



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ASMS-4-L25-8TW-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] 2-56 LED 22" ARRAYS 4' DIRECT/INDIRECT PENDANT MOUNT LUMINAIRE

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

[LUMCAT] ASMS-4-L25/8TW-A-DIM-UNV 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2550
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	21.4
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	4014	3752	3681
55	3287	3145	3094
65	2580	2612	2577
75	1885	2110	2087
85	1227	1801	1920

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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	975.827	975.827	975.827	975.827	975.827
5	991.890	992.894	990.886	990.886	990.886
10	966.791	963.780	963.780	962.776	962.776
15	948.720	945.709	945.709	943.701	942.697
20	903.543	901.535	896.516	892.500	891.496
25	858.366	857.362	852.343	848.327	848.327
30	797.126	794.114	790.098	788.091	788.091
35	745.925	744.921	744.921	744.921	744.921
40	654.567	654.567	660.591	662.598	661.594
45	569.232	573.248	585.295	589.311	589.311
50	472.854	481.890	497.953	503.976	503.976
55	381.496	394.547	416.634	425.669	424.665
60	298.169	313.228	341.339	350.374	350.374
65	223.878	243.957	274.075	285.118	284.114
70	158.622	180.709	212.835	221.870	220.866
75	103.406	122.480	156.614	166.654	166.654
80	59.232	76.299	110.433	124.488	126.496
85	26.102	41.161	74.291	89.350	90.354
90	6.024	20.079	42.165	58.228	60.236
95	0.000	5.020	22.087	36.142	39.154
100	0.000	0.000	8.031	20.079	24.094
105	0.000	0.000	0.000	11.043	13.051
110	0.000	0.000	0.000	6.024	7.028
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	2.008	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	358.53	N.A.	14.10
0-30	750.12	N.A.	29.40
0-40	1210.59	N.A.	47.50
0-60	2025.44	N.A.	79.40
0-80	2444.81	N.A.	95.90
0-90	2518.64	N.A.	98.80
10-90	2425.18	N.A.	95.10
20-40	852.06	N.A.	33.40
20-50	1298.98	N.A.	50.90
40-70	1077.77	N.A.	42.30
60-80	419.36	N.A.	16.40
70-80	156.45	N.A.	6.10
80-90	73.84	N.A.	2.90
90-110	30.17	N.A.	1.20
90-120	30.90	N.A.	1.20
90-130	31.01	N.A.	1.20
90-150	31.01	N.A.	1.20
90-180	31.01	N.A.	1.20
110-180	0.84	N.A.	0.00
0-180	2549.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.47
10-20	265.06
20-30	391.59
30-40	460.47
40-50	446.92
50-60	367.93
60-70	262.92
70-80	156.45
80-90	73.84
90-100	24.54
100-110	5.63
110-120	0.73
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	116	116	116	116	113	113	113	113	108	108	108	103	103	103	98	98	98	96
1	106	101	97	93	103	99	95	92	94	91	88	90	88	85	87	85	83	81
2	97	89	82	76	94	87	81	75	83	78	74	80	75	72	77	73	70	68
3	88	78	70	64	86	77	69	63	73	67	62	71	65	61	68	64	60	58
4	81	70	61	55	79	68	60	54	66	59	53	63	57	53	61	56	52	50
5	75	62	54	47	73	61	53	47	59	52	47	57	51	46	55	50	45	43
6	69	56	48	42	67	55	47	41	54	46	41	52	45	41	50	44	40	38
7	64	51	43	37	62	50	42	37	49	42	36	47	41	36	46	40	36	34
8	60	47	39	33	58	46	38	33	45	38	33	43	37	32	42	36	32	30
9	56	43	35	30	55	42	35	30	41	34	30	40	34	29	39	33	29	27
10	53	40	32	27	51	39	32	27	38	32	27	37	31	27	36	31	27	25

