



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AERNG-L44-835-A-SS-NURSE ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 18936.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 25-FEB-2020

[MANUFAC] WILLIAMS LINEAR

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

[LUMINAIRE] 1-28 LED 2x4' FOUR APERTURE MEDICAL BED LUMINAIRE-NURSE

[MORE] SECTION w/WHITE STRIP REFL IN BLACK HOUSING w/CLEAR ACRYLIC

[MORE] LENS w/SANI-SHIELD

[LUMCAT] AMD4AERNG-L44-840-A-SS-NURSE ONLY

### CHARACTERISTICS

Lumens Per Lamp	97 (1 lamp)
Total Lamp Lumens	97
Luminaire Lumens	103
Total Luminaire Efficiency	106 %
Luminaire Efficacy Rating (LER)	9
Total Luminaire Watts	12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	5.24
Spacing Criterion (Diagonal)	4.56
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.63 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	2105	4511
55	371	4449	9022
65	0	8387	7548
75	548	3013	548
85	0	0	0

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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>
<b>0</b>	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06
<b>5</b>	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09
<b>10</b>	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09
<b>15</b>	5.15	5.15	5.15	5.15	5.15	5.15	5.15	5.15	5.15
<b>20</b>	2.06	2.06	2.06	5.15	5.15	5.15	2.06	2.06	2.06
<b>25</b>	2.06	2.06	2.06	9.27	9.27	9.27	2.06	2.06	2.06
<b>30</b>	5.15	5.15	8.24	17.51	18.54	17.51	8.24	5.15	5.15
<b>35</b>	2.06	5.15	15.45	24.72	29.87	24.72	15.45	5.15	2.06
<b>40</b>	2.06	2.06	12.36	29.87	37.08	29.87	12.36	2.06	2.06
<b>45</b>	0.00	3.09	21.63	39.14	46.35	36.05	17.51	3.09	0.00
<b>50</b>	3.09	8.24	26.78	51.50	66.95	51.50	26.78	8.24	3.09
<b>55</b>	3.09	8.24	37.08	66.95	75.19	62.83	32.96	8.24	3.09
<b>60</b>	2.06	9.27	46.35	72.10	75.19	66.95	40.17	9.27	2.06
<b>65</b>	0.00	12.36	51.50	54.59	46.35	46.35	40.17	9.27	0.00
<b>70</b>	0.00	15.45	37.08	21.63	17.51	21.63	26.78	11.33	0.00
<b>75</b>	2.06	12.36	11.33	5.15	2.06	5.15	8.24	8.24	2.06
<b>80</b>	0.00	5.15	2.06	0.00	0.00	0.00	0.00	2.06	0.00
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1.46	1.50	1.40
0-30	4.25	4.40	4.10
0-40	13.30	13.70	12.90
0-60	62.89	64.80	61.20
0-80	102.48	105.60	99.70
0-90	102.79	106.00	100.00
10-90	102.51	105.70	99.70
20-40	11.84	12.20	11.50
20-50	29.01	29.90	28.20
40-70	80.31	82.80	78.10
60-80	39.59	40.80	38.50
70-80	8.87	9.10	8.60
80-90	0.31	0.30	0.30
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	102.79	106.00	100.00

Total Luminaire Efficiency = 106.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.28
10-20	1.18
20-30	2.79
30-40	9.05
40-50	17.17
50-60	32.41
60-70	30.72
70-80	8.87
80-90	0.31
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	126	126	126	126	123	123	123	123	118	118	118	113	113	113	108	108	108	106
1	113	107	101	96	110	104	99	95	100	95	92	95	92	89	91	89	86	84
2	99	88	79	71	96	86	77	70	82	75	69	78	72	67	75	70	65	63
3	87	73	62	53	84	71	61	53	68	59	52	64	57	51	61	55	50	47
4	77	61	49	40	74	59	48	40	56	47	39	54	45	39	51	44	38	35
5	69	52	40	31	66	50	39	31	48	38	30	46	37	30	43	36	30	27
6	62	44	33	25	59	43	32	24	41	31	24	39	30	24	37	30	23	21
7	56	39	28	20	54	38	27	20	36	26	19	34	26	19	33	25	19	16
8	51	34	23	16	49	33	23	16	32	22	16	30	22	16	29	21	15	13
9	47	31	20	13	46	30	20	13	28	19	13	27	19	13	26	18	13	11
10	44	27	18	11	42	27	17	11	26	17	11	25	17	11	24	16	11	9

