



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 18933

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 25-FEB-2020

[MANUFAC] WILLIAMS LINEAR

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

[LUMINAIRE] 2-56 LED 2x4' FOUR APERTURE MEDICAL BED LUMINAIRE

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

[MORE] LENS w/SANI-SHIELD

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4261
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	37
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8655	9412	9939
55	7135	8133	8588
65	5769	6785	5872
75	4085	4085	2619
85	2212	1142	571

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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	1829.047	1829.047	1829.047	1829.047	1829.047	1829.047	1829.047	1829.047	1829.047
5	1822.947	1819.897	1819.897	1819.897	1819.897	1819.897	1818.880	1816.847	1814.813
10	1775.162	1777.195	1783.295	1790.412	1794.479	1794.479	1788.379	1781.262	1779.229
15	1691.792	1695.859	1711.110	1727.377	1734.494	1734.494	1720.260	1707.043	1702.976
20	1644.007	1655.191	1676.542	1701.959	1715.176	1707.043	1683.659	1662.308	1652.141
25	1501.669	1513.869	1541.320	1571.821	1589.105	1571.821	1545.387	1519.970	1503.702
30	1384.748	1404.066	1442.700	1483.368	1505.736	1487.435	1454.901	1418.299	1397.965
35	1263.761	1289.178	1337.980	1374.581	1393.899	1376.615	1338.997	1295.278	1270.878
40	1121.422	1149.890	1202.759	1244.443	1256.644	1236.310	1187.508	1135.656	1103.122
45	1000.435	1032.969	1087.871	1132.606	1148.873	1115.322	1059.404	993.318	952.650
50	829.629	864.197	919.099	965.867	981.117	936.383	883.514	816.412	773.710
55	668.990	705.591	762.527	799.128	805.228	767.610	725.925	652.723	606.971
60	520.551	552.069	609.005	614.088	595.787	589.687	568.336	495.134	454.466
65	398.547	425.998	468.700	444.299	405.664	421.931	419.898	360.929	322.295
70	275.526	298.910	309.077	269.426	242.992	246.042	261.292	228.758	195.207
75	172.839	185.040	172.839	139.288	110.821	114.887	130.138	119.971	96.587
80	90.486	95.570	72.186	39.651	28.468	26.434	39.651	39.651	31.518
85	31.518	29.484	16.267	10.167	8.134	8.134	6.100	6.100	5.084
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	660.29	N.A.	15.50
0-30	1377.37	N.A.	32.30
0-40	2208.41	N.A.	51.80
0-60	3677.21	N.A.	86.30
0-80	4240.78	N.A.	99.50
0-90	4261.46	N.A.	100.00
10-90	4088.88	N.A.	96.00
20-40	1548.12	N.A.	36.30
20-50	2363.34	N.A.	55.50
40-70	1877.32	N.A.	44.10
60-80	563.57	N.A.	13.20
70-80	155.05	N.A.	3.60
80-90	20.68	N.A.	0.50
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	4261.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.58
10-20	487.71
20-30	717.08
30-40	831.04
40-50	815.22
50-60	653.58
60-70	408.52
70-80	155.05
80-90	20.68
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	117	117	117	117	114	114	114	114	109	109	109	105	105	105	100	100	100	98
1	108	104	101	97	106	102	99	96	98	95	93	94	92	90	91	89	87	85
2	99	92	86	81	97	90	85	80	87	82	78	84	80	77	81	78	75	73
3	91	82	74	69	89	80	73	68	77	72	67	75	70	66	72	68	65	63
4	84	73	65	59	82	72	64	58	69	63	58	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	59	51	45	70	58	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	65	53	45	40	52	45	40	50	44	39	49	43	39	37
8	62	49	41	36	61	49	41	36	48	41	36	46	40	35	45	39	35	33
9	58	45	38	32	57	45	37	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	53	42	34	29	41	34	29	40	34	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

X=2H	Y=2H	18.7	20.3	19.1	20.6	20.9	19.5	21.0	19.8	21.3	21.6
	3H	20.1	21.4	20.4	21.8	22.1	20.4	21.8	20.8	22.1	22.5
	4H	20.5	21.8	20.9	22.1	22.5	20.6	21.9	21.0	22.2	22.6
	6H	20.7	21.9	21.1	22.3	22.7	20.6	21.8	21.0	22.1	22.5
	8H	20.8	21.9	21.2	22.3	22.7	20.6	21.7	21.0	22.1	22.5
	12H	20.8	21.9	21.2	22.3	22.7	20.5	21.6	21.0	22.0	22.4

