



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AERNG-L44-835-A-SS-EXAM ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 18934.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 20-FEB-2020

[MANUFAC] WILLIAMS LINEAR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4-72 LED 2x4' FOUR APERTURE MEDICAL BED LUMINAIRE

[MORE] EXAM SECTION w/WHITE REFLECTOR & FROSTED ACRYLIC RIBBED

[MORE] LENS w/SANI-SHIELD

[LUMCAT] AMD4AERNG-L44-835-A-SS-EXAM ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7235
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	63.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.93 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6806	6817	7269
55	5764	6228	6814
65	4771	5480	5237
75	3172	3633	3494
85	1400	2196	2482

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	3131.720	3131.720	3131.720	3131.720	3131.720	3131.720	3131.720	3131.720	3131.720
5	3075.941	3070.870	3057.686	3050.587	3048.559	3048.559	3050.587	3061.743	3068.842
10	3048.559	3029.290	2990.752	2955.256	2941.058	2954.242	2978.582	3016.106	3036.389
15	2922.803	2894.407	2822.402	2767.637	2737.212	2764.595	2818.345	2881.223	2905.563
20	2835.586	2776.765	2679.405	2605.372	2586.103	2593.202	2667.236	2758.510	2805.161
25	2555.678	2496.857	2402.540	2356.903	2352.847	2343.719	2384.285	2475.560	2531.338
30	2379.215	2309.238	2229.119	2213.907	2217.964	2208.836	2208.836	2282.870	2349.804
35	2187.539	2120.604	2063.812	2095.250	2105.392	2091.194	2046.571	2095.250	2156.100
40	1949.212	1889.376	1884.306	1952.254	1967.467	1943.127	1869.093	1869.093	1916.759
45	1759.564	1711.899	1762.607	1851.853	1879.235	1835.626	1739.281	1688.573	1721.026
50	1461.402	1435.034	1521.237	1623.667	1657.134	1604.398	1495.883	1406.637	1425.906
55	1208.876	1197.721	1306.236	1400.552	1428.949	1384.326	1272.768	1165.268	1173.381
60	944.181	947.224	1059.795	1097.319	1077.036	1090.220	1032.413	919.841	911.728
65	737.293	752.505	846.822	841.751	809.298	832.624	826.539	722.081	704.840
70	507.079	529.390	577.056	558.801	535.475	545.617	559.815	498.966	477.668
75	300.191	322.502	343.800	330.616	330.616	318.446	322.502	297.148	274.837
80	145.025	159.223	179.506	187.619	193.704	179.506	160.237	139.954	125.756
85	44.623	53.750	69.977	81.133	79.104	75.048	57.807	42.595	34.481
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1089.3	N.A.	15.10
0-30	2216.26	N.A.	30.60
0-40	3526.69	N.A.	48.70
0-60	6023.56	N.A.	83.30
0-80	7155.29	N.A.	98.90
0-90	7234.66	N.A.	100.00
10-90	6944.38	N.A.	96.00
20-40	2437.39	N.A.	33.70
20-50	3787.29	N.A.	52.30
40-70	3274.71	N.A.	45.30
60-80	1131.73	N.A.	15.60
70-80	353.88	N.A.	4.90
80-90	79.37	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	7234.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	290.28
10-20	799.02
20-30	1126.95
30-40	1310.44
40-50	1349.9
50-60	1146.96
60-70	777.85
70-80	353.88
80-90	79.37
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	103	103	103	101
1	111	107	103	99	108	104	101	97	100	97	94	96	94	91	93	91	89	87
2	102	94	87	82	99	92	86	81	88	83	79	85	81	77	82	79	75	73
3	93	83	75	69	91	81	74	68	78	72	67	76	70	66	73	68	65	62
4	85	74	65	59	83	72	64	58	70	63	57	68	62	57	65	60	56	54
5	79	66	57	51	77	65	57	51	63	56	50	61	55	50	59	53	49	47
6	73	60	51	45	71	59	50	44	57	50	44	55	49	44	54	48	43	41
7	68	54	46	40	66	54	45	39	52	45	39	51	44	39	49	43	39	37
8	63	50	41	36	62	49	41	35	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	58	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