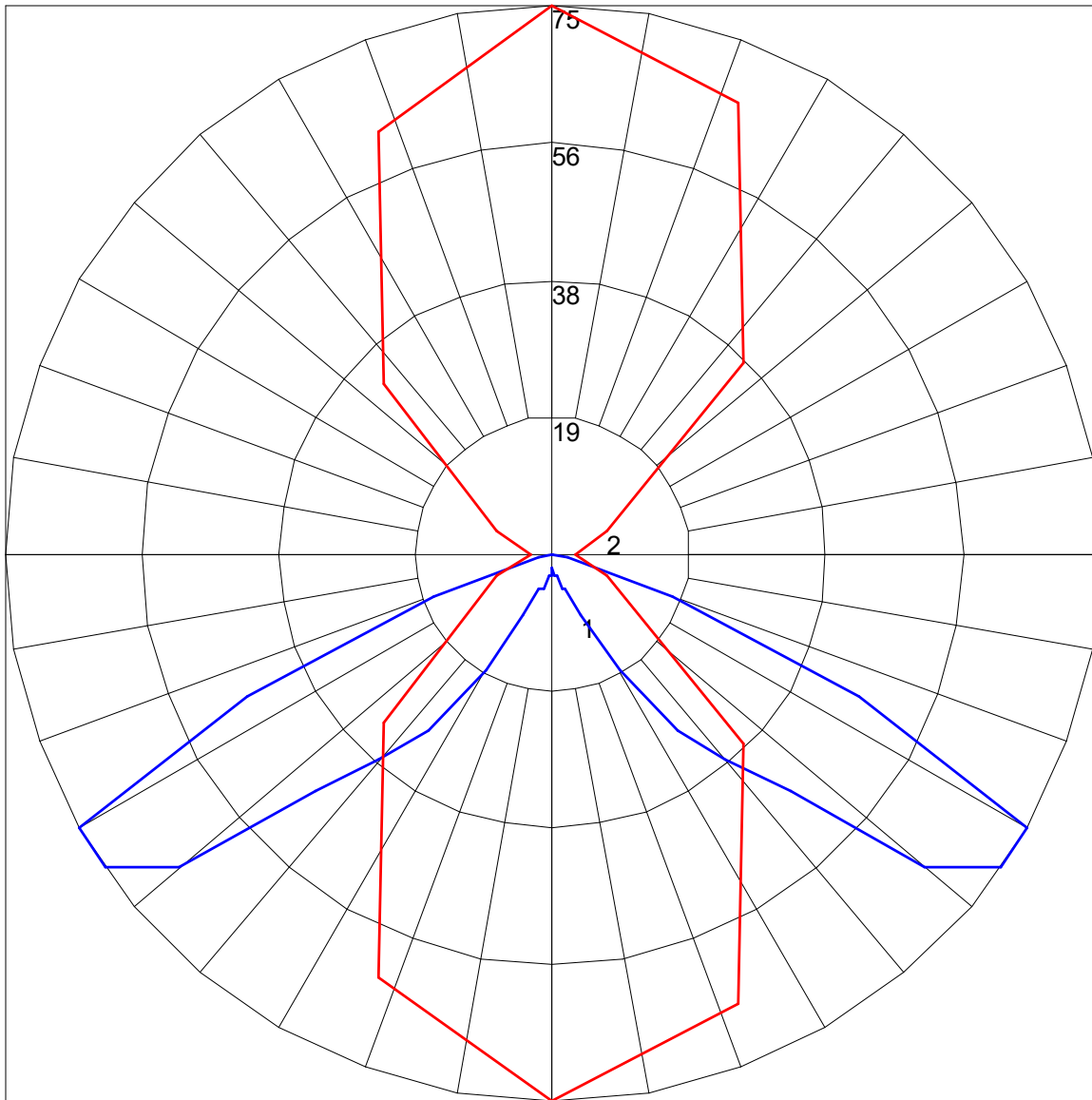
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**UGR TABLE - CORRECTED**

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	8.8	10.8	9.2	11.1	11.4	24.0	26.1	24.4	26.4	26.7
	3H	12.2	14.1	12.6	14.4	14.7	24.9	26.7	25.3	27.1	27.4
	4H	13.5	15.2	13.9	15.6	16.0	24.9	26.6	25.3	27.0	27.4
	6H	13.9	15.5	14.3	15.8	16.2	24.9	26.5	25.3	26.9	27.2
	8H	13.9	15.4	14.3	15.8	16.2	24.9	26.4	25.3	26.8	27.2
	12H	13.9	15.3	14.3	15.7	16.2	24.9	26.3	25.3	26.7	27.2
4H	2H	19.4	21.2	19.8	21.5	21.9	24.6	26.3	25.0	26.7	27.0
	3H	20.7	22.2	21.1	22.6	23.0	25.6	27.1	26.0	27.4	27.8
	4H	21.2	22.6	21.6	23.0	23.4	25.6	26.9	26.0	27.3	27.8
	6H	21.4	22.6	21.8	23.0	23.5	25.6	26.8	26.0	27.2	27.6
	8H	21.4	22.5	21.9	22.9	23.4	25.6	26.7	26.0	27.1	27.6
	12H	21.4	22.4	21.9	22.9	23.3	25.6	26.6	26.1	27.0	27.5
8H	4H	21.7	22.8	22.2	23.2	23.7	25.7	26.8	26.1	27.2	27.7
	6H	22.0	22.9	22.4	23.3	23.8	25.7	26.6	26.2	27.0	27.5
	8H	22.0	22.8	22.5	23.3	23.8	25.7	26.5	26.2	27.0	27.4
	12H	22.0	22.7	22.5	23.2	23.7	25.7	26.4	26.2	26.8	27.4
12H	4H	21.7	22.7	22.2	23.2	23.6	25.7	26.7	26.2	27.1	27.6
	6H	22.0	22.8	22.5	23.2	23.8	25.7	26.5	26.2	26.9	27.5
	8H	22.0	22.7	22.5	23.2	23.7	25.7	26.4	26.2	26.9	27.4

Maximum UGR = 27.8

POLAR GRAPH



Maximum Candela = 75.19 Located At Horizontal Angle = 90, Vertical Angle = 55  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)