80	429.89	N.A.	16.40
70-80	160.37	N.A.	6.10
80-90	75.69	N.A.	2.90
90-110	30.93	N.A.	1.20
90-120	31.67	N.A.	1.20
90-130	31.79	N.A.	1.20
90-150	31.79	N.A.	1.20
90-180	31.79	N.A.	1.20
110-180	0.86	N.A.	0.00
0-180	2613.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	95.81
10-20	271.72
20-30	401.42
30-40	472.03
40-50	458.14
50-60	377.16
60-70	269.52
70-80	160.37
80-90	75.69
90-100	25.15
100-110	5.77
110-120	0.74
120-130	0.12
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	122	122	122	122	119	119	119	119	114	114	114	109	109	109	104	104	104	102
1	112	107	102	98	109	104	100	97	100	96	93	95	93	90	91	89	87	85
2	102	93	87	81	99	91	85	80	88	82	78	84	80	76	81	77	74	71
3	93	82	74	68	90	81	73	67	78	71	66	75	69	64	72	67	63	61
4	86	73	65	58	83	72	64	57	69	62	56	67	61	55	64	59	55	52
5	79	66	57	50	77	65	56	50	62	55	49	60	54	48	58	52	48	46
6	73	59	50	44	71	58	50	44	56	49	43	55	48	43	53	47	42	40
7	68	54	45	39	66	53	45	39	51	44	38	50	43	38	48	42	38	36
8	63	49	41	35	61	49	40	35	47	40	35	46	39	34	45	38	34	32
9	59	45	37	32	58	45	37	31	44	36	31	42	36	31	41	35	31	29
10	55	42	34	29	54	41	34	29	40	33	28	39	33	28	38	32	28	26