UGR Viewed Endwise

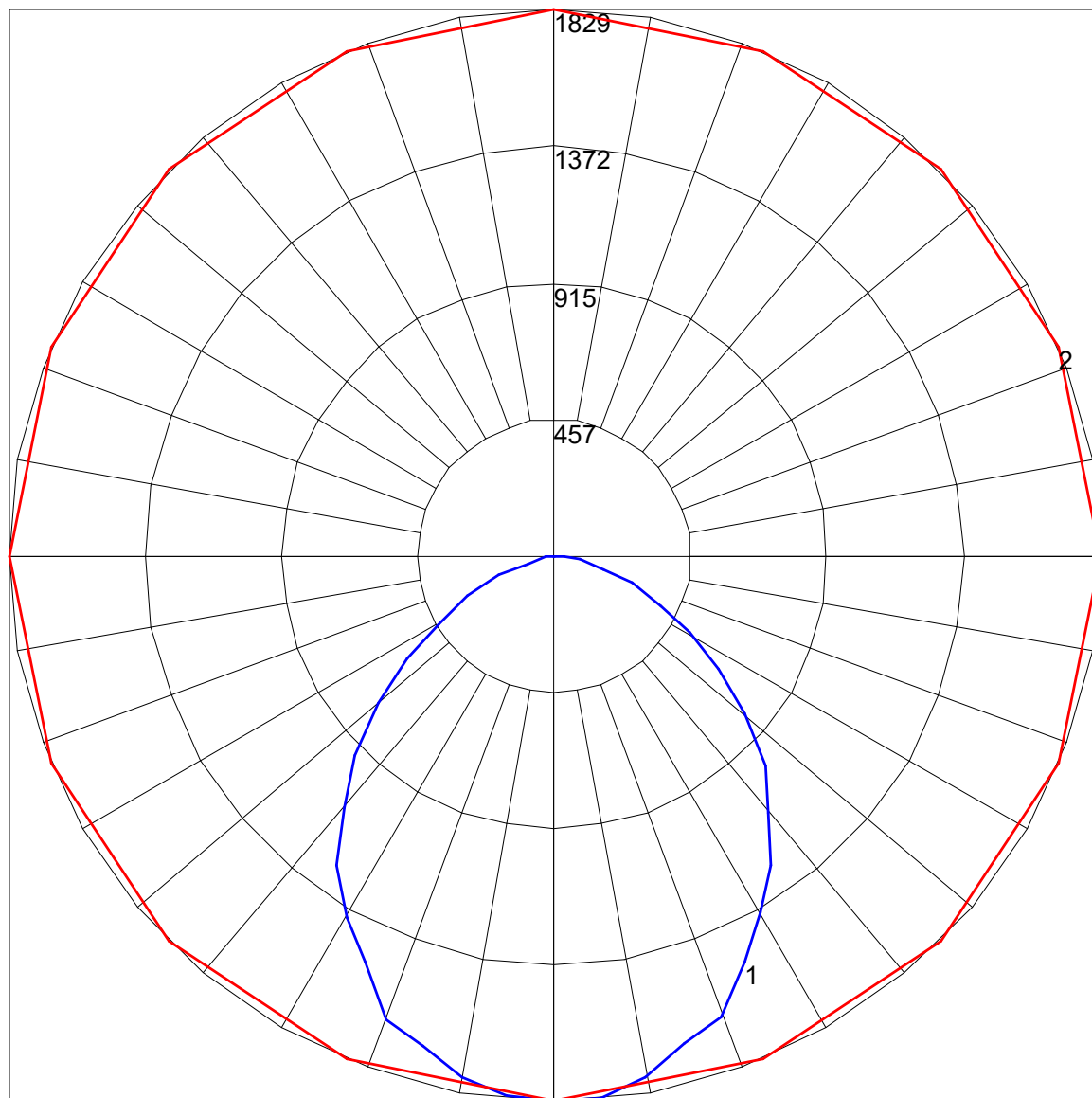
4H	2H	19.4	20.7	19.8	21.0	21.4	19.9	21.2	20.3	21.6	21.9
	3H	20.9	22.0	21.3	22.4	22.8	21.0	22.1	21.4	22.5	22.9
	4H	21.4	22.3	21.8	22.8	23.2	21.2	22.2	21.7	22.6	23.0
	6H	21.7	22.6	22.2	23.0	23.5	21.3	22.1	21.7	22.5	23.0
	8H	21.8	22.6	22.3	23.0	23.5	21.2	22.0	21.7	22.5	22.9
	12H	21.8	22.5	22.3	23.0	23.5	21.2	21.9	21.7	22.4	22.9

8H	4H	21.5	22.3	22.0	22.8	23.2	21.3	22.1	21.8	22.6	23.0
	6H	21.9	22.6	22.4	23.1	23.5	21.4	22.0	21.9	22.5	23.0
	8H	22.0	22.6	22.6	23.1	23.6	21.3	21.9	21.9	22.4	22.9
	12H	22.1	22.6	22.6	23.1	23.7	21.3	21.8	21.9	22.3	22.9

12H	4H	21.5	22.2	22.0	22.7	23.2	21.3	22.0	21.8	22.5	23.0
	6H	21.9	22.5	22.4	22.9	23.5	21.4	21.9	21.9	22.4	22.9
	8H	22.1	22.6	22.6	23.1	23.6	21.4	21.9	21.9	22.4	22.9

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1829.047 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.)