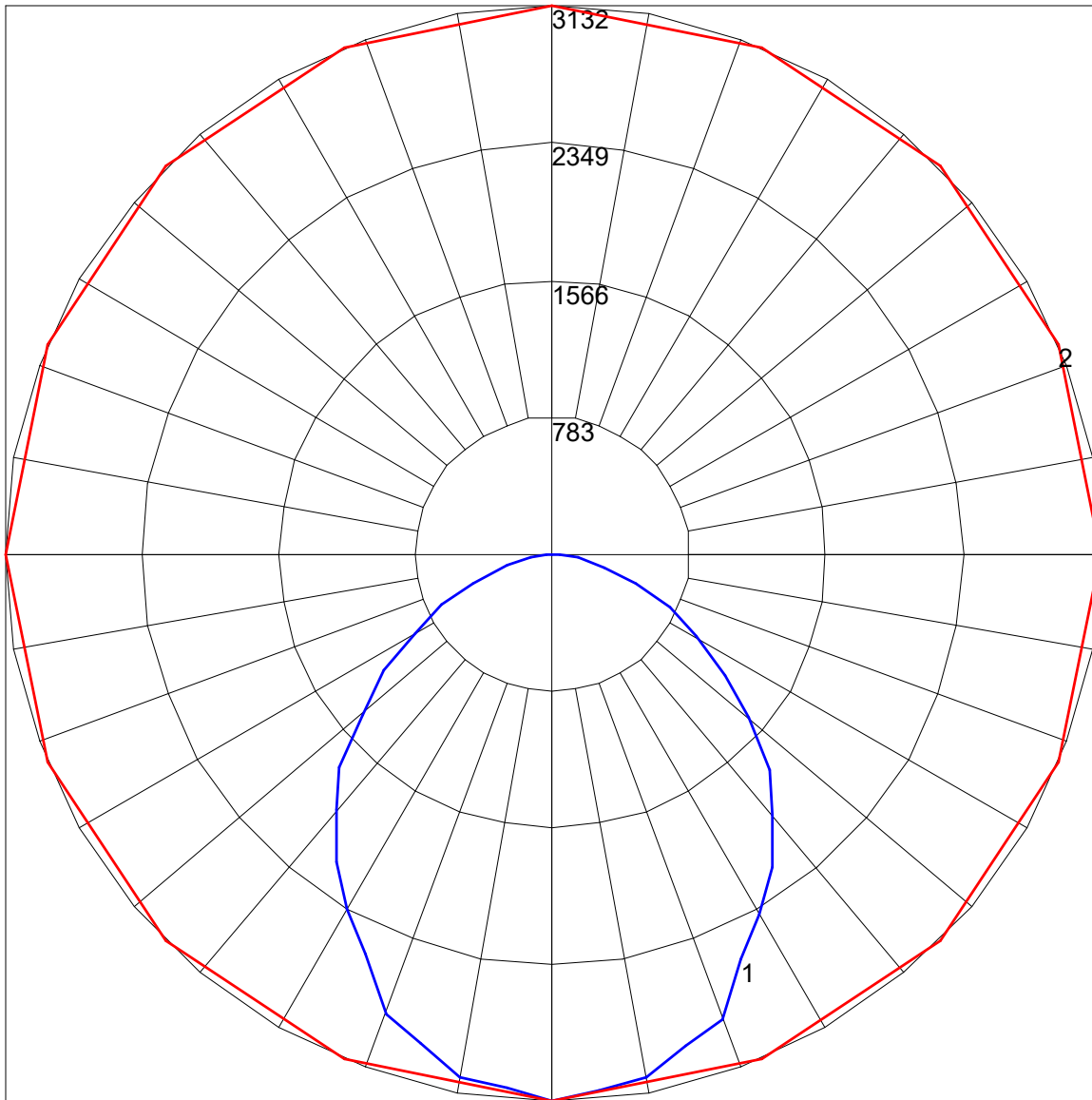
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UGR TABLE - CORRECTED

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	17.7	19.3	18.0	19.6	19.9	18.7	20.3	19.1	20.6	20.9
	3H	19.1	20.6	19.5	20.9	21.2	20.0	21.4	20.3	21.7	22.1
	4H	19.5	20.9	19.9	21.2	21.6	20.3	21.7	20.7	22.0	22.4
	6H	19.8	21.0	20.2	21.4	21.8	20.6	21.8	21.0	22.2	22.6
	8H	19.8	21.0	20.2	21.4	21.8	20.7	21.8	21.1	22.2	22.6
	12H	19.8	20.9	20.2	21.3	21.8	20.7	21.8	21.1	22.2	22.6
4H	2H	18.4	19.7	18.8	20.1	20.5	19.2	20.5	19.6	20.9	21.3
	3H	20.0	21.1	20.4	21.5	21.9	20.7	21.8	21.1	22.2	22.6
	4H	20.5	21.5	20.9	21.9	22.4	21.1	22.1	21.5	22.5	22.9
	6H	20.8	21.7	21.3	22.1	22.6	21.4	22.3	21.9	22.7	23.2
	8H	20.9	21.7	21.3	22.1	22.6	21.5	22.4	22.0	22.8	23.3
	12H	20.9	21.6	21.4	22.1	22.6	21.6	22.4	22.1	22.8	23.3
8H	4H	20.7	21.5	21.2	22.0	22.5	21.3	22.1	21.7	22.5	23.0
	6H	21.1	21.8	21.6	22.3	22.7	21.7	22.3	22.2	22.8	23.3
	8H	21.2	21.8	21.7	22.3	22.8	21.8	22.4	22.3	22.9	23.4
	12H	21.3	21.8	21.8	22.3	22.8	22.0	22.5	22.5	23.0	23.5
12H	4H	20.7	21.5	21.2	21.9	22.4	21.2	22.0	21.7	22.5	22.9
	6H	21.1	21.7	21.7	22.2	22.7	21.7	22.3	22.2	22.7	23.3
	8H	21.3	21.8	21.8	22.3	22.9	21.9	22.4	22.4	22.9	23.5

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 3131.72 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)