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UGR TABLE - CORRECTED

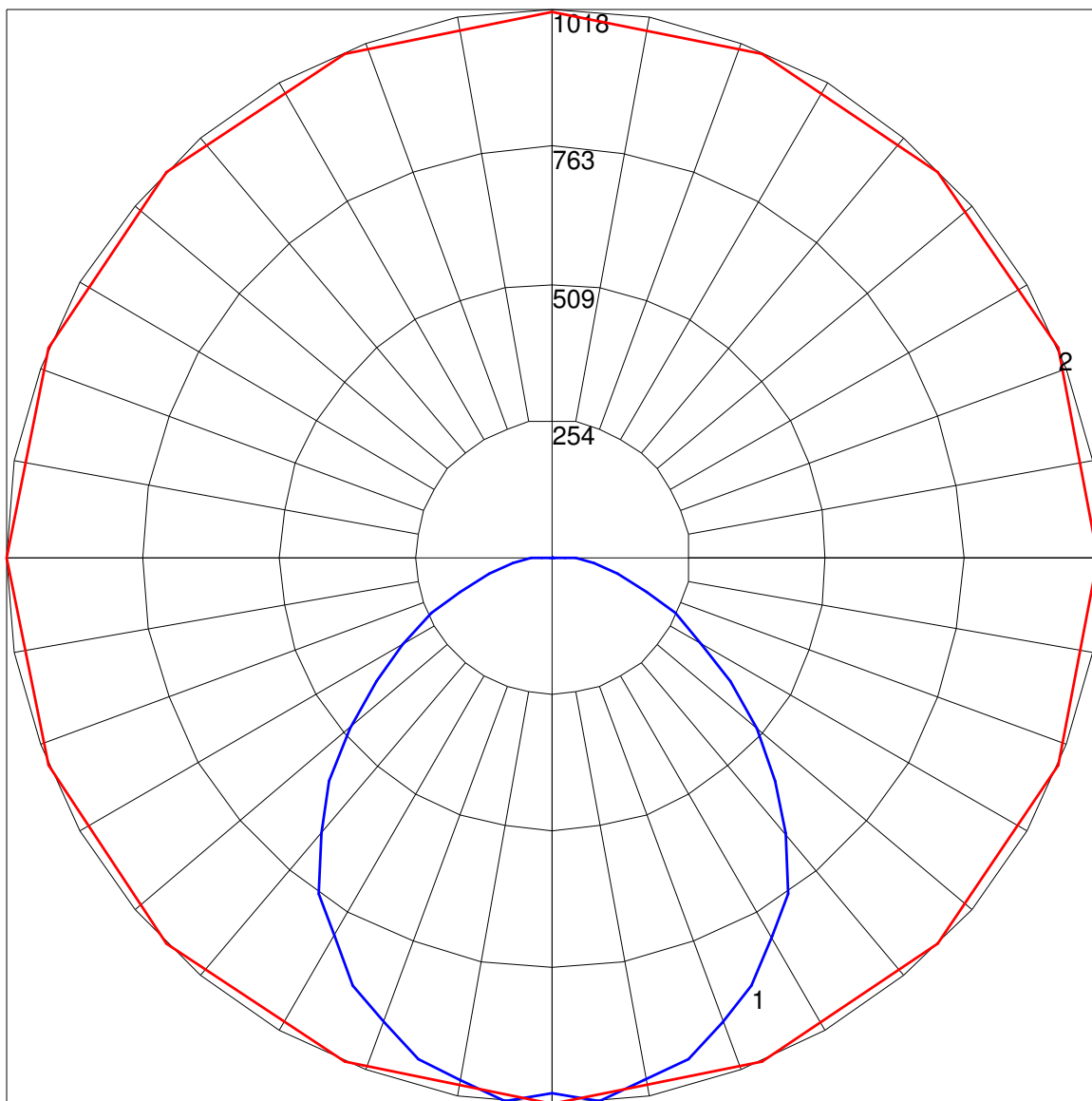
Reflectances

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	14.9	16.5	15.3	16.8	17.2	16.0	17.6	16.4	17.9	18.3
	3H	16.2	17.6	16.6	18.0	18.3	17.8	19.2	18.2	19.5	19.9
	4H	16.6	17.9	17.0	18.3	18.7	18.5	19.9	18.9	20.2	20.6
	6H	16.8	18.1	17.2	18.4	18.9	19.2	20.5	19.6	20.8	21.3
	8H	16.9	18.1	17.3	18.5	18.9	19.6	20.7	20.0	21.2	21.6
	12H	16.9	18.0	17.3	18.4	18.9	19.9	21.1	20.4	21.5	21.9
4H	2H	15.6	17.0	16.0	17.3	17.7	16.5	17.8	16.9	18.2	18.6
	3H	17.1	18.2	17.5	18.7	19.1	18.5	19.6	18.9	20.0	20.4
	4H	17.6	18.6	18.1	19.1	19.5	19.3	20.4	19.8	20.8	21.3
	6H	17.9	18.8	18.4	19.3	19.8	20.2	21.1	20.7	21.6	22.1
	8H	18.0	18.9	18.5	19.3	19.8	20.7	21.5	21.1	22.0	22.4
	12H	18.1	18.8	18.6	19.3	19.8	21.1	21.9	21.6	22.4	22.9
8H	4H	18.0	18.9	18.5	19.3	19.8	19.6	20.4	20.0	20.9	21.4
	6H	18.5	19.2	19.0	19.7	20.2	20.6	21.3	21.1	21.8	22.3
	8H	18.7	19.3	19.2	19.8	20.3	21.2	21.8	21.7	22.3	22.8
	12H	18.8	19.3	19.3	19.8	20.4	21.7	22.3	22.3	22.8	23.4
12H	4H	18.1	18.9	18.6	19.4	19.9	19.6	20.3	20.1	20.8	21.3
	6H	18.7	19.3	19.2	19.8	20.3	20.7	21.3	21.2	21.8	22.3
	8H	18.9	19.4	19.4	19.9	20.5	21.2	21.8	21.8	22.3	22.9

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1017.814 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.)