



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ASMS-8-L50-8TW-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] 4-56 LED 22" ARRAYS 8' DIRECT/INDIRECT PENDANT MOUNT LUMINAIRE

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

[LUMCAT] ASMS-8-L50/8TW-A-DIM-UNV 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5100
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	40.7
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	4004	3729	3633
55	3294	3133	3053
65	2604	2611	2544
75	1932	2124	2059
85	1344	1845	1895

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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	1951.873	1951.873	1951.873	1951.873	1951.873
5	1984.003	1986.011	1981.995	1981.995	1981.995
10	1933.800	1927.776	1927.776	1925.768	1925.768
15	1897.655	1891.630	1891.630	1887.614	1885.606
20	1807.290	1803.274	1793.233	1785.201	1783.193
25	1716.926	1714.917	1704.877	1696.845	1696.845
30	1594.431	1588.407	1580.375	1576.359	1576.359
35	1492.018	1490.010	1490.010	1490.010	1490.010
40	1309.281	1309.281	1321.330	1325.346	1323.338
45	1138.593	1146.625	1170.722	1178.755	1178.755
50	945.815	963.888	996.018	1008.066	1008.066
55	763.078	789.183	833.362	851.434	849.426
60	596.406	626.527	682.754	700.827	700.827
65	447.806	487.968	548.211	570.300	568.292
70	317.280	361.458	425.717	443.790	441.782
75	206.834	244.988	313.264	333.345	333.345
80	118.478	152.616	220.891	249.004	253.021
85	52.211	82.332	148.599	178.721	180.729
90	12.049	40.162	84.340	116.470	120.486
95	0.000	10.041	44.178	72.292	78.316
100	0.000	0.000	16.065	40.162	48.194
105	0.000	0.000	0.000	22.089	26.105
110	0.000	0.000	0.000	12.049	14.057
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	4.016	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	717.14	N.A.	14.10
0-30	1500.4	N.A.	29.40
0-40	2421.46	N.A.	47.50
0-60	4051.34	N.A.	79.40
0-80	4890.16	N.A.	95.90
0-90	5037.85	N.A.	98.80
10-90	4850.9	N.A.	95.10
20-40	1704.32	N.A.	33.40
20-50	2598.26	N.A.	50.90
40-70	2155.78	N.A.	42.30
60-80	838.82	N.A.	16.40
70-80	312.93	N.A.	6.10
80-90	147.69	N.A.	2.90
90-110	60.35	N.A.	1.20
90-120	61.80	N.A.	1.20
90-130	62.03	N.A.	1.20
90-150	62.03	N.A.	1.20
90-180	62.03	N.A.	1.20
110-180	1.68	N.A.	0.00
0-180	5099.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	186.95
10-20	530.19
20-30	783.26
30-40	921.05
40-50	893.94
50-60	735.94
60-70	525.90
70-80	312.93
80-90	147.69
90-100	49.08
100-110	11.27
110-120	1.45
120-130	0.23
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	108	104	99	96	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	91	84	78	96	89	83	77	85	80	75	82	77	74	78	75	72	69
3	91	80	72	66	88	78	71	65	75	69	64	72	67	63	70	65	61	59
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	57	53	51
5	77	64	55	49	74	63	55	48	61	53	48	58	52	47	57	51	46	44
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	51	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	43	37	33	31
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	31	27	26