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UGR TABLE - CORRECTED

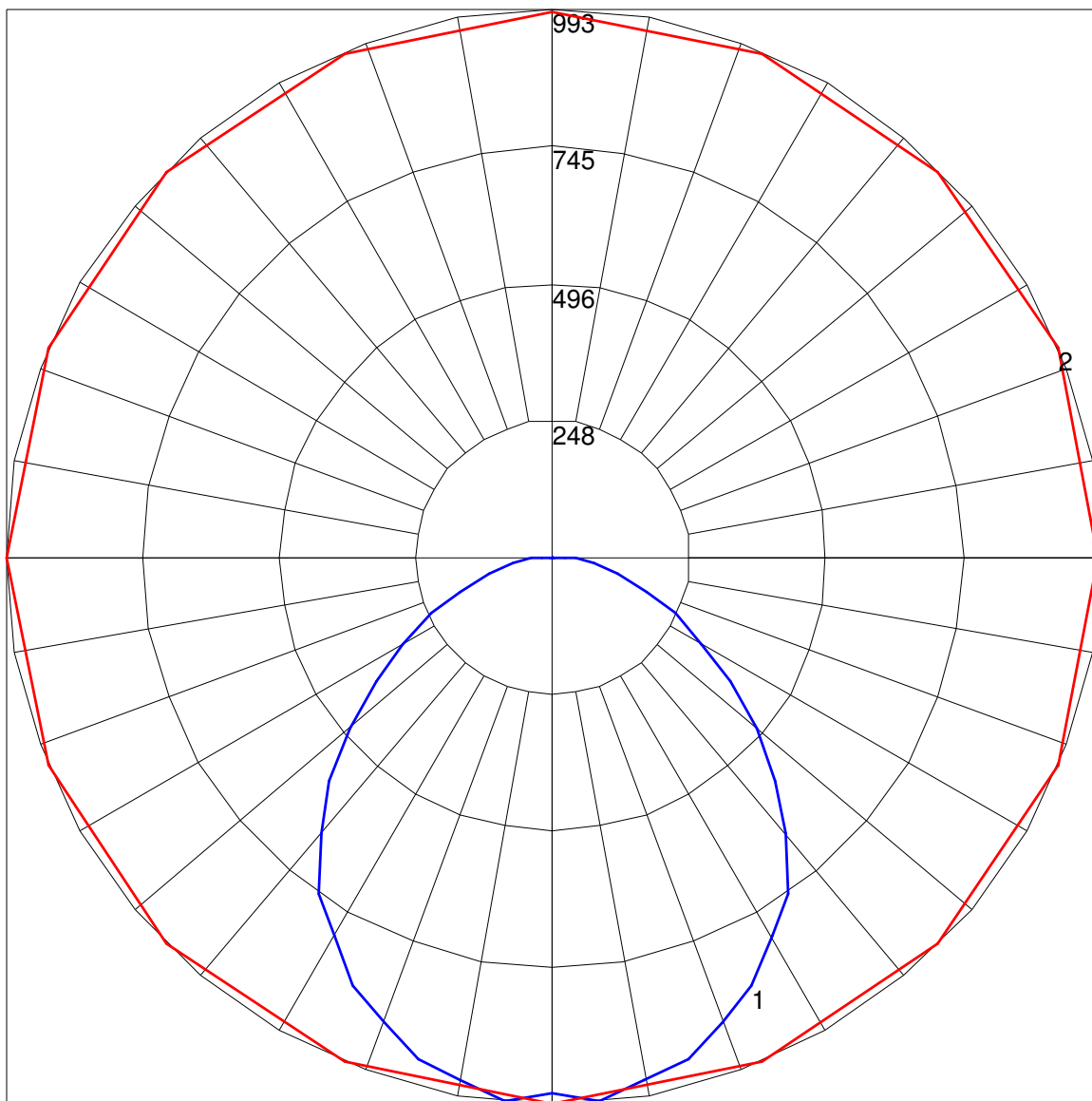
Reflectances

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 = 992.894 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.)