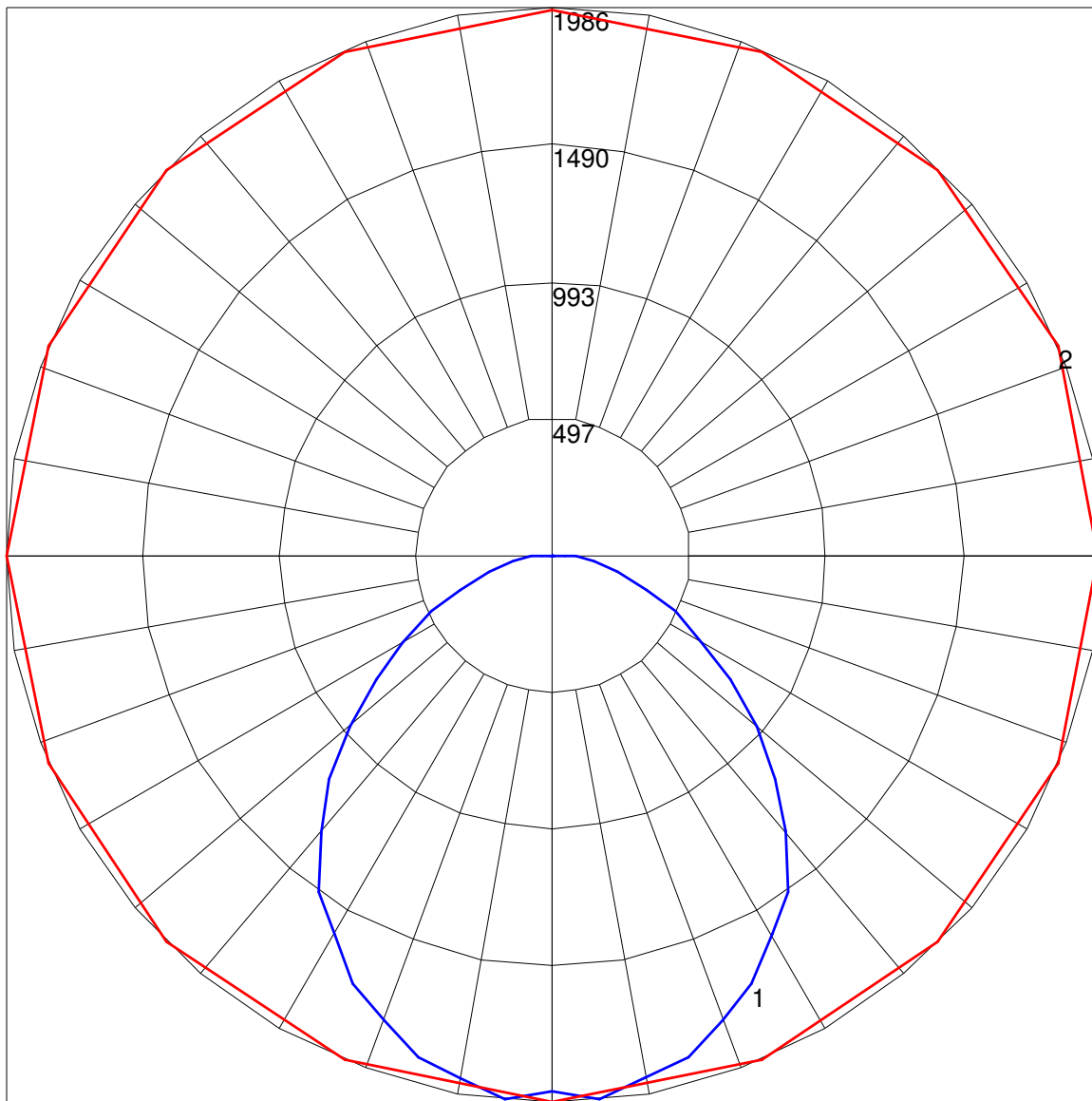
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UGR TABLE - CORRECTED

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	17.4	19.0	17.8	19.3	19.7	18.5	20.1	18.9	20.4	20.8
	3H	18.7	20.1	19.1	20.5	20.8	20.3	21.7	20.7	22.0	22.4
	4H	19.1	20.4	19.5	20.8	21.2	21.0	22.4	21.4	22.7	23.1
	6H	19.3	20.6	19.7	20.9	21.4	21.7	23.0	22.2	23.4	23.8
	8H	19.4	20.6	19.8	21.0	21.4	22.1	23.2	22.5	23.7	24.1
	12H	19.4	20.5	19.8	20.9	21.4	22.4	23.6	22.9	24.0	24.4
4H	2H	18.1	19.5	18.5	19.8	20.2	19.0	20.3	19.4	20.7	21.1
	3H	19.6	20.7	20.0	21.2	21.6	21.0	22.1	21.4	22.5	22.9
	4H	20.1	21.1	20.6	21.6	22.0	21.8	22.9	22.3	23.3	23.8
	6H	20.4	21.3	20.9	21.8	22.3	22.7	23.6	23.2	24.1	24.6
	8H	20.5	21.4	21.0	21.8	22.3	23.2	24.0	23.6	24.5	24.9
	12H	20.6	21.3	21.1	21.8	22.3	23.6	24.4	24.1	24.9	25.4
8H	4H	20.5	21.4	21.0	21.8	22.3	22.1	22.9	22.5	23.4	23.9
	6H	21.0	21.7	21.5	22.2	22.7	23.1	23.8	23.6	24.3	24.8
	8H	21.2	21.8	21.7	22.3	22.8	23.7	24.3	24.2	24.8	25.3
	12H	21.3	21.8	21.8	22.3	22.9	24.2	24.8	24.8	25.3	25.9
12H	4H	20.6	21.4	21.1	21.9	22.4	22.1	22.8	22.6	23.3	23.8
	6H	21.2	21.8	21.7	22.3	22.8	23.2	23.8	23.7	24.3	24.8
	8H	21.4	21.9	21.9	22.4	23.0	23.7	24.3	24.3	24.8	25.4

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 1986.011 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.)